



Oakwood®

1676 Fort Street  
Trenton, MI 48183

734.362.0900  
734.362.0911 fax

August 21, 2014

United States Nuclear Regulatory Commission  
Region III, Materials Licensing  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

**RE: Removal of an Address of Use  
NRC License No. 21-16656-01**

Dear Sir/Madam:

Please remove the following location of use from Oakwood Hospital – Southshore's NRC license # 21-16656-01.

**1676 Fort Street  
Trenton, Michigan**

We have enclosed the required closeout survey results with a facility diagram, and the most recent sealed source leak test. The sealed sources were transferred to the 5450 Fort Street, Trenton, MI location listed on our NRC license prior to the closeout survey.

If you have any questions, please contact Sharon Updike, MHP, Medical Physics Consultant, at 734-662-3197 or [supdike@mpcphysics.com](mailto:supdike@mpcphysics.com).

Respectfully Yours,

**Lisa Landry**  
**Director of Imaging and Cardiology**  
Oakwood Hospital - Southshore

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**Sealed Source Leak Testing:** No history of leaks from Sealed Sources.

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

**Removable Contamination:** No area within the department demonstrated removable contamination in excess of 76 dpm's.

***Hot Lab and Imaging Room***

See Diagram Attachment

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

**Oakwood Imaging Center - Trenton**

License # 21-16656-01

**CLOSEOUT SURVEY RESULTS**

Date: 8/13/2014

Performed By: Sharon Updike, MHP

		Bkg. 532.6 cpm		Bkg. 0.02 mR/hr
	AREA	cpm	net dpm	mR/hr
1	Hot Lab	563.00	76	0.02
2	Hot Lab	563.00	76	0.02
3	Hot Lab	563.00	76	0.02
4	Hot Lab	0	0 dpm	0.02
5	Hot Lab	0	0 dpm	0.02
6	Hot Lab	0	0 dpm	0.02
7	Hot Lab	0	0 dpm	0.02
8	Hot Lab	0	0 dpm	0.02
9	Imaging Area	0	0 dpm	0.02
10	Imaging Area	546.00	33.5	0.02
11	Imaging Area	546.00	33.5	0.02
12	Imaging Area	546.00	33.5	0.02
13	Imaging Area	0	0 dpm	0.02
14	Imaging Area	0	0 dpm	0.02
15	Imaging Area	0	0 dpm	0.02
16	Imaging Area	547.00	36	0.02
17	Imaging Area	547.00	36	0.02
18	Imaging Area	547.00	36	0.02

**ACTION LEVELS: 2000 dpm****< 0.2 mR/hr****COMMENTS: No evidence of removable contamination.**

## Close-out Survey

**Date performed:** August 13, 2014

**Performed by:** Sharon Updike, MHP

**Comments:** Sealed sources and radioactive waste were removed from our department for transfer to the 5450 Fort Street, Trenton, MI location listed on our NRC license prior to performing the close-out survey.

### Instruments

Wipe tests analyzed with a Capintec Well Counter  
s/n: 900271

Radionuclide: Cobalt-57 MDA for Cobalt-57: 35 dpm  
Date Efficiency performed: 03/05/14 Conversion factor: 1.22 dpm /cpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum  
Type: GM  
Model Number: 14C  
Serial Number: 223530  
Probe Model: 44-7  
Annual Calibration Due: 02/14/15  
Battery check acceptable: YES  
Operational check acceptable: YES  
Current reading: 1.5 mR/hr

### Radionuclides Used

#### Unsealed

Tc99m, I-123

#### Sealed

Co-57, Ba-133, Cs-137

**Last date of byproduct radiopharmaceutical use:** 07/30/14

**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 Test

Licensee: Oakwood Imaging Center - Trenton

Date: 06/05/14

Performed by: Sharon Updike

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	204 uCi	02/01/06	Hot Lab	IPL	1140-96-11
Current Activity: 168.2 uCi						
Ba-133	Vial	248.4 uCi	01/01/06	Hot Lab	IPL	1159-22-3
Current Activity: 142.6 uCi						
Co-57	Flood	10 mCi	11/01/13	Hot lab	MED3709	1698-023
Current Activity: 5.755 mCi						

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	$2.0 \times 10^{-4}$ uCi	145 counts/1 min
Ba-133	$8.8 \times 10^{-5}$ uCi	204 counts/1 min
Co-57	$1.7 \times 10^{-5}$ uCi	53 counts/1 min

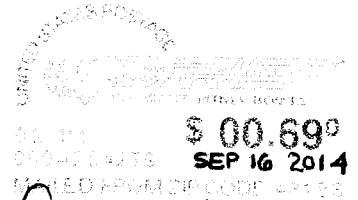
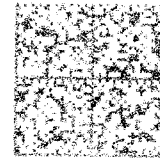
**RADIATION SAFETY OFFICER:** \_\_\_\_\_



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**Oakwood Southshore  
Medical Center**

5450 Fort Street  
Trenton, MI 48183-4625



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