

9-30-09

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

Fax # 630-515-1078

From: Dawn Edwards, M.P.C.
Dr. Kelen

Re: Termination and closeout
of license number 21-32560-01,
George J. Kelen, M.D., PLLC

pages 8

Questions: please call 616-818-8740

<p>NRC FORM 314 (4-2008) 10 CFR 30.38(X)(1); 40.42(X)(1); 70.38(X)(1); and 72.64(k)(5)(1)(1)</p>	<p>U.S. NUCLEAR REGULATORY COMMISSION</p>	<p>APPROVED BY OMB: NO. 3150-0028 EXPIRES: 08/31/2010</p> <p><small>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 Records and FOIA/Privacy Services Branch (T-6 F62), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollect@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOD-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.</small></p>
<p>CERTIFICATE OF DISPOSITION OF MATERIALS</p>		

<p>LICENSEE NAME AND ADDRESS</p> <p>George J. Kelen, M.D., PLLC 300 S. Ruth Ave., Suite 102 Ludington, MI 49431</p>	<p>LICENSE NUMBER</p> <p style="text-align: center;">21-32560-01</p>	<p>DOCKET NUMBER</p>
<p>LICENSE EXPIRATION DATE</p> <p style="text-align: center;">04/30/2015</p>		

This license has expired. **A. LICENSE STATUS** (Check the appropriate box) 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:
21-26543-01

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 GEORGE KELEN	TITLE MD	TELEPHONE (include Area Code) 231 843 2861	E-MAIL ADDRESS gkelen@charter.net
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Mail all future correspondence regarding this license to:
3950 W HANSEN LUDINGTON MI 49431

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE GEORGE J KELEN	SIGNATURE 	DATE 9.30.09.
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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.

September 30, 2009

UNITED STATES NUCLEAR REGULATORY COMMISSION
Region III, Materials Licensing Section
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352

Re: Termination of License number 21-32560-01

Please terminate our NRC license. We no longer wish to use radioactive materials.

The following attachments are enclosed:

Form 314
Closeout survey
Most recent leak test of sealed sources
Record of receipt of sealed sources at West Michigan Heart, P.C.

Thank you for your cooperation with this matter. If you have any questions or require additional information please contact me.

Sincerely,


George J. Kelen, MD

George J. Kelen, M.D., PLLC
September 2009

Page 1

Close-out Survey

George J. Kelen, M.D., PLLC
300 S. Rath Ave, Suite 102
Ludington, MI 49431

Date Performed: 9-30-09

Performed By: Dawn Edwards, Medical Physics Consultants, Inc.

Wipe tests were analyzed with a Capintec Caprac Well Counter. The efficiency factor is 1.32 dpm/cpm and the MDA is 103 dpm. The action level for wipe tests was 1000 dpm/100 cm².

Surveys were performed using a Ludlum 14C survey meter, serial number 203107 with a side window probe. Range used was 0-0.2 mR/hr. The meter was last calibrated on 1/26/09. The action level for exposure rate surveys was 0.1 mR/hr.

Visual Check

The area was checked to ensure no radioactive materials were in any of the rooms. Radioactive materials were never stored in the cardiac stress or camera rooms. Radioactive materials were always returned to the hot lab after use. All radiopharmaceuticals and sealed sources were stored in the hot lab. Only Tc-99m radiopharmaceuticals with a half-life of 6 hours were used. The last use of radiopharmaceuticals was on 8-18-09. All radioactive waste was decayed in storage prior to the closeout survey. Sealed sources were transferred to West Michigan Heart, P.C. 2900 Bradford, Grand Rapids, MI 49525 (NRC license number 21-26543-01). There is no history of leaking sources and a copy of the most recent sealed source leak test is enclosed.

Radiation Level Survey

No area within the office demonstrated radiation levels in excess of the background reading of 0.01 mR/hr.

Removable Contamination

1 minute counts

Background 0 dpm

George J. Kelen, M.D., PLLC
September 2009

Page 2

Area Results in dpm

Diagrams of the survey areas are enclosed.

Area	Result
1	0 dpm
2	18 dpm
3	4 dpm
4	0 dpm
5	0 dpm
6	0 dpm
7	16 dpm
8	23 dpm
9	2 dpm
10	0 dpm
11	0 dpm
12	0 dpm
13	0 dpm
14	0 dpm
15	15 dpm
16	0 dpm
17	0 dpm
18	6 dpm
19	0 dpm
20	0 dpm
21	12 dpm
22	14 dpm
23	0 dpm
24	12 dpm
25	0 dpm

Maximum removable contamination: 23 dpm

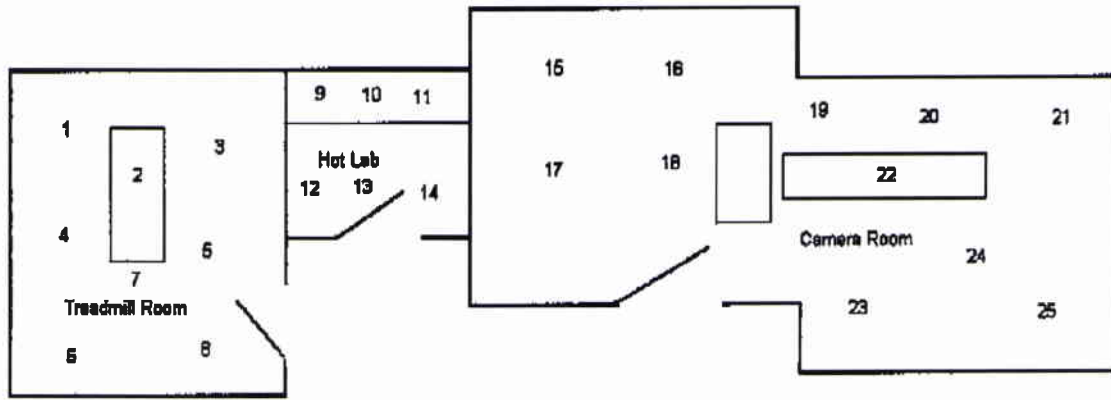
Conclusion

No removable contamination is present.

George J. Kelen, M.D., PLLC
September 2009

Page 3

Dr. Kelen
Closeout Diagram - September 2009





Sealed Source Leak Test

Licensee: George J. Kelen, M.D., PLLCDate: 05/04/09Performed by: Dawn Edwards

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial	202.6 uCi	06/01/05	Hot Lab		1111955
		Current Activity: 185.0uCi				
Ba-133	Vial	271 uCi	06/01/05	Hot Lab		11241010
		Current Activity: 210.4uCi				
Co-57	Flood	10 mCi	06/01/05	Hot Lab	NES-392	1121-094
		Current Activity: 0.256mCi				

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

<u>Nuclide</u>	<u>MDA</u>	<u>Background</u>
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RE: Dr. Kelen source list

Page 1 of 1

RE: Dr. Kelen source list

Chris Bopp

Sent: Wednesday, September 30, 2009 4:32 PM

To: Dawn Edwards [dedwards@mpcphysics.com]

Hi Dawn,

As we discussed, I had all of the Dr. Kelen's sources listed below transferred by Cardinal Health to our 2900 Bradford office yesterday, September 29, 2009. They are in our possession and are no longer located at the Lakeshore Cardiology office located at 300 S. Rath, Suite 102, Ludington, Michigan.

Chris Bopp
Nuclear Supervisor
West Michigan Heart, PC
(616)885-5208

From: Dawn Edwards [dedwards@mpcphysics.com]
Sent: Monday, September 28, 2009 11:01 AM
To: Chris Bopp
Subject: Dr. Kelen source list

Cs-137 vial 202.6 uCi on 6/05/05 – SN 1111955
Ba-133 vial 271 uCi on 8/01/05 – SN 11241010
Cs-137 rod 0.5 uCi on 4/01/05 - SN 11131120
Co-57 flood 10 mCi on 6/1/05 Model NES392 – SN 1121-094
Cs-137 button 1 uCi 5/4/07 SN 1380 on meter
Cs-137 button 1 uCi 11/4/07 SN 3333 on meter

Dawn Edwards, M.S.
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