

C O V E R

FAX

S H E E T

To: PENNY LANZIERA LICENSING  
Fax #: 610-337-5269  
Subject: CONNECTICUT MULTISPECIALITY GROUP  
Date: 10/29/15 06-14854-01  
Pages: 8, including this cover sheet.

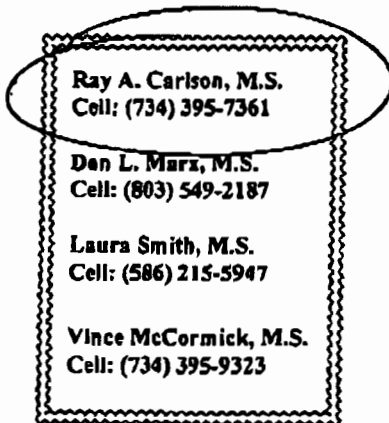
COMMENTS:

HARTFORD CARDIOLOGY GROUP  
ARE THE NEW OWNERS OF THE  
EAST HARTFORD OFFICE.

Br. 1

06-14854-01

03008163



589266  
NMSS/RGN1 MATERIALS-002

Radiological Physics Service, Inc.  
3839 Napier Road  
Plymouth, MI 48170  
(734) 455-4730  
FAX: (734) 453-8651

REC'D IN LAT 10-29-15

**Connecticut Mulyispecialty Group, P.C.  
2110 Silas Deane Highway  
Rocky Hill, CT 06067**

June 30, 2015

U.S. Nuclear Regulatory Commission  
Materials Licensing Section  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Dear Sir:

Please amend Materials License number 06-14854-01 for the following change:

Delete the location of use at 478 Burnside Ave., Suite 201, East Hartford, CT.  
No studies using radioactive materials since May, 2014. The sealed sources have been transferred to the location of use at 1260 Silas Deane Highway, Suite 106, Wethersfield, CT.  
Enclosed is a copy of the closeout survey.

If there are any questions please call me at 734-395-7361 cell.

Sincerely,

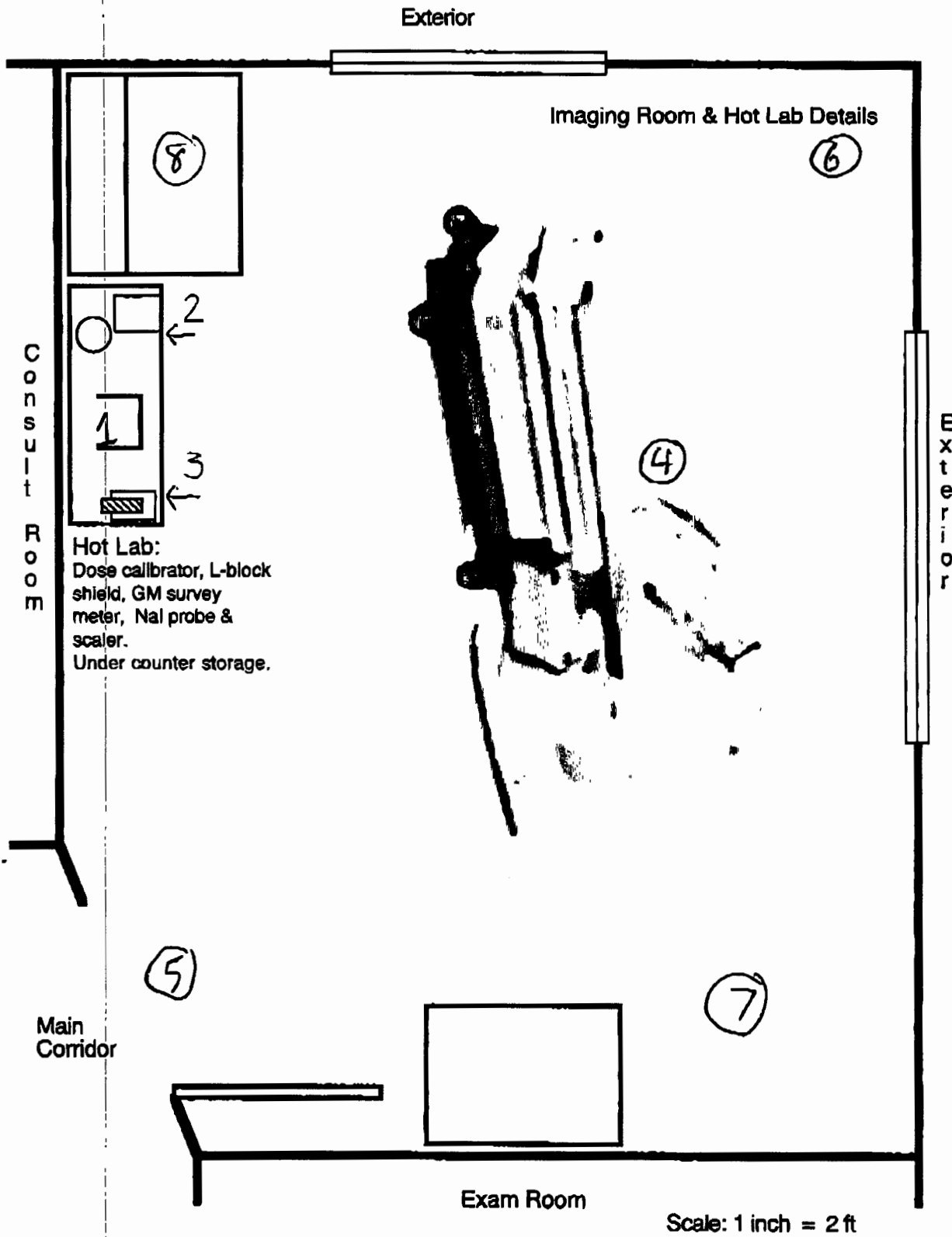


Ray A. Carlson, M.S.  
Radiation safety Officer

REC'D IN LAT 10-29-15

*Via fax*

Details to Imaging Room & Hot Lab



HARTFORD HEART, LLC

**CERTIFICATE OF TRANSPORT OF RADIOACTIVE MATERIALS**

Transfer From: **HARTFORD HEAVY**  
**478 BURNSIDE AVE, SUITE 201**  
**E. HARTFORD, CT 06108**

License Number: **06-14854-01**

**NRC 24 HOUR EMERGENCY NUMBER: 1-800-695-7403**

Radionuclide(s)	Shipping Name, Hazard Class, I.D. #	DOT Label & Transport Index		Type of Package
		Label	T.I.	
<b>0.87mCi</b>	Radioactive material, Type A package, Hazard Class 7, UN 2910  10CFR49.172.202  Total Quantity: <u>0</u> Ammo Box(s)	<b>EXCEPTED</b>	<b>0.02</b>	US DOT type 7A
<b>FLOUO SOURCE</b>				
<b>Chemical form</b>				
<b>Cs-137</b>				
<b>Isotope(s)</b>				

**THIS IS TO CERTIFY THAT THE ABOVE LISTED RADIOACTIVE MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED, LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.**

Transfer To: **CONNECTICUT MULTISPECIALTY GROUP**  
**1260 SILAS DEANE HWY., SUITE 106**  
**WETHERSFIELD, CT 06109**

**DISPLAY THIS COMPLETED FORM IN DRIVER'S COMPARTMENT WHEN TRANSPORTING RADIOACTIVE MATERIAL. RETAIN RECORD FOR INSPECTION PURPOSES.**

**EMERGENCY SPILL PROCEDURES ON REVERSE SIDE.**

<b>Radiation Survey of Package at Time of Shipment:</b>	<b>Radiation Survey of Package at Destination:</b>
Number of packages delivered: <u>1</u> Date: <u>6/18/15</u>	Package condition: <u>X</u> OK ___ Damaged
Package condition: <u>X</u> OK ___ Damaged	Surface: <u>0.02</u> mR/hr 1.0 meter <u>0.02</u> mR/hr
Surface: <u>0.02</u> mR/hr 1.0 meter <u>0.02</u> mR/hr	Survey Meter used: <u>GM</u>
Wipe Test: <u>2</u> dpm	Signature: <u>[Signature]</u>
Survey Meter used: <u>GM</u>	

Location: Hartford Heart, LLC

Date of Inspection: March 5, 2015

**SEALED SOURCE INVENTORY**

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfr.	M/N	S/N
Co-57	Flood	Cabinet	10 mCi	11/01/12	Eckert & Ziegler	MED 3727	1630-006
Cs-137	Rod	Hot Cabinet	1 uCi		Picker	658194	

RSO:                     RACLS                    

**SEALED SOURCE LEAK TEST**

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfr.	M/N	S/N
Co-57	Flood	Cabinet	10 mCi	11/01/12	Eckert & Ziegler	MED 3727	1630-006

COMMENT: *The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.*

TESTED BY: Rav A. Carlson, M.S.

DATE: March 5, 2015

RSO:                     RACLS

Location: Connecticut Multispecialty Group (Cardiology)

Date of Inspection: June 18, 2015

SEALED SOURCE INVENTORY

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.5 uCi	04/01/06	Card. Health	RV-137-200U	1145-57-12
Co-57	sheet	Hot Lab	10 mCi	10/01/12	Eckert & Ziegler	PF16R-057-10M	1628-166
Gd-153	rod	Camera	240 mCi (x2)	03/01/15	Eckert & Ziegler	NES-8497	M3-157 M3-158
Cs-137	vial	Hot Lab Storage	212 uCi	02/05/90	DuPont	NES-356	S356014-031
Cs-137	rod	Hot Lab	0.1 uCi	11/01/06	Cardian	SGF-0206	1133-56-6
Co-57	flood	Hot Lab	10 mCi	11/01/12	Eckert & Ziegler	MED 3727	1630-006
Cs-137	rod	Hot Lab	1 uCi		Picker	658194	

RSO: Ray A. Carlson

SEALED SOURCE LEAK TEST

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.5 uCi	04/01/06	Card. Health		1145-57-12
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COMMENT: The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.

TESTED BY: Ray A. Carlson, M.S.

DATE: June 18, 2015

RSO: Ray A. Carlson

# Radiological Physics Service, Inc.

This is to certify that

**Jennifer Bonczek**  
**Connecticut Multispecialty Group**

Has successfully completed DOT HAZMAT training pertaining to the procurement of packages containing radioactive materials on the following date:  
**July 7, 2014**

This training covers the following topics and a test was successfully completed to assure understanding of the material:

- General Awareness of the following regulations:
  - o 49 CFR Part 171-180
  - o 10 CFR Part 30.34(c) and Part 30.41
  - o 10 CFR Part 71
- Familiarization with the Hazardous Materials Regulations
- Job function training
- Safety Training
- Security Training

This training complies with: 10 CFR Part 30, USNRC, 10 CFT 71 DOT, MDCH, MDEQ, and 49 CFR - Hazardous Materials Regulations, Subpart H.

Ray A. Carlson, M.S.

*Medical Physicist (Printed name)*



*Signature*

# Radiological Physics Service, Inc.

This is to certify that

**Mary Jo Buckley-Clark**  
**Connecticut Multispecialty Group**

Has successfully completed DOT HAZMAT training pertaining to the procurement of packages containing radioactive materials on the following date:  
**July 8, 2014**

This training covers the following topics and a test was successfully completed to assure understanding of the material:

- General Awareness of the following regulations:
  - o 49 CFR Part 171-180
  - o 10 CFR Part 30.34(c) and Part 30.41
  - o 10 CFR Part 71
- Familiarization with the Hazardous Materials Regulations
- Job function training
- Safety Training
- Security Training

This training complies with: 10 CFR Part 30, USNRC, 10 CFT 71 DOT, MDCH, MDEQ, and 49 CFR - Hazardous Materials Regulations, Subpart H.

Ray A. Carlson, M.S.

*Medical Physicist (Printed name)*



*Signature*



**SEALED SOURCE INVENTORY**

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.5 uCi	04/01/06	Card. Health	RV-137-200U	1145-57-12
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Cs-137	vial	Hot Lab Storage	212 uCi	02/05/90	DuPont	NES-356	S356014-031
Cs-137	rod	Hot Lab	0.1 uCi	11/01/06	Cardian	SGF-0206	1133-56-6

RSO: \_\_\_\_\_

**SEALED SOURCE LEAK TEST**

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.5 uCi	04/01/06	Card. Health		1145-57-12
Co-57	sheet	Hot Lab	10 mCi	10/01/12	Eckert & Ziegler	PF16R-057-10M	11628-166
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Cs-137	vial	Hot Lab	212 uCi	02/05/90	DuPont	NES-356	S356014-031

**COMMENT:** *The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.*

**TESTED BY:** Ray A. Carlson, M.S.      **DATE:** March 5, 2015

RSO: \_\_\_\_\_

# HAZMAT/DOT Training

**Instructors:** Ray Carlson, M.S. — Vince McCormick, M.S. - Laura Smith, M.S. and Matt Buczek, M.S.

All Hazmat Employees must have DOT training within 90 days of employment and every three years thereafter in order to comply with 10 CFR Part 30 – USNRC, 10 CFR 71 DOT, MDCH, MDEQ, and 49 CFR – Hazardous Materials Regulations, Subpart H. A Hazmat Employee is one who is involved with the packaging, marking, labeling, measuring, loading, transporting, and storage of packages containing radioactive materials.

Training Must Include the Following:

1. General awareness and familiarization
2. Function specific
3. Safety training
4. Security awareness training
5. In-depth security training
6. A test to ensure the understanding of all above

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## General Awareness and Familiarization

1. Pull paperwork from a recent pharmacy delivered package and review the paperwork carefully without skimming it over.
2. Radiation present minimal risk to transport workers if transported properly.
3. Undamaged packages are safe.

## Function Specific and Safety Training

### 1. Limited Quantity vs. Normal Form Shipments

- a. There are different because of activity present within the package. The limit quantities are always listed on the inside of any courier package that is delivered, and are listed below. All nuclear pharmacy returns are shipped as Limited Quantities.

Radionuclide	Max mCi amount	Max MBq amount
Tc-99m	11.0	407
Mo-99 generators	20	790
Tl-201	11	407
I-131	1.89	70
P-32	1.4	51.8
Co-57 flood or otherwise	270	9990
Sr-89	1.6	59.2
Y-90	0.81	30
In-111	8.1	300
Pd-103 seed implants	1100	4074
F-18	1.6	59.2
I-125 seed implants	81	3000
X-133 gas	270	10,000




**NOTE:** If mixed nuclides are shipped together, use the lowest total activity. Recall that 1 mCi = 37 MBq.

### b. Packages and Containers:

- Must have security seals that prove the package integrity was not compromised. If you receive a package with a broken security seal you must notify the RSO immediately. **Do Not Open** the package. If you receive a package that is leaking you must notify the RSO immediately. **Do Not Open** the package.
- Not just any package or container can be used to ship radioactive materials. You must use only documented and approved containers that have been through a series of physical abuse testing (dropped, water penetration, compression testing, etc.). Once approved it can be classified as a "Type A" container.

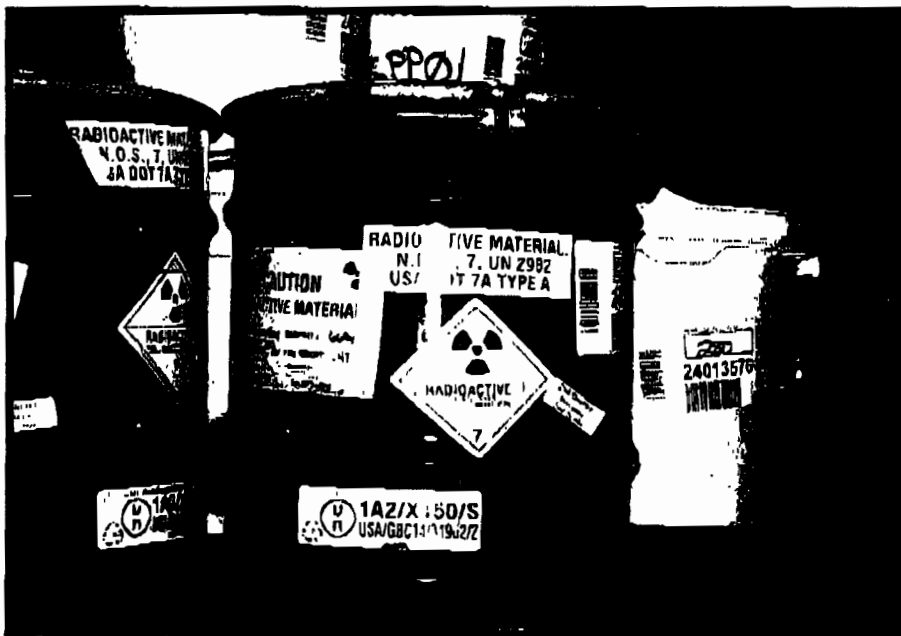
### c. Labels

- **Normal** radioactive material packages must contain the exterior label "UN-2915, Radioactive Material, Type A package, Non-special form, Non-fissile or fissile excepted.
- **Limited quantity** radioactive material packages must contain an exterior label of "UN- 2910."
- **Interior** labeling must contain the Radioactive sign.
- **Ti = Transport Index** is the exposure measured at one (1) meter from the package. T1 has no units. 2.5 mR/hr = T1 of 2.5.
- **Exterior placards** are required.

DOT Labels	Surface Readings	Readings @ 1 Meter
Non-Exempt Quantity 	No Reading Under 0.5 mR/h At any external point	No Reading Background only; no additional readings
	Under 50 mR/h At any external point	Not above: 1.0 mR/h TI = 1.0 or less... Example 0.5 or 0.5
	Under 200 mR/h At any external point	Not greater than 10 mR/h TI = 10 or less Example 2.2

All packages must be wipe tested prior to opening or sending. Limit 2200 cpm/100 cm<sup>2</sup>

Note that the #7 on the bottom of each radioactive placard. This is Hazard Class 7 – Radioactive.



Example of Waste Package

d. Shipping Papers

- All radioactive packages must have a "Bill of Lading" and a "Shippers Certificate." (See attached)
- All shipping paperwork must have an Emergency Contact listing you RSO or medical physicist and a phone number to the shipper. This must be a 24 hour contact number.
- All paperwork must be within the drivers reach. Suggestions: wear around neck or leave on dashboard.
- When the driver leaves the vehicle without removing the radioactive materials, the shipping and emergency documents must be placed on the driver's seat with the doors locked and the brakes on.

e. Shipping Sealed Sources

- Leak test must be performed prior to sending out.
- Proper labels are required.
- Proper shipping papers must be prepared.
- Return box and packaging must be appropriate.
- If the source is above Limited Quantity, or exceed the 0.5 mR/hr at surface, you will need physics help with this. Stop and contact physicist or RSO.

f. Package Receipt

- Package should be surveyed and wipe tested within three (3) hours of receipt or within three (3) hours of the next business day.

g. Package Safety

- If you receive a package that is leaking, you must notify the RSO immediately. **Do not open.**
- Always wear gloves while working with unsealed radioactive materials.
- Packages must be surveyed and wipe tested to check for exposure and removable contamination.
- If you receive a package that is above the trigger limits, you must immediately contact the RSO, physicist or sender.
- If you injure or hurt yourself with a contaminated package, care for the injury first and contamination second.
- Handle contaminated packages carefully, but **do not open.**

**Awareness and In-depth Security Training**

- a. When a package is delivered it must be secured. The package should be placed in an area that is secured from unauthorized access. Preferably the hot lab. It should always be under direct supervision (within sight) when not secured. If transporting packages (even from department to department) make sure the package is in a locked vehicle at all times when it is not within sight.
- b. You should transport radiation off campus, unless under the direct guidance of the RSO.
- c. Check ID of all individuals requesting access to areas with radioactive materials. Always notify the RSO with any concerns or questions.

## **POTENTIAL HAZARDS**

### **Fire or Explosion or Risk to Public Safety**

- a. Some materials may burn but most do not ignite readily.
- b. Radioactivity does not change flammability of materials.
- c. Call Emergency Response Telephone number on shipping paper first.
- d. Medical conditions take priority over radiological concerns. Care for injuries prior to decontamination. (Ex. If you are impaled by a radioactive leaking syringe, stabilize first, then worry about decontamination).
- e. Isolate uninjured persons or objects suspected to be contaminated. Decontaminate as appropriate.
- f. Wear protective clothing when working with known contamination.
- g. Small fires - dry chemical, CO<sup>2</sup>, water spray or regular foam.
- h. Large fires - water spray, fog (flooding amounts). Dike fire-control water for later disposal if possible.
- i. Call RSO and physicist for support.

## HAZMAT/D.O.T. TRAINING QUIZ

Employee Name: \_\_\_\_\_ Date: \_\_\_\_\_

Hospital/clinic location: \_\_\_\_\_

Score: \_\_\_\_\_ (90% required to pass. Retraining occurs for all who do not achieve a passing grade)

### CIRCLE ALL THAT APPLY

1. Hazardous material training is required for all employees involved with:
  - a. Packaging of packages containing radioactive materials
  - b. Marking of packages containing radioactive materials
  - c. Labeling of packages containing radioactive materials
  - d. Measuring of packages containing radioactive materials
  - e. Loading of packages containing radioactive materials
  - f. Transporting of packages containing radioactive materials
  
2. The T1 number is the:
  - a. Exposure measured at one (1) foot from the transporters vehicle
  - b. A gauge for the activity inside the package
  - c. Exposure measures at three (3) feet from the package
  - d. Measured in mR/foot
  
3. The highest exterior exposure would be a Yellow III package.  

True                      False
  
4. The surface exposure rate limit for a Yellow III package is:
  - a. 2000 mR/hr
  - b. 200 mr/hr
  - c. 50 mR/hr
  - d. 5 mR/hr
  - e. 0.5 mR/hr
  
5. The trigger limit for a wipe test on the exterior of a radioactive package is:
  - a. 2200 dpm/100 cm<sup>2</sup>
  - b. 200 dpm/100 cm<sup>2</sup>
  - c. 50 dpm/100 cm<sup>2</sup>
  - d. 5 dpm/100 cm<sup>2</sup>
  - e. 0.5 dpm/100 cm<sup>2</sup>

6. "Limited Quantity" packages are:
- a. The packages that are returned to the Nuclear Pharmacy
  - b. Yellow II's only
  - c. White I's only
  - d. Unlabeled
7. If you receive a package that appears to be leaking, you should:
- a. Call the Authorized Users for the facility
  - b. Call The RSO and shipper
  - c. Call the NRC
  - d. Call the FAA
8. Packages containing radioactive material must:
- a. Be secured at all times
  - b. Be under direct line of view when unsecured
  - c. Surveyed and wipe tested within three (3) hours of receipt during normal hours
  - d. All of the above
9. Emergency response information:
- a. Is not required for "Limited Quantities" packages
  - b. Is to be secured within the package and locked
  - c. Only occur with Yellow III packages
  - d. Should be accessible to the driver at all times
10. A Yellow III package contains the most radioactivity a person can ship.
- True                  False
11. If I am unsure or have questions about any of this HAZMAT training I should ask:
- \_\_\_\_\_ for assistance.
12. Security seals on received packages are:
- a. A protection mechanism to help prevent tampering.
  - b. Not required on "Limited Quantity" shipments back to the radiopharmacy.
  - c. Both A and B.
  - d. None of the above.

Please fax your quiz results to (734) 453-8851 for grading. Upon receiving a 90% or higher we will send you a certificate of completion.



**Connecticut Mulyispecialty Group, P.C.**  
**2110 Silas Deane Highway**  
**Rocky Hill, CT 06067**

June 30, 2015

U.S. Nuclear Regulatory Commission  
Materials Licensing Section  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Dear Sir:

Please amend Materials License number 06-14854-01 for the following change:

Delete the location of use at 478 Burnside Ave., Suite 201, East Hartford, CT.  
No studies using radioactive materials since May, 2014. The sealed sources have been transferred to the location of use at 1260 Silas Deane Highway, Suite 106, Wethersfield, CT.  
Enclosed is a copy of the closeout survey.

If there are any questions please call me at 734-395-7361 cell.

Sincerely,



Ray A. Carlson, M.S.  
Radiation safety Officer

## **Radiological Physics Service, Inc.**

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### **CLOSE OUT SURVEY**

Hartford Heart  
478 Burnside Ave., Suite 201  
E. Hartford, CT 06108

License: 06-14854-01

**RE:** Close out survey of the old nuclear medicine department.

1. Date of Survey: June 18, 2015
2. Diagram of the department and the wipe test results are attached.
3. The survey meter readings were less than 0.02 mR/hr for all areas.
4. The survey meter background reading was 0.02 mR/hr.
5. The survey meter used was a Ludlum model 14C (S/N 276199) with an pancake GM probe. It was last calibrated 7/02/14.
6. The wipe tests were assayed on an Ludlum 2200 well counter. The minimum detectable activity for Tc-99m is 27.6 dpm at 95% confidence.
7. The survey was performed by Ray A. Carlson, M.S.
8. The sealed sources moved to the new location of use at 1260 Silas Deane Hwy, Suite 106, Wethersfield, CT 06109.

All wipe tests were below the 2000 dpm limit and all GM survey meter readings were at background (0.02mR/hr).

**Radiological Physics Service, Inc.**

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**Wipe Test Results**

Hartford Heart  
478 Burnside Ave., Suite 201  
E. Hartford, CT 06108


License: 06-14854-01

**RE:** Close out survey of location

**Date:** June 18, 2015

Area	CPM	Net CPM	DPM
Background	210		
1	205	0	0
2	205	0	0
3	205	0	0
4	205	0	0
5	205	0	0
6	205	0	0
7	205	0	0
8	205	0	0

- All wipes were below the 2000 DPM limit.
- All wipe areas were surveyed with a GM survey meter and all areas recorded less than 0.02 mR/hr. Wipes were then analyzed in a gamma counter.

  
Ray A. Carlson, MS,  
Medical Physicist  
Radiological Physics Service

*fax recd 10-29-15*

This is to acknowledge the receipt of your letter application dated

6-30-15, and to inform you that the initial processing which includes an administrative review has been performed.

*Amend: 06-14854-01*  
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 589266.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.

NRC FORM 532 (RI)  
(6-96)

Sincerely,  
Licensing Assistance Team Leader