

September 28, 2020

U.S. NRC Region III  
Materials Licensing Branch  
2443 Warrenville Road  
Suite 210  
Lisle, Illinois 60532-4352

**Licensee:** BJC Health System for Physicians Group, LC-Heart Care Associates  
**License #:** 24-32650-01  
**Subject:** License Termination

Dear Sir or Madam,

This is a request to terminate the above referenced Radioactive Materials License (RAML). The purpose of this amendment is to provide the final decommissioning report for the previously used hot lab and location at 1390 Hwy 61 STE 2300 in Crystal City Missouri 63019. The other address listed on the license was never a used as location of use as intended due to delays in construction at the site.

Sealed sources were transferred to Missouri Baptist Medical Center NRC license 24-1128-02. Thomas Moenster, RSO received these sources. He may be contacted at 314-996-5397 or [thomas.moenster@bjc.org](mailto:thomas.moenster@bjc.org).

I have included NRC form 314. The supporting documentation for the decommissioning survey can be found in **Attachment 1**.

If you require any additional information, please do not hesitate to contact me at [christopher.speidel@bjc.org](mailto:christopher.speidel@bjc.org) or at (314) 996-7272 and I will notify the appropriate individuals.

Sincerely,



Christopher M. Speidel, M.D.  
Radiation Safety Officer

Attachment 1: Decommissioning Survey Report

RECEIVED SEP 30 2020

## Decommissioning Survey Report

### **Executive Summary:**

This report is to serve as official documentation of the decommissioning of the previous location for BJC Health System for Physicians facilities on July 31, 2019. All sites were found to be free of radioactivity and were cleared for unrestricted use. All signage concerning radioactive areas for the location of use were removed and the location was released for unrestricted use.

### **Site Description:**

The facility includes a hot lab used for radioactive materials storage, an injection area, one treadmill room and one camera room. Radioactive materials were only stored in the hot lab.

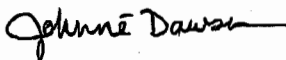
### **License History:**

This facility performed diagnostic imaging and localization exams that do not require a written directive (10 CFR 35.200) as well as used unsealed byproduct material for uptake, dilution, and excretion studies for which a written directive is not required (10 CFR 25.100). At the facility, studies utilized radioactive materials such as Tc-99m and historically in the past, Tl-201. The facility also stored sealed sources for reference calibration that were leak tested at least semi-annually without incident of leakage.

The last day of operation was the morning of July 29, 2019. A decommissioning survey was performed July 31, 2019.

All materials authorized under the license were stored in the hot lab, and these materials were used in the defined injection area and Camera Room for patient exams. Residual Tc-99m materials in the form of unit doses used July 29, 2019, were returned off-site to the radiopharmacy. All sealed sources were transferred and secured in the hot lab of Missouri Baptist Medical Center by the radiopharmacy. Waste that was logged in as being Decay-in-storage was measured and confirmed to be at background before being disposed of prior to July 31, 2019.

Decommissioning Survey completed by:



Johnné Dawson, M.S.  
Health Physicist  
West Physics

**RESULTS:**

There was no detectable radiation found. The results of the radiation surveys are as follows:

**Instrumentation**

Instrument	Model	SN#	Calibration Date	Background	Efficiency
Survey Meter	Ludlum	252063	5/15/19	0.02 mR/hr	-
Well Counter	Biodex AtomLab 500	1597796	7/23/19	702 cpm	33.03%

**Area Survey:** All area where radioactive materials were known to be used or stored were surveyed for contamination. Radiation levels were found to be at background (0.02 mR/hr) and below the action level limit.

**HOT LAB AREAS**

AREA	EXPOSURE RATE (mR/hr)
AREA #1 WORKBENCH	0.02
AREA #2 LOWER CABINET (SEALED SOURCE STORAGE)	0.02
AREA #3 LOWER CABINET (RAW STORAGE)	0.02
AREA #4 COMPUTER & WORKBENCH	0.02
AREA #5 L-BLOCK, DOSE CALIBRATOR, & WELL COUNTER	0.02
AREA #6 LOWER CABINETS (NO RAM STORAGE)	0.02
AREA #7 SHIELDED SHARPS CONTAINER & WORKBENCH	0.02
AREA #8 SINK	0.02
AREA #9 FLOOR A	0.02
AREA #10 FLOOR B	0.02

**ADDITIONAL ROOMS SURVEYED WITH NO RADIOACTIVE MATERIALS STORED**

AREA	EXPOSURE RATE (mR/hr)
TREADMILL RM 1	0.01
CAMERA RM 1	0.01
WAITING ROOM	0.01
INJECTION AREA	0.01

Wipe Survey: All area where radioactive materials were known to be used or stored were surveyed for contamination. Wipes were counted utilizing a well counter on the wide window.

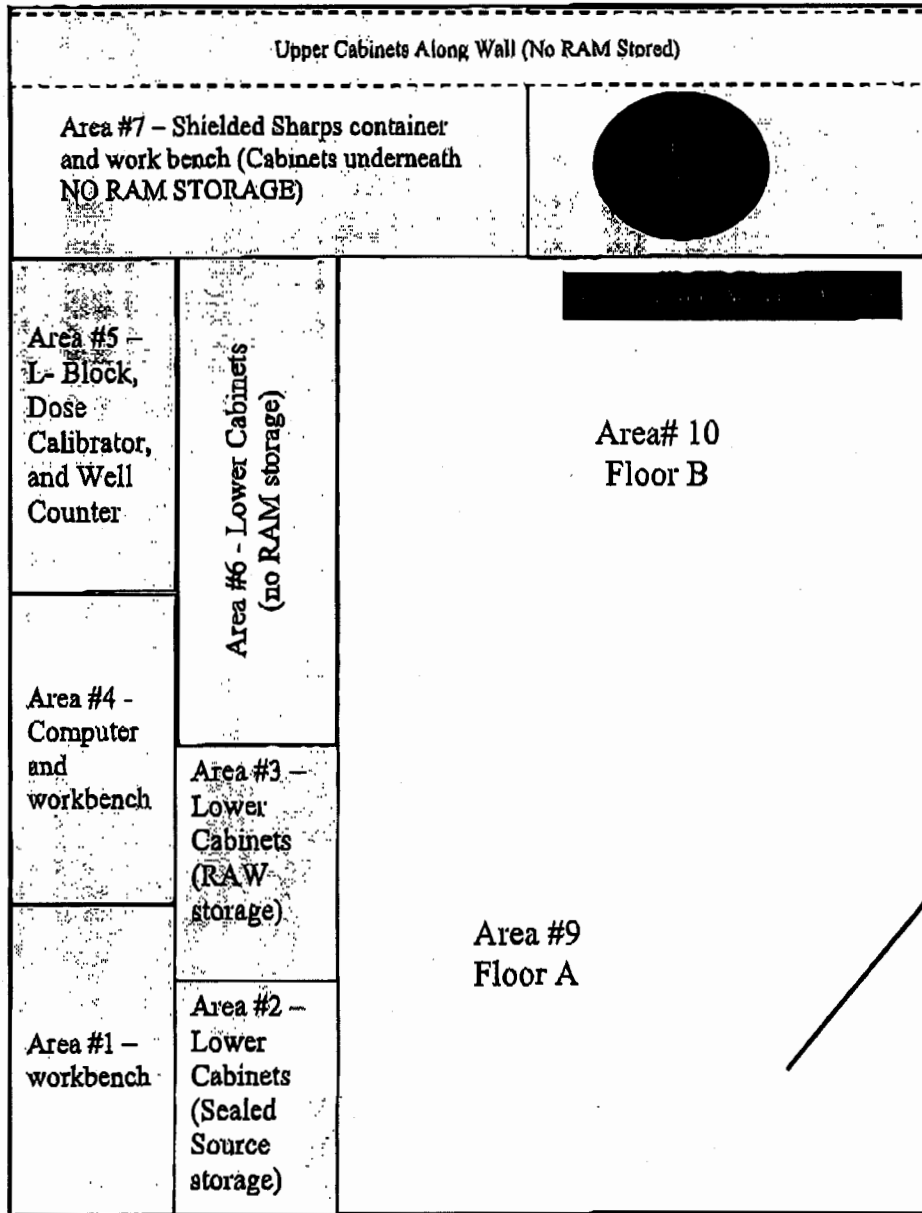
**HOT LAB AREAS**


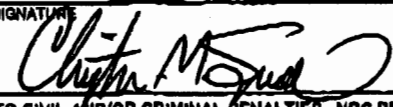
AREA	WIPE TEST (net cpm)	WIPE TEST (net dpm)
AREA #1 WORKBENCH	-21	-63.58
AREA #2 LOWER CABINET (SEALED SOURCE STORAGE)	36	108.99
AREA #3 LOWER CABINET (RAW STORAGE)	-15	-45.41
AREA #4 COMPUTER & WORKBENCH	-24	-72.66
AREA #5 L-BLOCK, DOSE CALIBRATOR, & WELL COUNTER	-39	-118.07
AREA #6 LOWER CABINETS (NO RAM STORAGE)	45	136.24
AREA #7 SHIELDED SHARPS CONTAINER & WORKBENCH	42	127.16
AREA #8 SINK	-51	-154.41
AREA #9 FLOOR A	-27	-81.74
AREA #10 FLOOR B	12	36.33

**ADDITIONAL ROOMS SURVEYED WITH NO RADIOACTIVE MATERIALS STORED**

<b>AREA</b>	<b>WIPE TEST (net cpm)</b>	<b>WIPE TEST (net dpm)</b>
INJECTION AREA	27	81.74

### HOT LAB DIAGRAM



<p><b>NRC FORM 314</b> (02-2017) 10 CFR 30.39(h)(1); 40.420(h)(1); 70.38(h)(1); and 72.54(h)(5)(1)(1)</p> 	<p>U.S. NUCLEAR REGULATORY COMMISSION</p> <p><b>CERTIFICATE OF DISPOSITION OF MATERIALS</b></p>	<p>APPROVED BY OMB: NO. 3160-0028</p> <p>EXPIRES: 02/29/2020</p> <p><small>Estimated burden per response to comply with this mandatory collection request: 30 minutes. This material 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 Collection Branch (7-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to <a href="mailto:infocoll@nrc.gov">infocoll@nrc.gov</a>, and to the Desk Officer, Office of Information and Regulatory Affairs, NEDB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a release used to suppress 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>LICENSEE NAME AND ADDRESS</p> <p><b>BJC Health System for Physicians Group LC</b> 3009 N Ballas Rd Ste 214 B St. Louis, MO 63131</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">LICENSE NUMBER</td> <td style="width:50%;">DOCKET NUMBER</td> </tr> <tr> <td style="text-align: center;">2432650-01</td> <td style="text-align: center;">030-37445</td> </tr> <tr> <td colspan="2">LICENSE EXPIRATION DATE</td> </tr> <tr> <td colspan="2" style="text-align: center;">7/31/2027</td> </tr> </table>	LICENSE NUMBER	DOCKET NUMBER	2432650-01	030-37445	LICENSE EXPIRATION DATE		7/31/2027		
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<p><b>A. LICENSE STATUS (Check the appropriate box)</b></p> <p><input type="checkbox"/> This license has expired.    <input checked="" type="checkbox"/> This license has not yet expired; please terminate it.</p>										
<p><b>B. DISPOSAL OF RADIOACTIVE MATERIAL</b> <i>(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)</i></p> <p>The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:</p> <p><input type="checkbox"/> 1. No radioactive materials have ever been procured or possessed by the licensee under this license.</p> <p><input checked="" type="checkbox"/> 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:</p> <p><input checked="" type="checkbox"/> a. Transfer of radioactive materials to the licensee listed below:</p> <p style="padding-left: 40px;">Transfer 7/31/2019 to Missouri Baptist Medical Center, NRC 24-11128-02; Thomas Moenster, RSO (314) 996-5397</p> <p><input checked="" type="checkbox"/> b. Disposal of radioactive materials:</p> <p><input checked="" type="checkbox"/> 1. Directly by the licensee:</p> <p style="padding-left: 40px;">Decay in storage waste disposed</p> <p><input type="checkbox"/> 2. By licensed disposal site:</p> <p><input type="checkbox"/> 3. By waste contractor:</p> <p><input checked="" type="checkbox"/> 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.</p>										
<p><b>C. SURVEYS PERFORMED AND REPORTED</b></p> <p><input checked="" type="checkbox"/> 1. A radiation survey was conducted by the licensee. The survey confirms:</p> <p><input checked="" type="checkbox"/> a. the absence of licensed radioactive materials</p> <p><input checked="" type="checkbox"/> b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.</p> <p><input checked="" type="checkbox"/> 2. A copy of the radiation survey results:</p> <p><input checked="" type="checkbox"/> a. is attached; or <input type="checkbox"/> b. is not attached (Provide explanation); or <input type="checkbox"/> c. was forwarded to NRC on: _____ Date</p> <p><input type="checkbox"/> 3. A radiation survey is not required as only sealed sources were ever possessed under this license, and</p> <p><input type="checkbox"/> a. The results of the latest leak test are attached; and/or <input type="checkbox"/> b. No leaking sources have ever been identified.</p>										
<p>The person to be contacted regarding the information provided on this form:</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">NAME</td> <td style="width:30%;">TITLE</td> <td style="width:20%;">TELEPHONE (include Area Code)</td> <td style="width:20%;">E-MAIL ADDRESS</td> </tr> <tr> <td>Christopher M. Speidel, M.D.</td> <td>Radiation Safety Officer</td> <td>(314) 996-7272</td> <td>christopher.speidel@bjc.org</td> </tr> </table>			NAME	TITLE	TELEPHONE (include Area Code)	E-MAIL ADDRESS	Christopher M. Speidel, M.D.	Radiation Safety Officer	(314) 996-7272	christopher.speidel@bjc.org
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<p>Mail all future correspondence regarding this license to:</p> <p><b>BJC Health System for Physicians Group LC 3009 N Ballas Rd Ste 214 B St. Louis, MO 63131</b></p>										
<p><b>C. CERTIFYING OFFICIAL</b> I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT</p>										
PRINTED NAME AND TITLE	SIGNATURE	DATE								
Christopher M. Speidel, M.D. RSO		9/29/2020								
<p><b>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.</b></p>										