



**INDIANA UNIVERSITY**

OFFICE OF ENVIRONMENTAL, HEALTH,  
AND SAFETY MANAGEMENT

Bloomington

July 1, 2013

Kevin Null  
Materials Licensing Branch  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Rd., Suite 210  
Lisle, Illinois 60532-4352

Re: Termination of License Number: 13-26370-01

Dear Mr. Null:

This is to request that NRC License (No. 13-26370-01) issued to Indiana University – Purdue University at Columbus be terminated. As indicated in the attached Form 314, all remaining radioactive material was disposed by commercial waste contractor on February 3, 2000. No additional radioactive material was acquired since that time. Also attached is a copy of the results of the close-out survey performed for this location, which confirmed no residual contamination.

In conjunction with this request, I will be requesting, under separate cover, that this "Columbus" campus of Indiana University – Purdue University not be included as a site location of use under the Bloomington Campus License (No. 13-00108-05) as previously requested in my March 11, 2013 letter to you (also attached). The Bloomington campus license (No. 13-00108-05) is currently under NRC review for renewal.

Thank you for your consideration of this request. Please contact me at (812) 855-3230 with any questions that you may have.

Sincerely,

Gregory P. Crouch, MPH, MS  
Director of Radiological Safety  
"University" Radiation Safety Officer (Bloomington and Regional Campuses)  
Indiana University

1001 E. Third Street  
Jordan Hall 071  
Bloomington, IN 47405

Attachments

RECEIVED JUL 09 2013

### CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), 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.

LICENSEE NAME AND ADDRESS  
  
Indiana University - Purdue University  
at Indianapolis - Columbus Campus

LICENSE NUMBER: 13-26370-01  
DOCKET NUMBER: 030-32591  
LICENSE EXPIRATION DATE: March 31, 2014

#### A. LICENSE STATUS (Check the appropriate box)

- This license has expired.  This license has not yet expired; please terminate it.

#### B. DISPOSAL OF RADIOACTIVE 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 authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner.

a. Transfer of radioactive materials to the licensee listed below:

b. Disposal of radioactive materials:

1. Directly by the licensee:

2. By licensed disposal site:

3. By waste contractor:

ADCO Services, Inc  
Disposed: 02/03/2000

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

1. A radiation survey was conducted by the licensee. The survey confirms:  
 a. the absence of licensed radioactive materials  
 b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.

2. A copy of the radiation survey results:

a. is attached; or  b. is not attached (Provide explanation); or  c. was forwarded to NRC on: \_\_\_\_\_ Date

3. A radiation survey is not required as only sealed sources were ever possessed under this license, and

a. The results of the latest leak test are attached; and/or  b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME: Greg Grouch TITLE: R.S.O. TELEPHONE (Include Area Code): 812 855 3230 E-MAIL ADDRESS: gcrouch@iu.edu

Mail all future correspondence regarding this license to:  
1001 E. Third St., Rm 071, Bloomington, IN 47405

#### C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE: Greg Grouch, R.S.O. SIGNATURE: Greg Grouch DATE: 7/1/13

WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 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.

IU-PU - Columbus  
Lic # 13-26370-01

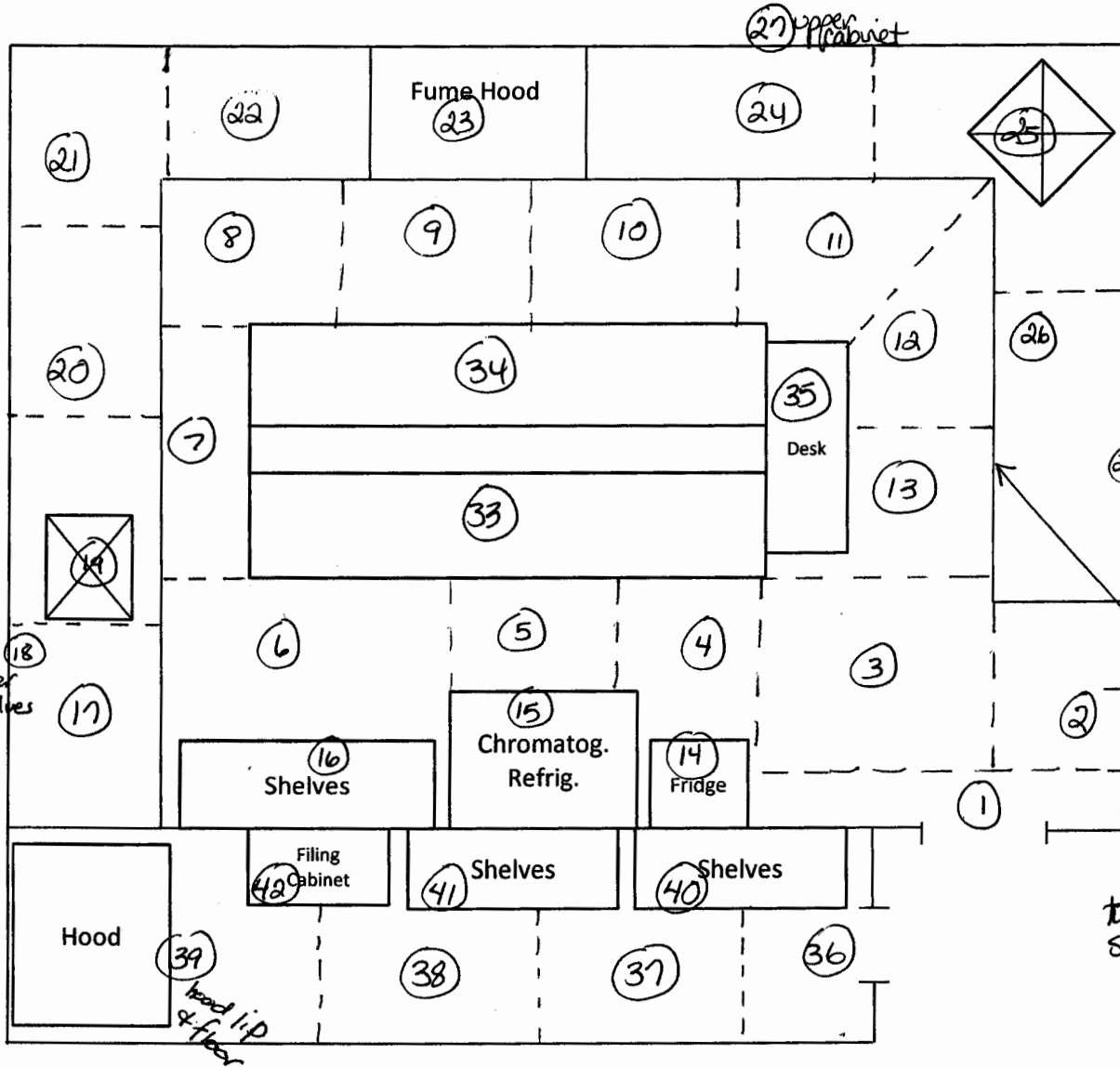
Survey performed  
6/14/13  
Mavis Jocal

Close-out Survey - Columbus campus - Research Building - Rooms 106 - 107

31 drawer handles along this wall →

32 drawer handles along this wall ↓

30 drawer handles along this wall ↓



Page 1 of 1  
Date

Quantum 1701 A-02 - Serial# 42391

3 22 10 PM  
P01000101 - P01000101

# IU-PU - Columbus

## Lic # 13-26370-01

Assay Definition-

Assay Description:

Assay Type: CPM

Report Name: Report1

Output Data Path: C:\Packard\Tricarb\Results\Chris\RadSamples\20130614\_1315

Raw Results Path: C:\Packard\Tricarb\Results\Chris\RadSamples\20130614\_1315\20130614\_1315.results

Assay File Name: C:\Packard\TriCarb\Assays\RadSamples.lsa

Count Conditions-

Nuclide: wideA

Quench Indicator: tSIE/AEC

External Std Terminator (sec): 0.5 2s%

Pre-Count Delay (min): 0.00

Quench Set: n/a

Count Time (min): 1.00

Count Mode: Normal

Assay Count Cycles: 1

#Vials/Sample: 1

Repeat Sample Count: 1

Calculate % Reference: Off

Background Subtract: Off

Low CPM Threshold: Off

2 Sigma % Terminator: Off

Regions	LL	UL
A	0.0	2000.0
B	0.0	156.0
C	0.0	19.0

Count Corrections-

Static Controller: On

Colored Samples: n/a

Coincidence Time (nsec): 18

Luminescence Correction: Off

Heterogeneity Monitor: n/a

Delay Before Burst (nsec): 75

Half Life-

Half Life Correction: Off

Regions	Half Life	Units	Reference Date	Reference Time
A				
B				
C				

Cycle 1 Results

S#	Count Time	CPMA	CPMB	CPMC	SIS	tSIE
1	1.00	37	24	13	450.25	490.41
2	1.00	29	25	11	249.47	488.65
3	1.00	28	19	11	589.38	480.72
4	1.00	44	36	26	199.86	417.49
5	1.00	29	22	15	311.01	476.50
6	1.00	39	24	11	525.97	466.55
7	1.00	21	14	11	581.35	467.47
8	1.00	26	14	6	353.29	479.84
9	1.00	41	29	21	437.24	462.45
10	1.00	37	28	11	298.03	480.47
11	1.00	32	16	8	521.22	491.02
12	1.00	25	21	8	119.57	470.92

*IU-PU - Columbus  
Lic# 13-26370-01*

13	1.00	29	23	9	280.63	481.21
14	1.00	32	21	11	313.43	459.89
15	1.00	21	17	9	281.37	494.46
16	1.00	36	23	10	541.02	479.89
17	1.00	43	32	14	499.77	475.21
18	1.00	25	20	14	134.47	461.72
19	1.00	27	17	12	440.28	497.02
20	1.00	21	11	7	480.85	481.16
21	1.00	39	28	16	425.47	484.56
22	1.00	25	17	10	447.31	461.89
23	1.00	29	21	9	270.17	474.95
24	1.00	45	37	25	218.40	464.53
25	1.00	47	43	32	188.38	472.02
26	1.00	36	18	12	626.35	481.73
27	1.00	29	18	11	473.72	439.00
28	1.00	46	34	27	326.72	436.84
29	1.00	28	19	9	392.08	484.83
30	1.00	33	19	12	354.39	465.25
31	1.00	36	27	16	425.99	483.11
32	1.00	41	26	15	508.61	470.81
33	1.00	27	23	17	222.23	437.35
34	1.00	33	25	13	339.99	479.89
35	1.00	51	39	19	268.68	485.56
36	1.00	29	19	13	513.74	450.09
37	1.00	32	19	13	528.15	454.00
38	1.00	60	51	38	216.63	434.98
39	1.00	40	32	18	255.67	492.28
40	1.00	33	24	13	293.50	471.86
41	1.00	27	22	14	187.70	496.15
42	1.00	28	19	11	316.01	501.34



## INDIANA UNIVERSITY

OFFICE OF ENVIRONMENTAL, HEALTH,  
AND SAFETY MANAGEMENT

Bloomington

March 11, 2013

Kevin Null  
Materials Licensing Branch  
U. S. Nuclear Regulatory Commission  
2443 Warrenville Rd., Suite 210  
Lisle, Illinois 60532-4352

Re: License Number: 13-00108-05

Dear Mr. Null:

In accordance with the recent administrative decision by the Executive Vice President of Indiana University (see enclosed letter), this is to request that Materials License (No. 13-00108-05) issued to the Bloomington campus of Indiana University (IUB) be amended to authorize the use of certain licensed material at the Columbus Regional Campus of Indiana University – Purdue University (IUPUC). Specifically, Item 10 should be amended to add:

10. C. Licensed material listed in Subitems A., B., and C. may be used at the licensee's facilities at the Indiana University – Purdue University Columbus Campus, 4601 Central Ave., Columbus, Indiana 47203

This request is part of the same university initiative to consolidate NRC licensing for regional IU campuses originally communicated by my September 6, 2012 letter to the NRC regarding the IU South Bend (IUSB) campus. The amendment adding IUSB as a site location under the IU Bloomington campus license was granted by the NRC on November 7, 2012.

In general, procedures for radioactive material authorization and use at the IUPUC campus will be as described in documents referenced by Item 27 of the current Bloomington campus license (No. 13-00108-05). However, certain operational issues such as radioactive material receipt will be addressed by procedures developed specifically for the IUPUC location. Audits of licensed activities at the IUPUC campus will be conducted by the Radiation Safety Officer (or designated radiation safety staff member) at a frequency appropriate for the level of risk posed by the types and amounts of radioactive material in use (but at a minimum of 2 times each calendar year). The audit will include a review of user inventory and survey records, an evaluation of user knowledge and training through discussion and observation of work practices, provision of performance-based instruction to users, evaluation of compliance with permit conditions and radiation safety rules, and performance of a radiation survey of user work areas.

Upon receipt of this requested amendment, I will schedule a visit to the IUPUC campus to review all previous uses (and any proposed new uses) of NRC licensed material with appropriate members of the IUPUC faculty and staff. In addition, within 90 days of the receipt of this amendment, IUB Radiation Safety staff members will conduct comprehensive contamination surveys of all previous locations where NRC licensed materials were used or stored.

Concurrent with the issuance of this requested amendment to NRC Materials License No. 13-00108-05, NRC Materials license No. 13-26370-01 issued to "Indiana University - Purdue University - Columbus" should be discontinued.

Please contact me at (812) 855-3230 with any questions that you may have on this matter.

Sincerely,



Gregory P. Crouch, M.P.H., M.S.  
Director of Radiological Safety  
University Radiation Safety Officer

Jordan Hall, Room 071  
1001 E. Third Street  
Bloomington, IN 47405

Enclosure: November 19, 2012 Memorandum from VP Applegate to IUPUC Chancellor

**CERTIFIED MAIL™**

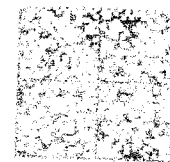
19-140-15

**Ψ INDIANA UNIVERSITY**  
**BLOOMINGTON**

Gregory P. Crouch, MS, MPH  
Indiana University  
Jordan Hall, Room 071  
1001 E. Third Street  
Bloomington, IN 47405-6801



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\$ 06.31  
JUL 02 2013

**RETURN RECEIPT  
REQUESTED**

Kevin Null  
Materials Licensing Branch  
U.S. Nuclear Regulatory Commission  
2443 Warrenville R.D., Suite 210  
Lisle, Illinois, 60532-4352

60532435260

