

# UAP CLINIC

March 26, 2013

U. S. Nuclear Regulatory Commission  
Materials Licensing Section  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

Dear Sir or Madam:

Union Associated Physicians Clinic would like to amend its Byproduct Materials License, number 13-32039-01, to remove 221 South 6<sup>th</sup> street, Terre Haute, IN as an address of use. Enclosed is a close out survey stating compliance with 10 CFR 20, Subpart E for the address of use. All activities authorized by this license have ceased at this location and all radioactive materials have been disposed of by decay in storage or transferred to the new use location, 1429 North 6<sup>th</sup> street, Terre Haute, IN.

**DOWNTOWN**

221 S. Sixth St.  
Terre Haute, IN 47807

PH: 812.242.0564  
FAX: 812.242.3848

**Cardiology**

PH: 812.242.3175  
FAX: 812.242.3543

**Family Medicine**

PH: 812.242.3120  
FAX: 812.242.3846

**Gastroenterology**

PH: 812.242.3390  
FAX: 812.242.3384

**General, Thoracic & Vascular Surgery**

PH: 812.242.3100  
FAX: 812.242.3795

**Imaging**

PH: 812.242.3256  
FAX: 812.242.3839

**Internal Medicine**

PH: 812.242.3140  
FAX: 812.242.3499

**Pediatrics**

PH: 812.242.3105  
FAX: 812.242.3153

**Pharmacy**

PH: 812.242.3855  
FAX: 812.242.3428

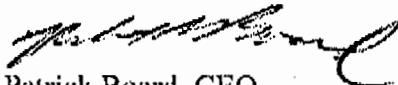
**Urology**

PH: 812.242.3130  
FAX: 812.242.3596

uapclinic.com

Should there be any questions concerning this request, please feel free to contact Mr. Timothy Greist, DABR of Medical Physics Consultants at [tgreist@mpephysics.com](mailto:tgreist@mpephysics.com) or 310-975-4149.

Sincerely,



Patrick Board, CEO  
Union Associated Physicians, LLC



Close-out survey of  
Union Associated Physicians, 221 South 6<sup>th</sup> Street, Terre Haute, Indiana, 47807

Performed by: Timothy Greist, DABR  
Medical Physics Consultants, Inc.

Radioactive materials at this address of use were limited to diagnostic medical procedures in humans and the use of sealed sources for equipment calibration and quality control.

Wipe tests for removable radioactive contamination were taken on 03/26/13 and analyzed in a Ludlum Model 243 (S/N: 145366) Shielded Well Scintillator coupled to a Ludlum Model 2200 (S/N: 138705) Scaler Ratemeter. A window of 50 to 400 keV was used to analyze the wipes. The efficiency of this system for cobalt-57 with a window of 50-400 keV is 1.08 dpm/cpm. The results of the wipe tests are enclosed.

The radiation levels survey was performed on 03/26/13 by Patrick Byrne and Timothy Greist, using a Bicon Surveyor Model 50 Geiger-Muller survey meter (S/N: A051N). The meter was calibrated on 04/2/12. The range used for the radiation level survey was 0.0 to 0.5 mR/hr.

#### Visual Inspection

The area was visually inspected to ensure that all radioactive waste had been removed. No radioactive material was located in the area.

#### Radiation Level Survey

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

#### Sealed Sources

All sealed sources have been transferred to the replacement facility, 1429 North 6<sup>th</sup> street, Terre Haute, IN, 47807. The new facility is an approved use location on the same USNRC Materials License, 13-32039-01. No sealed source had ever been found to be leaking. Enclosed is a copy of the results of the last leak tests performed on the sealed sources prior to the move.

### Removable Contamination Survey Results

Wipe samples were counted in a Ludlum Model 243 Shielded Well Scintillator (S/N: 145366) coupled to a Ludlum Model 2200 Scaler Ratemeter (S/N: 138705). The efficiency of this system for Cobalt-57 with a counting window of 50-400 keV is 1.08 dpm/cpm. Background on this window was 263 counts per minute.

Wipe Number	Gross counts per minute	Net counts per minute	Disintegrations per minute
1	250	0	0
2	262	0	0
3	260	0	0
4	254	0	0
5	242	0	0
6	250	0	0
7	266	3	3.24
8	264	1	1.08
9	252	0	0
10	242	0	0
11	266	3	3.24
12	278	15	16.2
13	268	5	5.4
14	246	0	0
15	250	0	0
16	208	0	0
17	292	29	31.32
18	220	0	0
19	232	0	0
20	254	0	0
21	258	0	0
22	260	0	0
23	286	23	24.84
24	244	0	0
25	284	21	22.68
26	272	9	9.72
27	292	29	31.32
28	246	0	0
29	258	0	0
30	218	0	0
31	246	0	0
32	248	0	0
33	262	0	0
34	222	0	0
35	282	19	20.52
36	298	35	37.8
37	274	11	11.88

38	250	0	0
39	270	7	7.56
40	248	0	0
41	244	0	0
42	274	11	11.88
43	282	19	20.52
44	246	0	0

\*Please refer to the attached survey map for wipe locations.

Maximum removable contamination occurred in area 46. Gross count rate = 298 cpm/100cm<sup>2</sup>. Net count rate (gross minus background) = 298 - 263 = 35 cpm/100cm<sup>2</sup>. Net removable disintegrations per minute = 35 cpm/100cm<sup>2</sup> x 1.08 dpm/cpm = 37.8 dpm/100cm<sup>2</sup>.

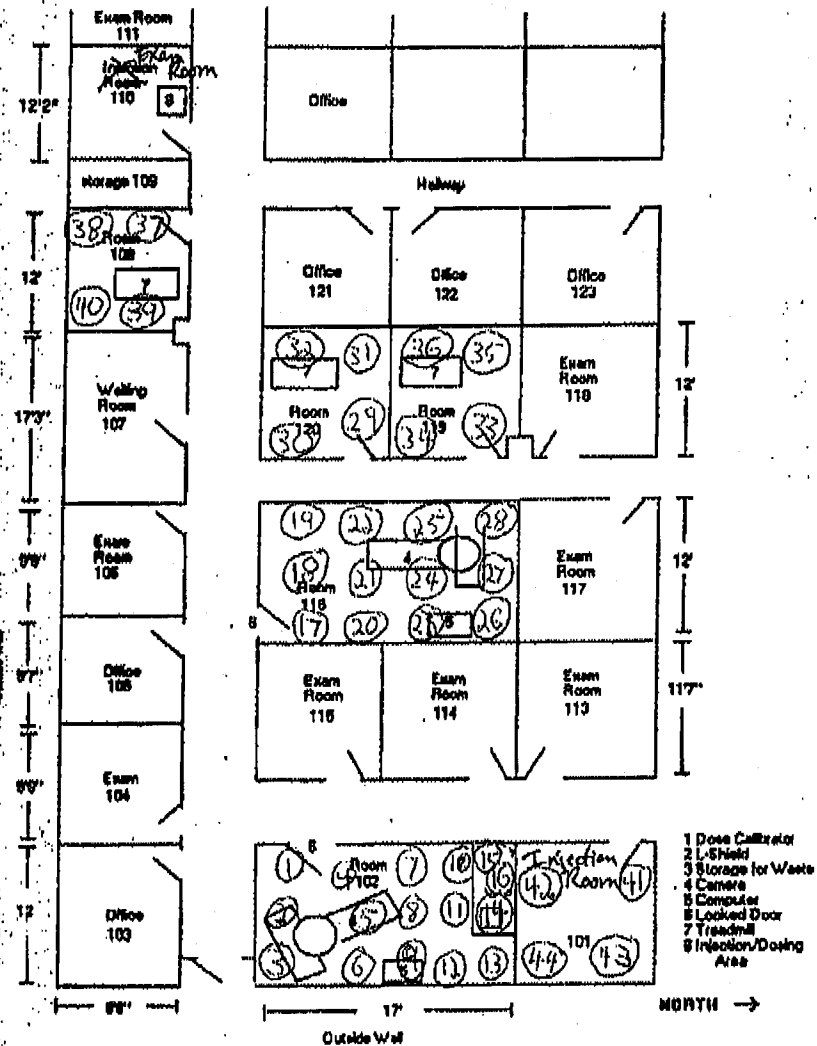
Conclusion

As of 3/26/13, all radioactive materials have been removed from the area of use and no removable contamination is present.

FACILITY DIAGRAM

B.15 Item 9

NUCLEAR MEDICINE DEPT: 221 S. 8th St, Terre Haute, IN 47807-4214



Directly below the nuclear medicine department is office space.  
 Directly above the nuclear medicine department is outside.



**Sealed Source Leak Test**

Licensee: Union Associated Physicians, LLC.

Date: 02/26/13

Performed by: Tim Greist

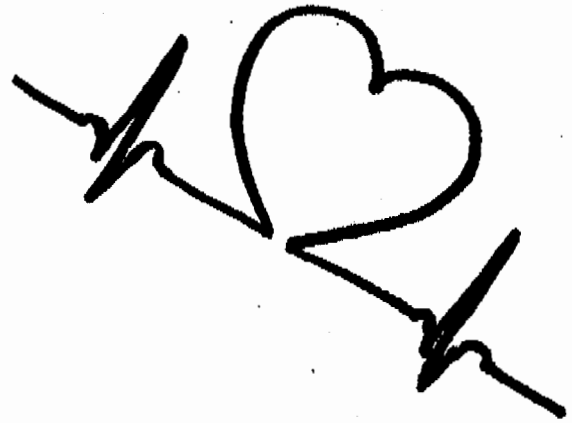
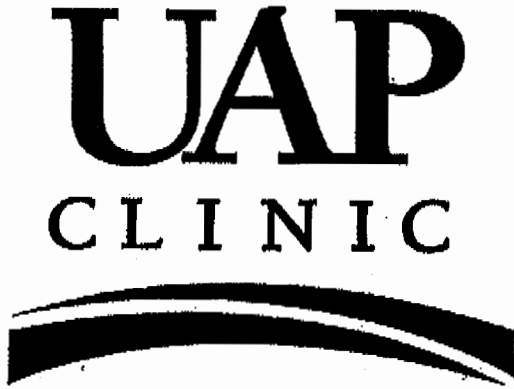
Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N
Cs-137	Vial	224 uCi	06/27/98	Nuc. Card.	NES356	S356037028
Current Activity: 159.6 uCi						
Co-57	Flood	10 mCi	07/08/11	Rad Qual	BM01-10	BM01101115920
Current Activity: 2.16 mCi						
Co-57	Flood	10 mCi	01/02/13	Rad Qual	BM01-10	BM01101233820
Current Activity: 8.688 mCi						

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

Nuclide	MDA	Background
Cs-137	$2.0 \times 10^{-4}$ uCi	145 counts/1 min
Ba-133	$8.8 \times 10^{-5}$ uCi	204 counts/1 min
Co-57	$1.7 \times 10^{-5}$ uCi	53 counts/1 min

RADIATION SAFETY OFFICER: \_\_\_\_\_ *[Signature]*



**FACSIMILE TRANSMISSION  
COVER SHEET**

TO: Dennis O'dowd FROM: Kristi Howe/Union Associate  
Physicians Clinic

FAX NO.: (630) 515-1078 FAX NO.: (812) 231-4740

PHONE NO.: \_\_\_\_\_ PHONE NO.: \_\_\_\_\_

DATE: 4/16/13 TIME: 11:00 a.m.

PAGES INCLUDING COVER: 7

COMMENTS: Additional information for control number  
579751

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