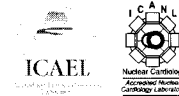




Midwest Cardiovascular Specialists

www. **TheHeartExperts**.com

Djavid Hadian, MD  
Farid Jalinous, MD, FACC, FSCAI  
Sachin Patel, MD, FACC  
William Sarnat, MD, FACC  
Ajazuddin Shaikh, MD, FACC  
Ashfaq Turk, MD, FACC



April 2, 2013

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

**RE: Termination of NRC License No. 13-26679-01  
Cardiology Division, Midwest Medical Group, LLC**

Dear Sir/Madam:

We would like to request the termination of our NRC license number 13-26679-01. We are no longer providing nuclear medicine services. As required, NRC Form 314, the most recent sealed source leak test, and the close-out survey results and diagram are enclosed.

If you have any questions, please contact our medical physics consultant, Sharon Updike, MHP at 517-795-8786.

Respectfully Yours,

William S. Sarnat, M.D.  
Executive Management  
Cardiology Division  
Midwest Medical Group, LLC

**RECEIVED APR 09 2013**



**Sealed Source Leak Test**

Licensee: Midwest Cardiovascular Specialists-Mishawaka

Date: 02/12/13

Performed by: Sharon Updike

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial	218 uCi	09/05/95	Hot Lab	NES356	S356031-060
		Current Activity: 145.7 uCi				
Ba-133	Vial	247.9 uCi	10/01/10	Hot Lab	IPL	1445-27-19
		Current Activity: 212.7 uCi				
Co-57	Flood	10 mCi	04/01/11	Hot Lab	MED3727	1499-159
		Current Activity: 1.743 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:** \_\_\_\_\_

**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 144 dpm's.

***Hot Lab, Stress, Imaging and Injection Areas***

See Diagram Attachment

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

## Close-out Survey

**Date performed:** April 1, 2013

**Performed by:** Sharon Updike, MHP

**Comments:** Sealed sources and radioactive waste were removed from our department for transfer to Saint Joseph Regional Medical Center (NRC License #13-02650-02), 5215 Holy Cross Parkway, Mishawaka, IN prior to performing the close-out survey.

### **Instruments**

Wipe tests analyzed with a Ludlum 2200 Well Counter  
s/n : 125406

Radionuclide: Cobalt-57      MDA for Co-57: 99 dpm  
Date Efficiency performed: 05/21/12      Conversion factor: 2.0 dpm / cpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum  
Type: GM  
Model Number: 14C  
Serial Number: 122302  
Probe Model: 44-7  
Annual Calibration Due: 02/04/14  
Battery check acceptable: YES  
Operational check acceptable: YES  
Current reading: 7.0 mR/hr

### **Radionuclides Used**

#### **Unsealed**

Tc99m, TI-201

#### **Sealed**

Co-57, Ba-133, Cs-137

**Last date of byproduct radiopharmaceutical use:** 03/29/13

**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.

**Cardiology Division, Midwest Medical Group, LLC**

**License # 13-26679-01**

**CLOSEOUT SURVEY RESULTS**

**Date:** 4/1/2013

**Performed By:** Sharon Updike, MHP

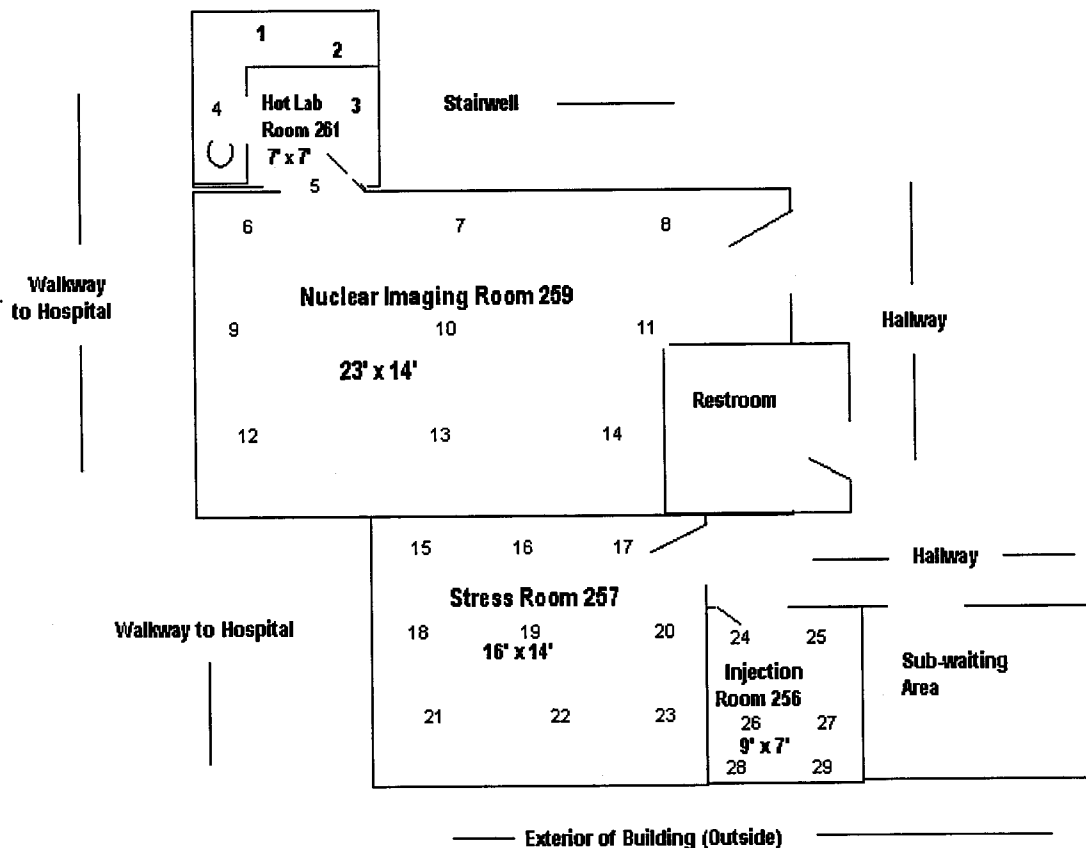
		Bkg. 230 cpm			Bkg. 0.02 mR/hr
	AREA	cpm	net dpm		mR/hr
1	Hot Lab	302.00	144		0.02
2	Hot Lab	268.00	76		0.02
3	Hot Lab	230.00	0 dpm		0.02
4	Hot Lab	232.00	4		0.02
5	Hot Lab	237.00	14		0.02
6	Imaging Area	229.00	0 dpm		0.02
7	Imaging Area	212.00	0 dpm		0.02
8	Imaging Area	211.00	0 dpm		0.02
9	Imaging Area	212.00	0 dpm		0.02
10	Imaging Area	249.00	38		0.02
11	Imaging Area	185.00	0 dpm		0.02
12	Imaging Area	227.00	0 dpm		0.02
13	Imaging Area	216.00	0 dpm		0.02
14	Imaging Area	233.00	6		0.02
15	Stress Room	211.00	0 dpm		0.02
16	Stress Room	233.00	6		0.02
17	Stress Room	228.00	0 dpm		0.02
18	Stress Room	245.00	30		0.02
19	Stress Room	236.00	12		0.02
20	Stress Room	227.00	0 dpm		0.02
21	Stress Room	213.00	0 dpm		0.02
22	Stress Room	246.00	32		0.02
23	Stress Room	219.00	0 dpm		0.02
24	Injection Room	238.00	16		0.02
25	Injection Room	204.00	0 dpm		0.02
26	Injection Room	218.00	0 dpm		0.02
27	Injection Room	262.00	64		0.02
28	Injection Room	228.00	0 dpm		0.02
29	Injection Room	237.00	14		0.02
30					
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41					
42					

**ACTION LEVELS: 2000 dpm**

**< 0.2 mR/hr**

**COMMENTS: No evidence of removable contamination.**

Facility Diagram - Nuclear Department  
Cardiology Division  
Midwest Medical Group, LLC  
611 East Douglas Road, Suite 208  
Mishawaka, IN 46545



SECURITY RELATED INFORMATION - WITHHOLD UNDER 10 CFR 2.390

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE0B-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

### CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

Cardiology Division  
Midwest Medical Group, LLC  
611 East Douglas Road, Suite 208  
Mishawaka, IN 46545

LICENSE NUMBER

13-26679-01

DOCKET NUMBER

030-33963

LICENSE EXPIRATION DATE

February 28, 2021

**A. LICENSE STATUS (Check the appropriate box)**

- This license has expired.
- This license has not yet expired; please terminate it.

**B. DISPOSAL OF RADIOACTIVE MATERIAL**

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

- 1. No radioactive materials have ever been procured or possessed by the licensee under this license.
- 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
  - a. Transfer of radioactive materials to the licensee listed below:  
Saint Joseph Medical Center, 5215 Holy Cross Parkway, Mishawaka, IN. NRC License # 13-02650-02
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:
    - 2. By licensed disposal site:
    - 3. By waste contractor:
- c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

**C. SURVEYS PERFORMED AND REPORTED**

- 1. A radiation survey was conducted by the licensee. The survey confirms:
  - a. the absence of licensed radioactive materials
  - b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
- 2. A copy of the radiation survey results:
  - a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date
- 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
  - a. The results of the latest leak test are attached; and/or
  - b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME Barbara Passig	TITLE Buyer	TELEPHONE (Include Area Code) 574-232-5928	E-MAIL ADDRESS bpassig@midwestcvs.com
Mail all future correspondence regarding this license to: 1011 E. Douglas Rd., Ste. 208 Mishawaka, IN 46545			

**C. CERTIFYING OFFICIAL**  
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE Barbara Passig	SIGNATURE Buyer	DATE 4/03/13
--	--------------------	-----------------

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

## CERTIFICATE OF DISPOSITION OF MATERIALS

PLEASE READ THESE INSTRUCTIONS BEFORE COMPLETING NRC FORM 314.

Subpart E of 10 CFR Part 20 establishes the radiological criteria for license terminations/decommissioning of facilities licensed under 10 CFR Parts 30, 40, 50, 60, 61, 70, and 72, as well as other facilities subject to the Commission's jurisdiction under the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974, as amended.

### INSTRUCTIONS

#### Section B, Item 2.

Licensees should describe the specific radioactive material transfer actions. If radioactive wastes were generated in terminating this license, the licensee should describe the disposal actions taken, including the disposition of low-level radioactive waste, mixed waste, greater-than-Class-C waste, and sealed sources.

#### Section B, Item 2.a.

The information provided concerning the transfer of radioactive material to another licensee should specify the date of the transfer, the name of the licensee recipient, an individual contact name and telephone number for the licensee recipient, and the recipient's NRC or Agreement State license number.

#### Section B, Item 2.b.

For disposal of radioactive materials, licensees should describe the specific disposal method or procedure (e.g., decay-in-storage). For those cases when radioactive materials are disposed of by a licensed disposal site or by a waste contractor, the licensee should specify the name, address, and telephone number of the licensed disposal site operator or waste contractor.

#### Section B, Item 2.c.

"Residual radioactivity," as defined in 10 CFR 20.1003, means radioactivity in 'areas' (structures, materials, soils, etc.) remaining as a result of activities (licensed and unlicensed) under the licensee's control from sources used by the licensee, excluding background radiation. ALARA is defined in 10 CFR 20.1003.

### FILE CERTIFICATES AS FOLLOWS:

#### IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND CERTIFICATES TO:

LICENSING ASSISTANT SECTION  
NUCLEAR MATERIALS SAFETY BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

#### IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND CERTIFICATES TO:

MATERIAL RADIATION PROTECTION SECTION  
U. S. NUCLEAR REGULATORY COMMISSION, REGION IV  
612 E. LAMAR BOULEVARD, SUITE 400  
ARLINGTON, TX 76011-4125

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND CERTIFICATES TO:

MATERIALS LICENSING SECTION  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352



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Company MIDWEST MEDICAL GROUP

Address 611 E DOUGLAS RD STE 208

City MISHAWAKA State IN ZIP 46545-1465

2 Your Internal Billing Reference

3 To Recipient's Name \_\_\_\_\_ Phone \_\_\_\_\_

Company US Nuclear Regulatory Commission

Address Region III

Address 2443 Wavrenville Rd, Ste 210

City Liste State IL ZIP 60532-4352

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 FedEx 2Day Freight Second business day. \*Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.  
 FedEx 3Day Freight Third business day. \*\* Saturday Delivery NOT available.

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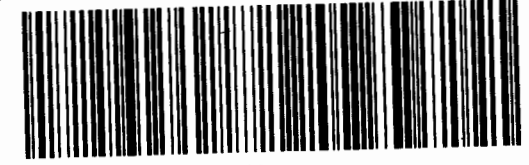


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