



March 17, 2011

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. 21-26531-01

Close out survey

Dear Sir/Madam:

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

Item #1: Please find the enclosed closeout survey for the following location of use on our license.

1221 Sixth Street Suite 204 Traverse City, 49684

Areas of Use to be closed out: Camera Room and, Hot Lab

Please note the following:

- A close-out survey and wipe test was performed on March 9, 2011. 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 January 11, 2011.
- The following radionuclide(s) (Sealed) Cs-137, Ba-133 and Unsealed Tc99m, Tl-201 were used at this facility.
- All residual byproduct material to include waste was fully decayed in storage and disposed, returned to supplier or transferred to an authorized user.
- A current copy of the sealed source leak test results for the sealed sources used at our facility are enclosed for your review.



A Service of Wimuson Medical Center

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.

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

Respectfully Yours,

Michael Schulte, MD Radiation Safety Officer

Enclosures



Sealed Source Inventory

Licensee: Great Lakes Cardiology, PC

Date: 12/14/10

Performed by: James Botti

Calibration

Nuclide Type **Activity Date** Location M/N S/N **Current Activity:** Cs-137 Vial 201.6 uCi 10/01/04 Hot Lab RV137200U 1074-59-11 Current Activity: 174.68 uCi Ba-133 Vial 260.9 uCi 11/01/04 Hot Lab RV133250U 1074-42-5 Current Activity: 175.78 uCi

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading:

RADIATION SAFETY OFFICER:

Sealed Source Inventor Page 1



Sealed Source Leak Test

Licensee: Great Lakes Cardiology, PC

Date: 12/14/10

Performed by: James Botti

Calibration Calibration

Nuclide	Type	Activity	Date	Location	M/N	S/N	
Cs-137	Vial	201.6 uCí	10/01/04	Hot Lab	RV137200U	1074-59-11	_
Current Ac	tivity: 174	.68uCi					
Ba-133	Vial	260.9 uCi	11/01/04	Hot Lab	RV133250U	1074-42-5	
Current Activity: 175.78uCi							

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 x 10 -4 uCi	145 counts/1 min
Ba-133	8.8 x 10 ⁻⁵ uCi	204 counts/1 min
Co-57	1.7 x 10 ⁻⁵ uCi	53 counts/1 min

RADIATION SAFETY OFFICER:

Sealed Source Leak Test Page 1

Close-out Survey

Date performed: March 9, 2011

Performed by: Dave Ingraham, CNMT

Comments: Sealed sources and radioactive trash were removed from these areas

prior to survey and wipe testing.

Instruments

Wipe tests analyzed with a Captinec CRC-15W Well Counter #171150

Instrument: Well Counter

Radionuclide:

Cs-137

MDA for Cs-137

308 dpm's

Date completed:

08/26/09

Conversion factor: 6.36pm/dpm

Area survey performed with the following survey meter:

Manufacturer:

Ludlum

Type:

GM

Model Number:

14C

Serial Number:

210098

Probe Model:

End Window

Annual Calibration Due:

06/21/11

Battery check acceptable:

YES

Operational check acceptable:

N/A

Constancy check acceptable:

YES

Current reading:

2.0 mR/hr

Radionuclides Used

Unsealed

Tc99m, TI-201

Sealed

Ba-133, Cs-137

Last date of byproduct radiopharmaceutical use:

January 11, 2011

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 0.02 mR/hr.

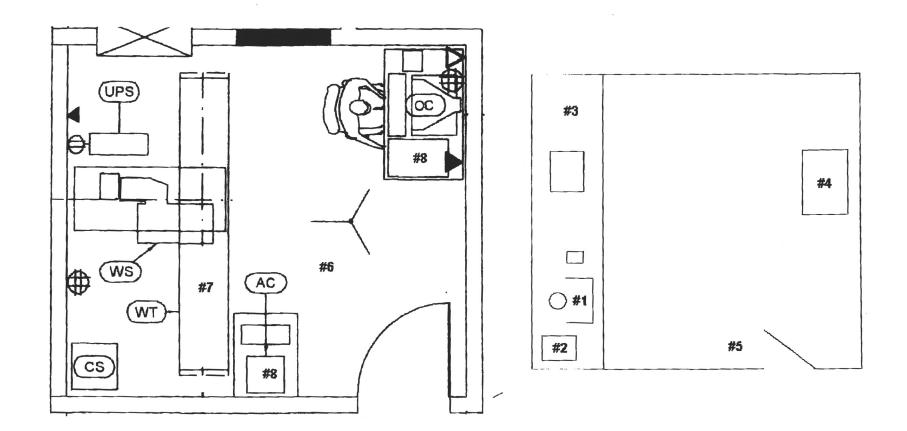
Removable Contamination: No area within the department demonstrated removable contamination excess of 18 dpm's.

Hot Lab, Imaging Area and Stress Rooms

Background: 428 cpm's

Result in dpms
0
18
10
0
8
7
0
5
0
9

Maximum removable contamination = 18 dpms



#1= DOSE PREP AREA #2= WASTE STORAGE AREA #3=PACKAGE RECIEPT #4= INJECTION CHAIR

#5= HOT LAB FLOOR

#6= IMAGING ROOM FLOOR #7= CAMERA #8= ACQUISTION CONSOLE. PROCESSING AREA #9= TREADMILL, BED AND FLOOR #10= FREQUENTLY TOUCHED OBJECTS D. WAWROWICZ
TRAVERSE HEART & VASCULAR
1200 SIXTH ST. SUITE 200
TRAVERSE CITY, MI 49684-2303

ADDRESS SERVICE REQUESTED



U.S. NUCLEAR - REGULATORY COMMISSION
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SUITE 210
LISLE, TL 60532-4352