

A Union Health partner

October 31, 2017

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

Dear Sir or Madam:

Union Associated Physicians, LLC would like to terminate its Byproduct Materials License, Number 13-32039-01. Licensed materials use ceased as of September 22, 2017. Supporting documentation for this request is enclosed.

If there are any questions concerning this license amendment, please contact our nuclear medicine physicist, Mr. Bryce A. Caudle, at 317-443-9035, by fax at 317-581-1931, or by email at beaudle@mpcphysics.com.

Sincerely,

Edward M. Carne Chief Administrative Officer

UAP CLINIC 221 S. Sixth St. Terre Haute, IN 47807 PH: 812.232.0564 FAX: 812.242.3848 uapclinic.com

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	NRC FORM 314 U.S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-002	8 EXPIRES: 02/29/2020			
Durion Associated Physicians Clinic, LLC 13-32039-01 221 South 6th Street 07/31/2023	(02-2017) 10 CFR 30.36()(1); 40.42()(1); 70.38()(1); and 72.54(k)(5)(1)(1) CERTIFICATE OF DISPOSITION	Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used b burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 FS3), U.S. Nuclear Regulatory Commission Washington, DC 20555-0001, or by e-mail to Infocollects. Resource@mc: pov, and to the Deak Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If means used to impose an information collection does not display a currently vaid ONB control number, the NRC may no				
221 South 6th Street 07/31/2023 A. LICENSE STATUS (Check the appropriate box) This license has not yet expired; please terminate it. B. DISPOSAL OF RADIOACTIVE MATERIAL (Check the appropriate boxs and complete as necessary. If additional space is medide, provide attachments) I. No radioactive materials have ever been procured or possessed by the licensee under this license. 2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license. 2. All activities authorized by this license to license to be box: Union Hospital, Inc. (NRC license number 13-16457-01) b. Disposal of radioactive materials:	LICENSEE NAME AND ADDRESS	LICENSE NUMBER	DOCKET NUMBER			
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B. DISPOSAL OF PADIOACTIVE MATERIAL (Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments) The licensee, or any individual executing this certificate on behalf of the licensee, certifies that: 1. No radioactive materials have ever been procured or possessed by the licensee under this license. 2. All activities subnorsed by this license have cased, and all ardioactive materials proved and/or possessed by the licensee under this license. 2. All activities subnorsed by this license have cased, and all ardioactive materials proved and/or possessed by the licensee under this license. 2. Transfer of radioactive materials to the licensee listed below: Union Hospital, Inc. (NRC license number 13-16457-01) bisposal of radioactive materials: 1. Directly by the licensee: 2. By licensed disposal site: 3. By waste contractor: 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. C. SURVEYS PERFORMED AND REPORTED A radiation survey was conducted by the licensee. The survey confirms: A at adation survey results: A a copy of the radiatority is within the limits of 10 CFR 20, Subpart E, and is ALARA. A copy of the radiation survey results: A copy of the radiation survey results: A ardiation survey is not required as only sealed sources were ever possessed under this license, and A radiation survey is not required as only sealed sources were ever possessed under this license, and A radiation survey is not required as only sealed sources were ever possessed under this license, and A radiation survey is not required as only sealed sources were ever possessed under this license, and A radiation survey is not required as only sealed sources were ever possessed under this license, and A radiation survey is not required a						
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Close-out survey of Nuclear Medicine Department, Union Associated Physicians 1429 North 6th Street, Terre Haute, IN 47807

Performed by: Bryce A. Caudle, M.S. Medical Physics Consultants, Inc.

Radioactive materials usage at this location of use was limited to materials licensed under 10 CFR 35.100 and 35.200. Sealed radioactive sources were possessed and used for equipment quality control.

Wipe tests for removable radioactive contamination were taken on 10/19/17 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 is 1.09 dpm/cpm. The results of the wipe samples are enclosed.

The radiation levels survey was performed on 10/17/17 by Bryce Caudle, using a Ludlum Model 14C Geiger-Muller survey meter (S/N: 146306) with a pancake probe. The meter was calibrated on 2/23/17. The range used for the radiation level survey was 0.0 to 0.2 mR/hr.

Visual Inspection

1

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

Radiation Level Survey

No area demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Sealed Sources

All sealed sources have been transferred to the nuclear medicine department of Union Hospital, Inc., NRC license number 13-16457-01. A letter of acknowledgement of receipt from Union Hospital is enclosed. No sealed source had ever been found to be leaking and a copy of the most recent leak test results is enclosed.

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 is 1.09 dpm/cpm.

Background: 321 counts per minute

40	307	0	0
41	331	10	10.9
42	346	25	27.25
43	343	22	23.98
44	332	11	11.99
45	321	0	0
46	371	50	54.5
47	337	16	17.44

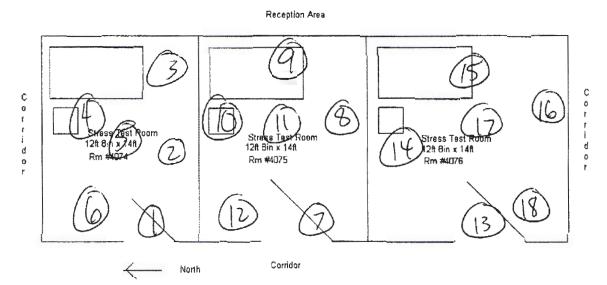
*Please refer to the attached survey map for wipe locations.

Maximum removable contamination occurred in area 46. Gross count rate = $371 \text{ cpm}/100 \text{ cm}^2$. Net count rate (gross minus background) = $371 - 321 = 50 \text{ cpm}/100 \text{ cm}^2$. Net removable disintegrations per minute = $50 \text{ cpm}/100 \text{ cm}^2 \text{ x} 1.09 \text{ dpm/cpm} = 54.5 \text{ dpm}/100 \text{ cm}^2$.

Conclusion

All radioactive materials have been removed from the area of use and no removable contamination is present.

Nuclear Medicine Department UNION ASSOCIATED PHYSICIANS CLINIC 1429 North 6th Street Terre Haute, IN 47807

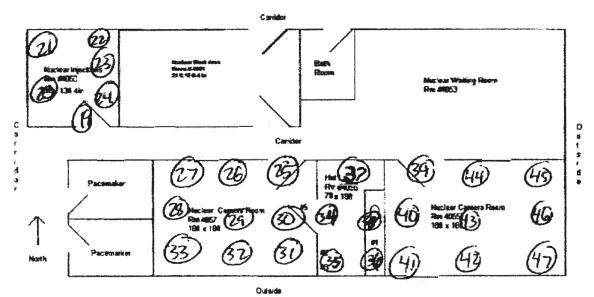


Directly below the nuclear medicine department are the exam rooms. Directly above the nuclear medicine department is the roof.

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Attachment 9.1

FACILITY DIAGRAM Nuclear Medicine Department UNION ASSOCIATED PHYSICIANS CLINIC 1429 North 6th Street Terre Haute, IN 47807



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#1.Dose prep area.

#2. Package receipt

#3.Package return

#4.Waste storage.

#5.Lockable Hot Lab Door

Directly below the nuclear medicine department are the exam rooms. Directly above the nuclear medicine department is the roof.

October 27, 2017

Mr. Bryce Caudle Medical Physics Consultants, Inc. 50 East 91st Street, Suite 211 Indianapolis, IN 46240

Dear Mr. Caudle:

As part of the process of establishing a Nuclear Cardiology Service within Union Hospital, UAP, LLC has disestablished their own Nuclear Medicine program and is in the process of decommissioning the facility identified under NRC License #13-32039-01. UAP maintained 5 sealed sources which have now been transferred to the new department and are held under the Union Hospital NRC License #13-16457-01. The sources are listed below:

	Isotope	Form	Nominal Activity	Cal Date	Serial #
1.	Cs-137	Rod source	500 nCi	01/01/1998	56742
2.	Cs-137	Vial source	224 μCi	06/27/1998	S356037028
3.	Cs-137	Button	1.0 μCi	11/01/1997	3367
4.	Cs-137	Button	10 μCi	02/01/2006	1140-97-7
5	Co-57	Flood Source	15 mCi	10/16/2016	BM01L1516260101

This information is being provided to assist in your efforts on behalf of UAP,LLC in their decommissioning process. Please contact me if you have any questions regarding this transfer of assets. My hospital extension is (812) 238-7275.

Sincere

Dean A. Taylor, M.S.

Radiation Safety Officer Union Hospital Health Group

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