

William W. Backus Hospital
326 Washington St
Norwich, Ct 06360

December 3, 2013

Robert Gallagher
USNRC Region I
2100 Renaissance Blvd Ste 100
King of Prussia PA 19406

Mail Control 581527

Greetings:

In response to the deficiency letter dated November 25, 2013, we offer the following information:

1. We confirm that we no longer require authorization to possess and use radioactive materials permitted by 10 CFR 35.400 and 35.500.
2. We have no more of the Pd-103 or I-125 brachytherapy sources we used to use, and it has been more than three years since the discontinuation of the prostate brachytherapy program. We never owned any Gd-153 sealed sources for attenuation correction, so there is no documentation for their disposal.
3. We confirm that we will not be performing PET studies. Alliance Imaging provides PET/CT services on their mobile facility located on a van under their own USNRC RAM license.
4. Please see attached documentation of the location of RAM storage, preparation and dispensing areas and the description of the type, dimensions and thicknesses of shielding.
5. We presently use a Captus 55W well counter for wipe testing. We presently use Ludlum 14C G-M meters for area monitoring. We reserve the right to make ministerial changes.
6. We confirm that we will develop, implement and maintain written procedures for the safe use of unsealed byproduct materials that meet the requirements of 10 CFR 20.1011 and 20.1301.
7. We confirm that all patients treated under 10 CFR 35.300 will be outpatients releasable pursuant to 10 CFR 35.75.
8. Please remove Dr. Moran from our radioactive materials license.
9. We do not possess any sealed sources that do not meet the criteria in 10 CFR 35.65.
10. 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.
11. Either we will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10%

of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the requirements listed under "Criteria" in NUREG-1556, Vol. 9, Rev. 2, "Consolidated Guidance about Materials Licenses: Program-Specific Guidance About Medical Use Licenses."

12. Please confirm that we are not releasing any areas that were specific to the use of materials listed in 10 CFR 35.400.

Sincerely yours,

Jim Ricci, Supervisor Nuclear Medicine

RADSERV LLC
 340 Mixville Road
 Cheshire CT 06410
 31-Mar-10

William W. Backus Hospital
 326 Washington St
 Norwich CT 06360
 Nuclear medicine hot lab (30 mCi Tc-99m)

Radiation Shielding Survey

Equipment: hot lab
 Ludlum 3 s/n 149133 cal 3/5/10

Basis: 24 pt/day 5 days/wk 1 exp/pt 120 sec/exp

Tested at:
 n/a kVp n/a mA sec or mAs

Position		mr/hr	occ.fact.	mr/wk
background		0.03	n/a	n/a
A	Ecam 1	0.1	0.25	0.1
B	med rec	0.03	1	0.12
C	office	0.08	1	0.32
D	Ecam 2	0.1	0.25	0.1
E	staff area	0.1	0.25	0.1
F				#VALUE!
G				#VALUE!
above	OR	0.03	1	0.12
below	unoccup			#VALUE!
				#VALUE!

Public dose limit not exceeded. Acceptable.

Stuart R. Korchin
 Radiological Physicist

RADSERV LLC
340 Mixville Road
Cheshire CT 06410
31-Mar-10

William W. Backus Hospital
326 Washington St
Norwich CT 06360
Cardiac nuclear medicine hot lab (30 mCi Tc-9

Radiation Shielding Survey

Equipment: hot lab

Ludlum 3 s/n 149133 cal 3/5/10

Basis:

24 pt/day

5 days/wk

1 exp/pt

120 sec/exp

Tested at:

n/a

kVp

n/a

mA

sec or

mAs

Position

mr/hr

occ.fact.

mr/wk

background

0.03

n/a

n/a

A

hall

0.03

0.25

0.03

B

door

0.15

0.25

0.15

C

hall

0.08

0.25

0.08

D

toilet

0.03

0.25

0.03

E

card rehab

0.03

0.25

0.03

F

#VALUE!

G

#VALUE!

above

office

0.1 estimate

1

0.4

below

card cath

0.03

0.25

0.03

#VALUE!

Public dose limit not exceeded. Acceptable.

Stuart R. Korchin
Radiological Physicist

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RADSERV LLC
 340 Mixville Road
 Cheshire CT 06410
 31-Mar-10

William W. Backus Hospital
 326 Washington St
 Norwich CT 06360
 Ecam 1 (30 mCi Tc-99m)

Radiation Shielding Survey

Equipment: Siemens Ecam
 Ludlum 3 s/n 149133 cal 3/5/10

Basis: 8 pt/day 5 days/wk 1 exp/pt 1200 sec/exp

Tested at:
 n/a kVp n/a mA sec or mAs

Position		mr/hr	occ.fact.	mr/wk
background		0.03	n/a	n/a
A	door	0.03	0.25	0.1
B	hall	0.03	0.25	0.1
C	women's	0.03	0.25	0.1
D	men's	0.03	0.25	0.1
E	med rec	0.03	1	0.4
F	staff area	0.05	0.25	0.166667
G	hot lab	0.05	0.25	0.166667
above	OR	0.03	1	0.4
below	unoccup			#VALUE!
				#VALUE!

Public dose limit not exceeded. Acceptable.

Stuart R. Korchin
 Radiological Physicist

RADSERV LLC
340 Mixville Road
Cheshire CT 06410
31-Mar-10

William W. Backus Hospital
326 Washington St
Norwich CT 06360
Ecam 2 (30 mCi Tc-99m)

Radiation Shielding Survey

Equipment: Siemens Ecam
Ludlum 3 s/n 149133 cal 3/5/10

Basis: 8 pt/day 5 days/wk 1 exp/pt 1200 sec/exp

Tested at:
n/a kVp n/a mA sec or mAs

Position		mr/hr	occ.fact.	mr/wk
background		0.03	n/a	n/a
A	staff area	0.15	0.25	0.5
B	hot lab	0.03	0.25	0.1
C	med rec	0.08	1	1.066667
D	staff loung	0.2	0.25	0.666667
E	pt waiting	0.1	0.25	0.333333
F	hall	0.1	0.25	0.333333
G	door	0.15	0.25	0.5
above	OR	0.03	1	0.4
below	unoccup			#VALUE!
				#VALUE!

Public dose limit not exceeded. Acceptable.

Stuart R. Korchin
Radiological Physicist

RADSERV LLC
 340 Mixville Road
 Cheshire CT 06410
 31-Mar-10

William W. Backus Hospital
 326 Washington St
 Norwich CT 06360
 Ecam 3 (30 mCi Tc-99m)

Radiation Shielding Survey

Equipment: Siemens Ecam
 Ludlum 3 s/n 149133 cal 3/5/10

Basis: 8 pt/day 5 days/wk 1 exp/pt 1200 sec/exp

Tested at:
 n/a kVp n/a mA sec or mAs

Position	mr/hr	occ.fact.	mr/wk
background	0.03	n/a	n/a
A door	0.3	0.25	1
B hall	0.12	0.25	0.4
C door	0.2	0.25	0.666667
D nuc office	0.6	0.25	2
E biohaz	0.06	0.25	0.2
F stair	0.03	0.25	0.1
G back hall	0.3	0.25	1
above OR	0.03	1	0.4
below unoccup			#VALUE!
			#VALUE!

Public dose limit not exceeded. Acceptable.

Stuart R. Korchin
 Radiological Physicist