

Beaumont

Beaumont Hospital, Royal Oak
3601 West 13 Mile Road
Royal Oak, MI 48073

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

RE: Termination of Beaumont Northwest Cardiology Group; License # 21-32616-01
26400 West 12 Mile Road, Suite 120, Southfield, Michigan 48034

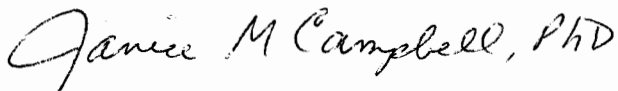
On Monday July 16, 2018 the Nuclear Medicine Department at Beaumont Northwest Cardiology was decommissioned prior to the removal of a gamma camera and the radiopharmacy from this location. This was performed with the assistance of Janet VanVeen, CNMT on behalf of Nathan Kerner, MD, RSO.

After all radioactive material was removed from the area; a final radiation survey was performed throughout. The survey consisted of a series of wipe tests to detect removable contamination on the surface areas of equipment and a survey to measure exposure levels. The survey included all countertops and testing areas, the floor, the sink and storage areas. No area above background was detected. No residual contamination was detected on any of the structures or equipment. All radioactive material labels and signs were removed. The wipe and survey results are attached.

All radioactive sealed sources were packaged and labeled appropriately for transfer to License # 21-01333-01, Beaumont Health System, 3601 West 13 Mile Road, Royal Oak, Michigan 48073. Transfer forms are available upon request.

I believe this site now meets the radiological criteria for license decommissioning and termination per 10CFR20. NRC Form 314; Certificate of Disposition of Materials is also attached. I am available at the contact information below if additional information is needed.

Sincerely,



Janice M. Campbell, PhD, RSO
Corporate Nuclear Medicine Physicist
Professor, Oakland University William Beaumont School of Medicine
Adjunct Professor, Wayne State University School of Medicine
Beaumont Health
Diagnostic Radiology and Molecular Imaging, Nuclear Medicine Section
3601 West 13 Mile Road | Royal Oak | MI | 48073
Phone: 248-898-4118 | Page: 248-992-2235
Janice.Campbell@beaumont.edu

CC: Nathan Kerner, MD

RECEIVED JUL 26 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 FS3), 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, NE08-10202, (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

Dr. Nathan Kerner, RSO
26400 West 12 Mile Road, Suite 120
Southfield, Michigan 48034

LICENSE NUMBER

2132616-01

DOCKET NUMBER

LICENSE EXPIRATION DATE

August 21, 2026

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:
Sealed Sources only; # 2101333-01, Beaumont Health System, 3601 West 13 Mile Road, Royal Oak, Michigan 48073
 - 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
Janice M Campbell, PhD	Corporate RSO and Nuclear Medicine Physicist, Beaumont Health	(248)-898-4118	Janice.Campbell@beaumont.edu

Mail all future correspondence regarding this license to:

Janice M Campbell, PhD, RSO, 3535 West 13 Mile Road, Radiation Safety Department, Beaumont Health, Royal Oak, Michigan, 48073

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE	SIGNATURE	DATE
Janice M Campbell, PhD, RSO	<i>Janice M Campbell, PhD</i>	7/23/18

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.

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
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

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

IF YOU ARE LOCATED IN:

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW JERSEY, 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
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

BEAUMONT NORTHWEST CARDIOLOGY NUCLEAR MEDICINE DECOMMISSIONING REPORT

Date: JULY 16, 2018

Final Decommissioning performed Janet van Veen, CNMT

Survey Instrument = End Window Ludlum 14C # 227724 Calibrated 8/14/17

Check Source = 0.6 mR/hr, bkg = 0.02mR/hr

CAPINTEC 15W WELL COUNTER EFFICIENCY 27% BKGD 250 cpm

DPM zero when cpm ≤ 0

Tube #	Location HOT LAB	Survey Results (mR/hr)	Swipe Results (net dpm)
1	Misc supplies-Saline box	0.02	0
2	Intima box		0
3	Batteries		0
4	Non radioactive drugs		0
5	Plastic tote (lead apron inside)		0
6	Spill kit		0
7	Box of Footies		159
8	Metal bracket		0
9	Rubbermaid shelving unit #1		59
10	Rubbermaid shelving unit #2		7
11	Radiacwash bottle		7
12	Shelf		0
13	Survey meter 223798		0
14	L-block Front side		11
15	Inside		0
16	Lead Sharps outside		77
17	inside		0
18	Lead Blocks Section 1		0
19	Lead Blocks Section 2		0
20	Lead Blocks Section 3		0
21	Counter inside lead block		0
22	Dose Calibrator outside		0
23	Dose Calibrator liner		0
24	Dose Calibrator dipper		103
25	Lead Pail—lid		0
26	Lead Pail—outside		0
27	Lead Pail—inside		0
28	Lead Pail—inside lid		0
29	Countertop—right half		26
30	Countertop—left half	v	52

	Location HOT LAB Under counter cabinet	Survey Results (mR/hr)	Swipe Results (net dpm)
31	Door—outside		55
32	Door—inside		85
33	Shelf		140
34	Floor		0
35	Pb syringe box--large		7
36	Pb syringe box-- small		0
37	137 Cs lead		0
38	137 Cs vial		15
39	137 Rod		70
40	137 Lead		0
41	133 Ba lead		85
42	133 Ba vial		0
43	Lead Ring		0
44	Floor		0
45	Well Counter—lead shield		0
46	Well Counter—chamber		44
47	Well Counter—base		0
48	Well Counter—lid		0
49	Well Counter—control box		0
50	Survey meter 227724	↓	0

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Check Source = 0.6 mR/hr, bkg = 0.02mR/hr

CAPINTEC 15W WELL COUNTER EFFICIENCY 27% BKGD 250 cpm

DPM zero when cpm \leq 0

Tube #	Location Camera Room	Survey Results (mR/hr)	Swipe Results (net dpm)
1	Desk	0.02	0
2	Computer Keyboard/screen		0
3	Computer hard drive		118
4	Beaumont computer		0
5	Beaumont Hard drive		0
6	Camera—Table		0
7	Camera –base		0
8	Camera Head 1		0
9	Camera Head 2		0
10	Collimator 1		0
11	Collimator 2		0
12	Decoy 1		0
13	Decoy 2		0
14	Bars 1		59
15	Bars2		37
16	Flood holder		0
17	COR holder		0
18	Shelves 1		0
19	Shelves 2		0
20	Shelves 3		0
21	Shelves 4		0
22	Acquisition Computer		0
23	EKG monitor		0
24	Oxygen tank/holder		0
25	Filing Cabinet		0
26	Rolling Cart #1		0
27	Injection Chair		126
28	Counter/sink		0
29	Treadmill		0
30	Crash Cart	↓	22
31	Rolling Cart #2		96

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REGION III
2443 WARRENVILLE RD, SUITE 210
LISLE IL 60532

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