



**APPLICATION FOR MATERIALS LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. 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 [Infocollections.Resource@nrc.gov](mailto:Infocollections.Resource@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), 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.

**INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW. \*AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.**

<p>APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:</p> <p>OFFICE OF FEDERAL &amp; STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555-0001</p> <p>ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS: IF YOU ARE LOCATED IN:</p> <p>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.</p> <p>SEND APPLICATIONS TO: ✓</p> <p>LICENSING ASSISTANCE TEAM DIVISION OF NUCLEAR MATERIALS SAFETY U.S. NUCLEAR REGULATORY COMMISSION, REGION I 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA, PA 19406-2713</p>	<p>IF YOU ARE LOCATED IN:</p> <p>ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:</p> <p>MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION III 2443 WARRENVILLE ROAD, SUITE 210 LISLE, IL 60532-4352</p> <p>Br. 1 03036684</p> <p>ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING.</p> <p>SEND APPLICATIONS TO:</p> <p>NUCLEAR MATERIALS LICENSING BRANCH U.S. NUCLEAR REGULATORY COMMISSION, REGION IV 1600 E. LAMAR BOULEVARD ARLINGTON, TX 78011-4511</p>
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**PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.**

<p>1. THIS IS AN APPLICATION FOR (Check appropriate item)</p> <p><input type="checkbox"/> A. NEW LICENSE</p> <p><input type="checkbox"/> B. AMENDMENT TO LICENSE NUMBER</p> <p><input checked="" type="checkbox"/> C. RENEWAL OF LICENSE NUMBER <u>06-30966-01</u></p>	<p>2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)</p> <p>Quality Cardiovascular Care 1389 West Main St. Tower One, suite 106 Waterbury, CT 06708</p>
<p>3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED</p> <p>1389 West Main St. Tower One, Suite 106 Waterbury, CT 06708</p>	<p>4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION</p> <p>Jeff Bean</p> <p>BUSINESS TELEPHONE NUMBER: 203-591-1998</p> <p>BUSINESS CELLULAR TELEPHONE NUMBER:</p> <p>BUSINESS EMAIL ADDRESS: <a href="mailto:mrosenberg@gcheart.com">mrosenberg@gcheart.com</a></p>

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>
<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS</p>	<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.</p>
<p>10. RADIATION SAFETY PROGRAM.</p>	<p>9. FACILITIES AND EQUIPMENT.</p>
<p>12. LICENSE FEES (Fees required only for new applications, with few exceptions*) (See 10 CFR 170 and Section 170.31)</p>	<p>11. WASTE MANAGEMENT.</p> <p>FEE CATEGORY: <u>7C</u> AMOUNT ENCLOSED: \$ <u>3300.00</u></p>

13. CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 37, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 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.

<p>CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE</p> <p>Mark Rosenberg, MD, Director</p>	<p>SIGNATURE</p> <p>Mark S. Rosenberg</p>	<p>DATE</p> <p>9/3/14</p>
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**FOR NRC USE ONLY**

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENT
			\$		
APPROVED BY				DATE	

REC'D IN LAT 9-09-14

584750

**Application for Renewal of Materials License, Items 5-11,  
For License Number: 06-30966-01**

5.

<b>Byproduct Material</b>	<b>Chemical/Physical Form</b>	<b>Maximum Amount</b>
Any byproduct material permitted by <b>10 CFR 35.100</b>	Any	As needed
Any byproduct material permitted by <b>10 CFR 35.200</b>	Any	As needed

6.

<b>10 CFR 35.100</b>	Use of unsealed byproduct material for uptake, dilution, and excretion studies for which a written directive is not required.
<b>10 CFR 35.200</b>	Use of unsealed byproduct material for imaging and localization studies for which a written directive is not required.

7. **Mark Rosenberg, MD, Authorized User, License #: 06-30966-01.**

8. Training for Individuals Working in or Frequenting Restricted Areas:

**Personnel will be instructed:**

1. Before assuming duties with, or in the vicinity of, radioactive materials.
2. During annual refresher training.
3. Whenever there is a significant change in duties, regulations, or the terms of the license.

**Instructions for individuals in attendance will include the following:**

1. Applicable regulations and license conditions.
2. Areas where radioactive material is used and stored.
3. Appropriate radiation safety procedures.
4. Licensees' in-house work rules.
5. Each individual's obligation to report unsafe conditions to the RSO.
6. Appropriate response to emergencies and unsafe conditions.
7. Worker's right to be informed of occupational radiation exposure records.
8. Locations where the license has been posted, or made available, copies of regulations, and license conditions (including applications and correspondence).

**Records of initial and refresher training will be maintained for inspection.**

## 9. Facilities and Equipment

Please see attached facility diagram and radiation shielding survey data.

Radiation monitoring instruments will be calibrated by a person qualified to perform survey meter calibrations.

Two portable Ludlum survey meters, model 14C-608R with Ludlum probe, model 44-9, will be used to perform required surveys.

Capintec CRC-15W stationary dose calibrator and well counter used to perform measurement of doses and wipe tests.

We reserve the right to upgrade our survey instruments as necessary as long as they are adequate to measure the type and level of radiation for which they are used.

Equipment used to measure dosages and wipe tests will be calibrated in accordance with nationally recognized standards or the manufacturer's instructions.

## 10. Radiation Protection Program:

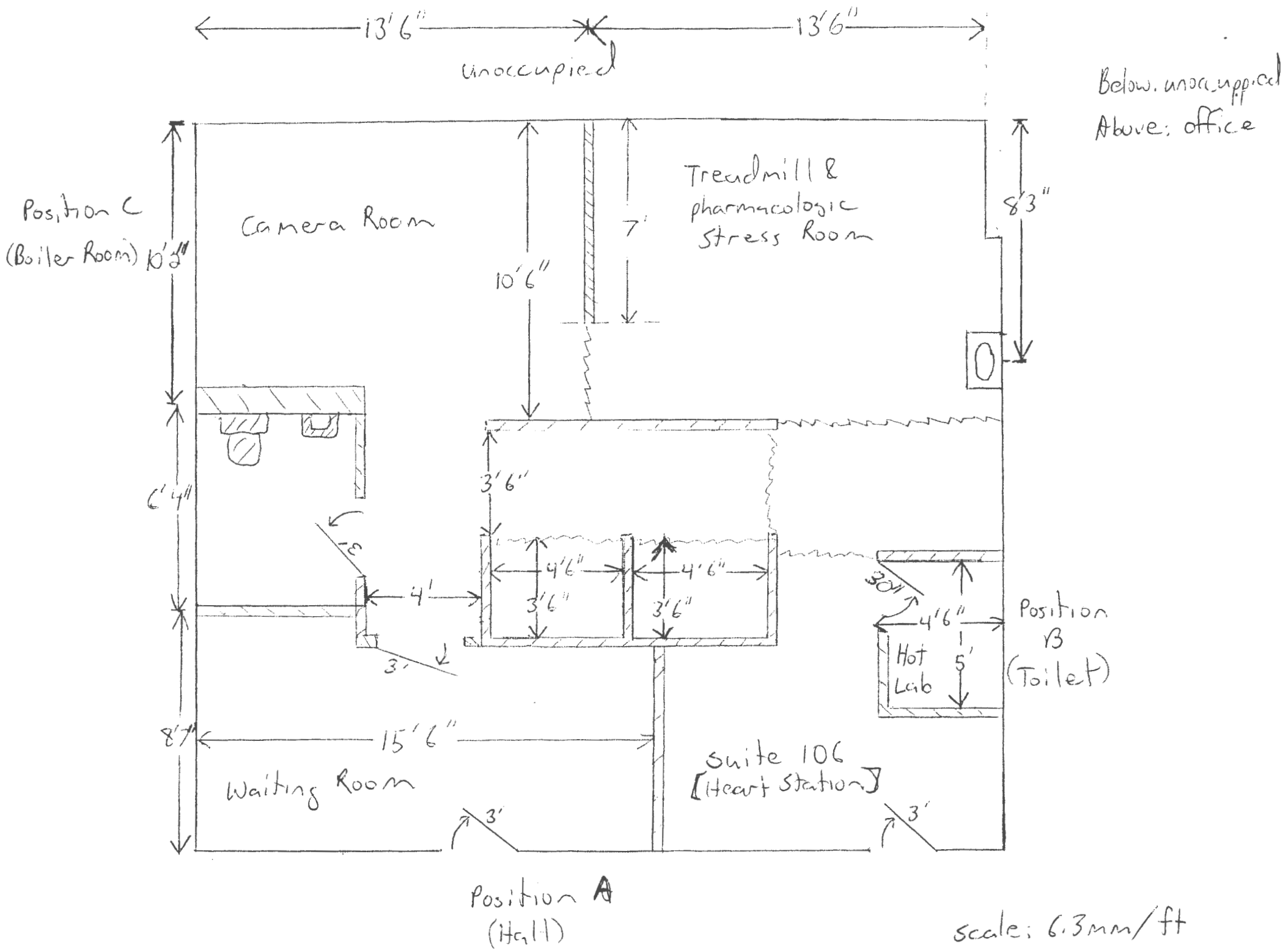
In regard to occupational dose we can and will provide dosimetry that meets the requirements listed under 'Criteria' in NUREG-1556, Volume 9, Revision 1, 'Consolidated Guidance About Materials Licenses: Program-Specific Guidance About Medical Use Licenses'.

We have developed and will implement and maintain written procedures for area surveys in accordance with 10 CFR 20.1101 that meet the requirements of 10 CFR 20.1501 and 10 CFR 35.70.

We have developed and will implement and maintain written procedures for safe response to spills of licensed material in accordance with 10 CFR 20.1101.

## 11. Waste Management:

We have developed and will implement and maintain written waste disposal procedures for licensed material, in accordance with 10 CFR 20.1101, that also meet the requirements of the applicable section of Subpart K to 10 CFR Part 20 and of 10 CFR 35.92.



RADSERV LLC  
 340 Mixville Road  
 Cheshire CT 06410  
 27-May-14

Quality Cardiovascular Care  
 1389 W Main St Ste 106  
 Wtby CT 06708  
 Nuclear Medicine Suite

Radiation Shielding Survey

Equipment: 71 mCi Tc-99m exposed syringe (higher than highest dose used clinically)  
 Ludlum 14C s/n210729 State Reg

Basis:

2 pt/day                      3 days/wk                      1 exp/pt                      12600 sec/exp

Tested at:

n/a                      kVp                      n/a                      mA                      n/a                      sec or                      mAs

Position		mr/hr	occ.fact.	mr/wk
background		0.03	n/a	n/a
A	hall	0.03	0.25	0.1575
B	toilet	0.8	0.1	1.68
C	boiler rm	0.3	0.0625	0.39375
D				0
E				0
F				0
G				0
above	office	0.3	0.1	0.63
below	unoccupied		0	0

Measurement with exposed syringe. Public dose limit not exceeded. Acceptable.

Stuart R. Korchin, P.E., FACR  
 Medical Physicist