

March 13, 2018

U. S. Nuclear Regulatory Commission
Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

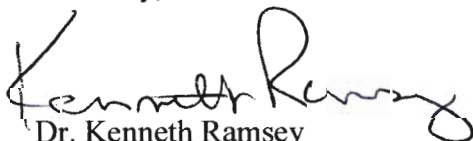
Dear Sir or Madam:

CardioSpecialists Group, Ltd. would like to request the termination our NRC license (#13-32400-01). The necessary documentation for the termination of the license is enclosed. See additional details below:

1. NRC Form 314 is enclosed for your review.
2. Radioactive materials use at the facility ceased as of the end of the work day on February 23, 2018. Tc-99m unsealed sources (totaling less than 1 Ci max) were used for clinical diagnostic imaging of patients. Sealed sources, including Cs-137, Ba-133, and Co-57 were used for equipment calibration. Please refer to the sealed source inventory for quantities of activity for sealed sources.
3. The licensee no longer possesses any radioactive materials.
4. Final status surveys of the areas of use are enclosed for your review.
5. Sealed source inventory, leak tests, and recipient acknowledgement of receipt of sources are enclosed.
6. All radioactive material disposed of via decay-in-storage has been disposed of in accordance with Title 10 of the Code of Federal Regulations (CFR) 35.92.

If there are any questions concerning this license amendment, please contact Mr. Bryce A. Caudle, by email at bcaudle@mpecphysics.com, or by phone at 317-443-9035.

Sincerely,



Dr. Kenneth Ramsey
President and Managing Partner
CardioSpecialists Group, Ltd.
2510 Gettler, Suite 420
Dyer, IN 46311

DYER

24 Joliet Street
Dyer, IN 46311
PH: 219 865 2141 (IN)
PH: 708 895 1650 (IL)

HAMMOND

5454 Hohman Avenue
Hammond, IN 46320
PH: 219 932 2300 (IN)
PH: 708 891 9305 (IL)

MUNSTER

701 Superior Avenue
Munster, IN 46321
PH: 219 922 4200

RECEIVED MAR 22 2018



**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 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

CardioSpecialists Group, Ltd.
2150 Gettler St., Suite 420
Dyer, IN 46311

LICENSE NUMBER

13-32400-01

DOCKET NUMBER

LICENSE EXPIRATION DATE

10/31/2022

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:
Franciscan Health Munster (License # 13-32519-01)
 - 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	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Bryce Caudle	Health Physicist	(317) 443-9035	bcaudle@mpcphysics.com

Mail all future correspondence regarding this license to:

Michael C. Brewer, M.S., Franciscan Health Dyer, 24 Joliet St., Dyer, IN 46311

C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Kenneth J. Ramsey	<i>Kenneth J. Ramsey</i>	3-13-18

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.

2/28/18

Acknowledgement of Receipt

To whom it may concern,

This letter is to serve as acknowledgement of receipt of the following radioactive materials, received on February 28th, 2018:

Co-57	RadQual	BM05-10	BM051517136101	8.6 mCi
Ba-133	N.A. Scientific	MED3550	15976	76 uCi
Cs-137	IPL	GF0008	851-31	0.5 uCi
Cs-137	N.A. Scientific	MED3550	16686	194 uCi

*As stated on most recent inventory 12/19/17.

The most recent leak tests for sources over 100 uCi are enclosed.

Sincerely,



2/28/2018

Michael C. Brewer
 Radiation Safety Officer
 Franciscan Health Dyer/Hammond/Munster
 701 Superior Ave
 Munster, IN 46321

SHIPPING PAPER

Shipped by:

Date: 2-28-18

CARDIOSPECIALIST GROUP
2150 Gettler
Dyer, Indiana 46311

EMERGENCY CONTACT: 708-825-5108

SHIP TO:
Franciscan Health
Munster
701 Superior St
Munster, Indiana 46321

Consignee	Contents	Label			Transport Index	Radionuclide Form					Comments & Other pieces
		White I	Yellow II	Yellow III		(circle applicable)					
Del: FRANCISCAN HEALTH MUNSTER 701 SUPERIOR ST MUNSTER, IN 46321	1 Carton RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 286 MBq GBq		YII		SURVEY	Tc99m liquid salt	I123 solid salt	Tl201 liquid salt	Xe133 inert gas	I131 solid salt	
				0.1		Ga67 liquid salt	In111 liquid organic compd				Co-57 NET W.P.E = 0 DPM'S
Del: FRANCISCAN HEALTH MUNSTER	1 Carton RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 6.8 MBq GBq		UN2915		SURVEY SURFACE = 0.5 mR/h 1 MESH = 0.05 mR/h	Tc99m liquid salt	I123 solid salt	Tl201 liquid salt	Xe133 inert gas	I131 solid salt	
						Ga67 liquid salt	In111 liquid organic compd	CS-137 Co-57 ISA-133			NET W.P.E 8 DPM'S
Del:	1 Carton RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 GBq					Tc99m liquid salt	I123 solid salt	Tl201 liquid salt	Xe133 inert gas	I131 solid salt	
Del:	1 Carton RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 GBq					Tc99m liquid salt	I123 solid salt	Tl201 liquid salt	Xe133 inert gas	I131 solid salt	
Del:	1 Carton RADIOACTIVE MATERIAL, TYPE A PACKAGE, 7, UN2915 GBq					Tc99m liquid salt	I123 solid salt	Tl201 liquid salt	Xe133 inert gas	I131 solid salt	
						Ga67 liquid salt	In111 liquid organic compd				

DELIVERED 2/28/18 @ 12:10

R. Gettler

Bob Guzzetta

From: "Ouimette" <pouimette201@comcast.net>
Date: Thursday, June 15, 2017 9:02 AM
To: "Hot Shots Rockford Bob" <b.guzzetta@hotshotsnm.com>
Subject: Here you are!



International Isotopes Inc.

Return Acknowledgement

4137 Commerce Circle • Idaho Falls, ID. 83401 • Phone: 208-524-5300 • Toll Free: 800-699-3108 •
 Fax: 208-524-1411 • Web: www.intisoid.com

To: Hot Shots Nuclear Medici

Attn: Scott Temple

From: 563-391-9991

By sending this letter, International Isotopes, Inc, NRC license number 11-27680-01, acknowledges the receipt and transfer of possession of the radioactive source(s) described below.
 International Isotopes, Inc. received the source(s) at our facility located in Idaho Falls, Idaho.

Isotope Manufacturer	Reference Date	Labeled Activity	Serial Number	Date Received	RA Number
Co-57 RadQual	7/31/2015	10.000 mCi	BM051015182101	6/1/2017	029369

Shelby Carlson

Signature

[Handwritten Signature] 6/15/17

F162 D Return Acknowledgement

6/15/2017 7:53 am

6/15/2017

Close-out survey of CardioSpecialists Group, Ltd.
2510 Gettler, Suite 420, Dyer, IN 46311

Performed by: Bryce A. Caudle, M.S.
Medical Physics Consultants, Inc.

Radioactive materials usage at this location of use was limited to materials licensed under 10 CFR 35.100 and 35.200. Sealed radioactive sources were possessed and used for equipment quality control.

Wipe tests for removable radioactive contamination were taken on 3/1/18 and analyzed in a Ludlum Model 243 (S/N: 145366) Shielded Well Scintillator coupled to a Ludlum Model 2200 (S/N: 138705) Scaler Ratemeter. A window of 50 to 400 keV was used to analyze the wipes. The efficiency of this system for cobalt-57 is 1.09 dpm/cpm. The results of the wipe samples are enclosed.

The radiation levels survey was performed on 3/1/18 by Bryce Caudle, using a Ludlum Model 14C Geiger-Muller survey meter (S/N: 59944) with an end-window probe. The meter was calibrated on 11/7/17. The range used for the radiation level survey was 0.0 to 0.2 mR/hr.

Visual Inspection

The area was visually inspected to ensure that all radioactive waste had been removed. No radioactive material was located in the area. All radioactive material signage has been removed from the area.

Radiation Level Survey

No area demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Sealed Sources

All sealed sources have been transferred to the nuclear medicine department of Franciscan Health Munster Hospital, NRC license number 13-32519-01. A letter of acknowledgement of receipt from Franciscan Health Munster Hospital is enclosed. No sealed source had ever been found to be leaking and a copy of the most recent leak test results is enclosed.

Removable Contamination Survey Results

Wipe samples were counted in a Ludlum Model 243 Shielded Well Scintillator (S/N: 145366) coupled to a Ludlum Model 2200 Scaler Ratemeter (S/N: 138705). The efficiency of this system for cobalt-57 is 1.09 dpm/cpm.

Background: 326 counts per minute

Wipe Number	Gross counts per minute	Net counts per minute	Disintegrations per minute
1	305	0	0
2	321	0	0
3	320	0	0
4	295	0	0
5	311	0	0
6	322	0	0
7	313	0	0
8	319	0	0
9	335	9	9.81
10	363	37	40.33
11	366	40	43.6
12	319	0	0
13	329	3	3.27
14	326	0	0
15	350	24	26.16
16	319	0	0
17	310	0	0
18	325	0	0
19	319	0	0
20	339	13	14.17
21	375	49	53.41
22	356	30	32.7

*Please refer to the attached survey map for wipe locations.

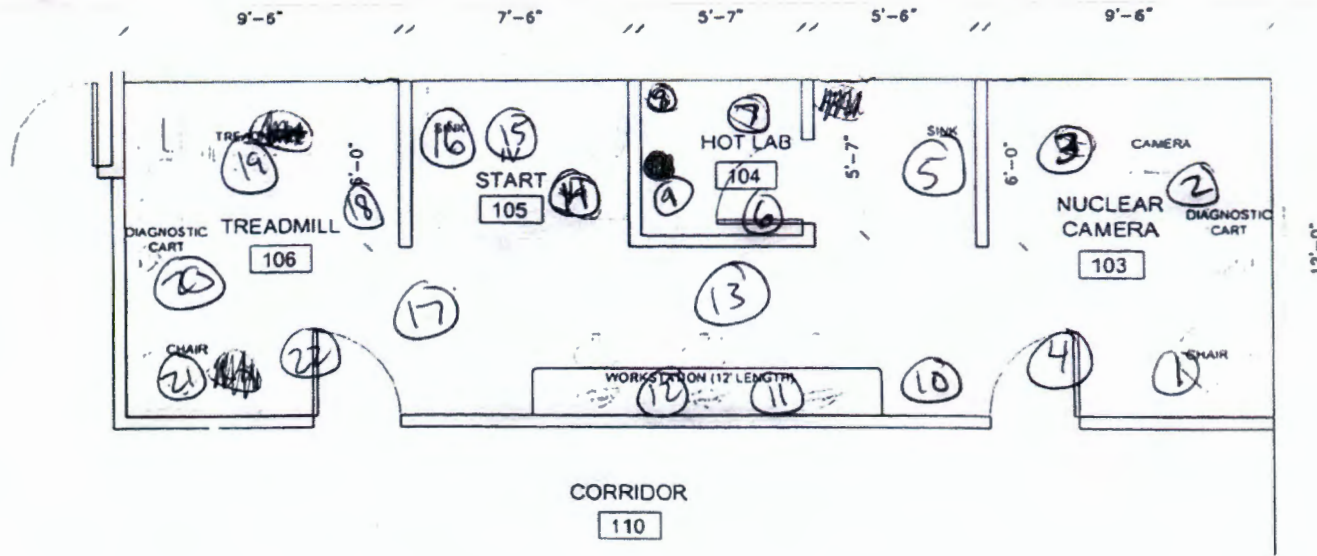
Maximum removable contamination occurred in area 21. Gross count rate = 375 cpm/100cm².
Net count rate (gross minus background) = 375 - 326 = 49 cpm/100cm². Net removable disintegrations per minute = 49 cpm/100cm² x 1.09 dpm/cpm = 53.41 dpm/100cm².

Conclusion

All radioactive materials have been removed from the area of use and no removable contamination is present.

Cascade Specialties Group, Ltd.
2510 Gutter Suite 400
Dyer, IN 46311

Weekly Wipes



146 GM #59944 Caldate: 11/7/17 →

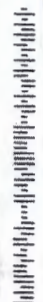
0.02v

CERTIFIED MAIL



7011 0470 0000 2387 2288

FIRST-CLASS US POSTAGE \$07.41⁰
MAR 19 2010
45001
0801 1052793



Michael C. Brewer
Radiation Oncology
24 Joliet St.
Dyer, IN 46311

RECEIVED MAR 22 2010

U. S. Nuclear Regulatory Commission
Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

