

Cardiac Care Consultants, P.C.  
1730 45<sup>th</sup> Street  
Munster, Indiana 46321

September 10, 2015

U.S. Nuclear Regulatory Commission  
Region III  
NRC Materials Licensing Branch  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4351

Re: License #13-32585-01

To Whom It May Concern:

We request termination of our Byproduct Materials license #13-32585-01.

Use of radioactive materials ceased on August 26, 2015. The only unsealed radioactive materials used was Tc-99m, 6 hour half life, and the remaining unsealed waste was decayed through more than ten half lives, surveyed and found at background radiation levels and disposed as non-radioactive trash.

All sealed sources were transferred to Community Hospital, 901 MacArthur Blvd., Munster, IN 46321, under authorization of that hospital's NRC license.

Attached is a copy of our closeout survey, showing that no radioactive material remains at this location.

Radionuclides that have been used at our facility include: Unsealed: Tc-99m, half life 6 hours, for nuclear cardiology imaging (patient use). Sealed sources, Cs-137, Co-57 and Ba-133 calibration and reference sources for equipment quality control. We confirm that sealed sources were leak tested at the required frequency and there have been no leaking sealed sources used or stored at the 1730 45<sup>th</sup> St. facilities.

Thank you.

Please contact us if additional information is needed.



Anuradha Divakaruni, M.D.,

Radiation Safety Officer

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# CERTIFICATE OF DISPOSITION OF MATERIALS

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 FOIA, Privacy, and Information Collections 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, NEOB-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.

LICENSEE NAME AND ADDRESS Cardiac Care Consultants, P.C. 1730 45th Street Munster, IN 46321	LICENSE NUMBER 13-32585-01	DOCKET NUMBER
	LICENSE EXPIRATION DATE September 30, 2015	

### 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:  
Community Hospital, 901 MacArthur Blvd., Munster, IN 46321
  - b. Disposal of radioactive materials:
    - 1. Directly by the licensee:  
Unsealed radioactive materials (Tc-99m only) was disposed by our approved decay-in-storage procedures.
    - 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 Anuradha Divakaruni, M.D.	TITLE Owner	TELEPHONE (Include Area Code) 219-836-9677	E-MAIL ADDRESS
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Mail all future correspondence regarding this license to:  
the above address

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

PRINTED NAME AND TITLE Anuradha Divakaruni, M.D.	SIGNATURE 	DATE 09-10-15
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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.

Nuclear Medicine  
CLOSEOUT SURVEY/WIPE TEST RESULTS

Date: September 10, 2015 Location: Cardiac Care Consultants, 1730 45<sup>th</sup> St., Munster, IN 46321

Instruments used: Survey Meter Ludlum, 3 with thin window g.m. probe # 108046

Calibrated: August 20, 2015

Wipe test Inst. Ludlum 2200, #86557  
Well Counter, Model 243

#146689

Efficiency= 88 %

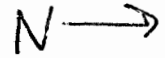
MDA = 66 dpm

Bgnd = .03 mr/hr, 142 cpm

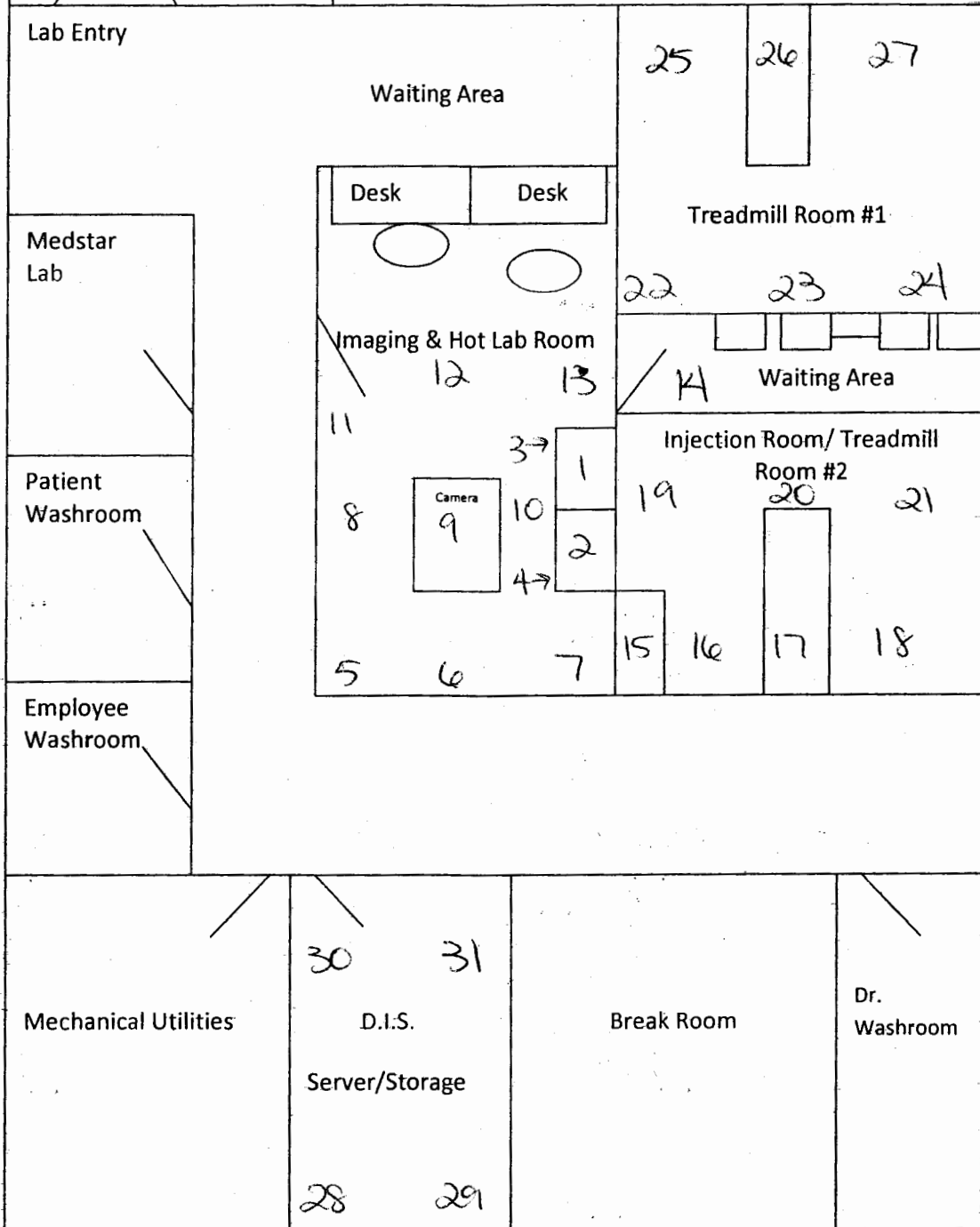
Survey Performed by: Stan W. Buhr  
Stan Buhr

Number	Location (see sketch)	mr/hr	dpm/100cm <sup>2</sup>
1 - 4 = hot lab area			
1	Counter top	.03	0
2	Counter top	.03	0
3	Inside cabinets	.03	3
4	Inside cabinets	.03	0
5 - 13 = Camera Room			
5	Floor	.03	0
6	Floor	.03	1
7	Floor	.03	0
8	Floor	.03	0
9	Camera	.03	5
10	Floor	.03	15
11	Floor	.03	0
12	Floor	.03	0
13	Floor	.03	0
14	Floor, waiting area	.03	0
15 - 21 Treadmill Room #2			
15	table top	.03	9
16	Floor	.03	7
17	Treadmill	.03	9
18	Floor	.03	14
19	Floor	.03	0
20	Floor	.03	3
22 - 27 = treadmill Room#1			
21	Floor	.03	0
22	Floor	.03	0
23	Floor	.03	0
24	Floor	.03	17
25	Floor	.03	1
26	Treadmill	.03	0
27	Floor	.03	7
28 - 31 = D.I.S. storage room			
28	Floor	.03	15
29	Floor	.03	0
30	Floor	.03	0
31	Floor	.03	0

West Side Parking Lot



Field  
South Side Outside Wall



East Side Outside Wall

**Cardiac Care Consultants, P.C.  
1730 45<sup>th</sup> Street Munster, IN 46321**

**13-32585-01 License Physical Inventory: Calibration and Reference Standards**

<b>Radionuclide</b>	<b>Source Description</b>	<b>Total Activity</b>	<b>Source Location</b>
1. Cs-137	N.A.S., MED-3550 #63898	237.6 uCi on 4/1/05	Hot Lab
2. Cs-137	Spectrum Technologies Check Source # 1237	1 uCi on 4/1/05	Hot Lab
3. Cs-137	Spectrum Technologies Check Source # 1597	1 uCi on 7/1/05	On Survey Meter
4. Ba-133	N.A.S., MED-3550 Vial #66518	281.1 uCi on 9/1/05	Hot Lab
5. Co-57	N.A.S., MED-372 #66690	10 mCi on 9/11/05	Storeroom
6. Co-57	RadQual, BMO5-10 #BMO5100277	10 mCi each on 10/8/04	Storeroom
7. Co-57	N.A.S., MED-3550 Vial #123176	5.508 mCi on 5/1/08	Hot Lab
8. Co-57	RadQual, BMO5-10 #BMO5100835-1102	10 mCi each on 1/15/09	Storeroom
9. Co-57	RadQual, BMO5-10 #BMO51011192207	10 mCi each on 8/10/11	Hot Lab

All sources except Cs-137 #1597 sent to Community Hospital License # 13-15882-01  
901 MacArthur Blvd Munster, IN 46321  
Munster Community Hospital RSO: Santosh Kar  
Munster Community Hospital Director of Physics: Jackie Katz

Transportation of sources using Cardinal Health 2715 Main Street Highland, IN 46322 on 8/27/2015

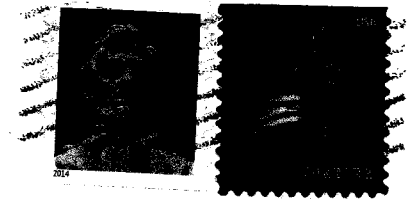
Cs-137 Geiger Meter Check Source #1597 not sent because it was needed for the Closeout Survey

Updated 8/27/2015

Anuradha Divakaruni, M.D.  
Cardiac Care Consultants, P.C.  
1730 45<sup>th</sup> Street  
Munster, IN 46321

SCOTTSDALE, IL 60274

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