

## Casey, Colleen

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**From:** Rhonda Lennon [rhonda.lennon@yahoo.com]  
**Sent:** Thursday, July 19, 2012 4:56 PM  
**To:** Casey, Colleen  
**Cc:** William Breeden  
**Subject:** License 13-26797-01  
**Attachments:** NRC FORM 314.close out survey.pdf

Colleen,

Attached is a letter to terminate our License 13-26797-01 along with NRC Form 314.

If you have have any questions please feel free to contact myself or William Breeden.

Thank you,

*Rhonda F. Lennon, Practice Manager  
Columbus Diagnostic Imaging  
790 Creekview Drive  
Columbus, IN 47201  
812-373-2111*



July 29, 2012

United States Nuclear Regulatory Commission  
Region III  
2443 Warrenville Road, Suite 210  
Lisle, IL 60532-4352

**RE: License Number 13-26797-01**

Dear Colleen Carol Casey:

This is a formal request to terminate our License 13-26797-01. Attached is a Certificate of Disposition of Materials along with the Close out survey completed on July 18, 2012 by William K Breeden, III, MS, DABR.

Please contact our Administrator, Rhonda Lennon at 812/376-1000 for further clarification if you desire.

Sincerely,



Robert A DeWeese, MD

Radiation Safety Officer

Columbus Imaging Associates d/b/a Columbus Diagnostic Imaging

<b>LICENSEE NAME AND ADDRESS</b> Columbus Imaging Associates, d/b/a Columbus Diagnostic Imaging 790 Creekview Drive Columbus, Indiana 47201	<b>LICENSE NUMBER</b> 13-26797-01	<b>DOCKET NUMBER</b>
	<b>LICENSE EXPIRATION DATE</b>	

**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:  
 Eckert and Ziegler Isotope Products, Inc. dba Isotope Products Laboratories, California Lic. #1509-19 Cary Renquist, RSO  
*# 661-309-1010*

b. Disposal of radioactive materials:  
 1. Directly by the licensee:  
 All radioactive waste that was being held for as decay-in storage, has been disposed of properly as it has been held for greater than 10 half-lives, and was indistinguishable from background exposure rate levels. See attached log.

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**

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	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Rhonda Lennon	Practice Manager	812-376-1000	rhonda.lennon@yahoo.com

Mail all future correspondence regarding this license to  
 Rhonda Lennon at address noted above.

**C. CERTIFYING OFFICIAL**  
 I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE	SIGNATURE	DATE
Rhonda Lennon, Manager	<i>[Signature]</i>	7/19/12

**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.**

Clouse out survey for Columbus Imaging Associates dba Columbus Diagnostic Imaging  
 6/18/2012 USNRC Materials License # 13-26797-01

Location	Location Description	Exposure Rate (mR/hr)	Wipe activity(dpm/100cm <sup>2</sup> )
1	Dose prep area	0.02	42.1
2	Dose calibrator	0.02	42.1
3	Rad waste bins (empty)	0.02	42.1
4	Seald Source box(empty)	0.02	42.1
5	patient injection area	0.02	40.3
6	gamma camera	0.01	40.3
7	computer console	0.02	40.3
8	hot lab door and handle	0.02	18
9	imaging room door and handle	0.02	15
10	hot lab floor	0.02	27
11	hot lab floor	0.02	29
12	hot lab floor	0.01	44
13	hot lab floor	0.02	44
14	hot lab floor	0.02	32
15	hot lab floor	0.02	33
16	imaging room floor	0.02	27.5
17	imaging room floor	0.02	27.9
18	imaging room floor	0.01	32
19	imaging room floor	0.02	47
20	imaging room floor	0.02	31
21	desk	0.02	20
22	hot lab counter	0.02	4
23	hot lab sink	0.02	14
24	sharps shielding box (empty)	0.01	9

Wipe tests measured with a Capintec CAPRAC S/N: 00658 last calibrated 4/6/12  
 Exposure rate surveyed with Ludlum 14C S/N 101782 last calibrated 3/30/12

Perfomed by William K. Breeden, III, MS, DABR

*William K. Breeden, III MS DABR 7/18/12*

*All sealed sources above exempt quantity have been returned to manufacturer.*

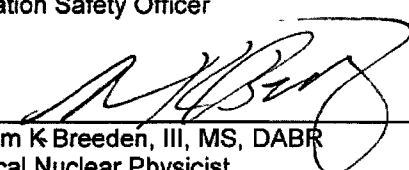
# Medical Physics Survey Sealed Source Inventory

Facility:	Columbus Diagnostic Imaging	Department:	Nuclear Medicine
Location:	Columbus, Indiana	Date:	July 18, 2012

Nuclide	Activity	Date	Model	Serial No	Type	Location	Present
Cs-137	219.8uCi	8/1/97	RV-137-200V	559-162-7	Dose Calibrator Vial	Hot Lab	No returned to manufacturer
Cs-137	0.1065uCi	8/1/97	IPL	488-31-2	Rod	Hot Lab	No, returned to manufacturer
Cs-137	1.0 uCi	12/95	None	4646	Button	Ludlum Survey Meter	Yes, exempt quantity to be sold with camera
Cs-137	1.0 uCi	12/95	None	4656	Button	Ludlum Survey Meter	Yes, exempt quantity to be sold with camera
Co-57	10mCi	9/7/08	BM01-10	BM011008220102	Flood	Hot Lab	No, returned to manufacturer

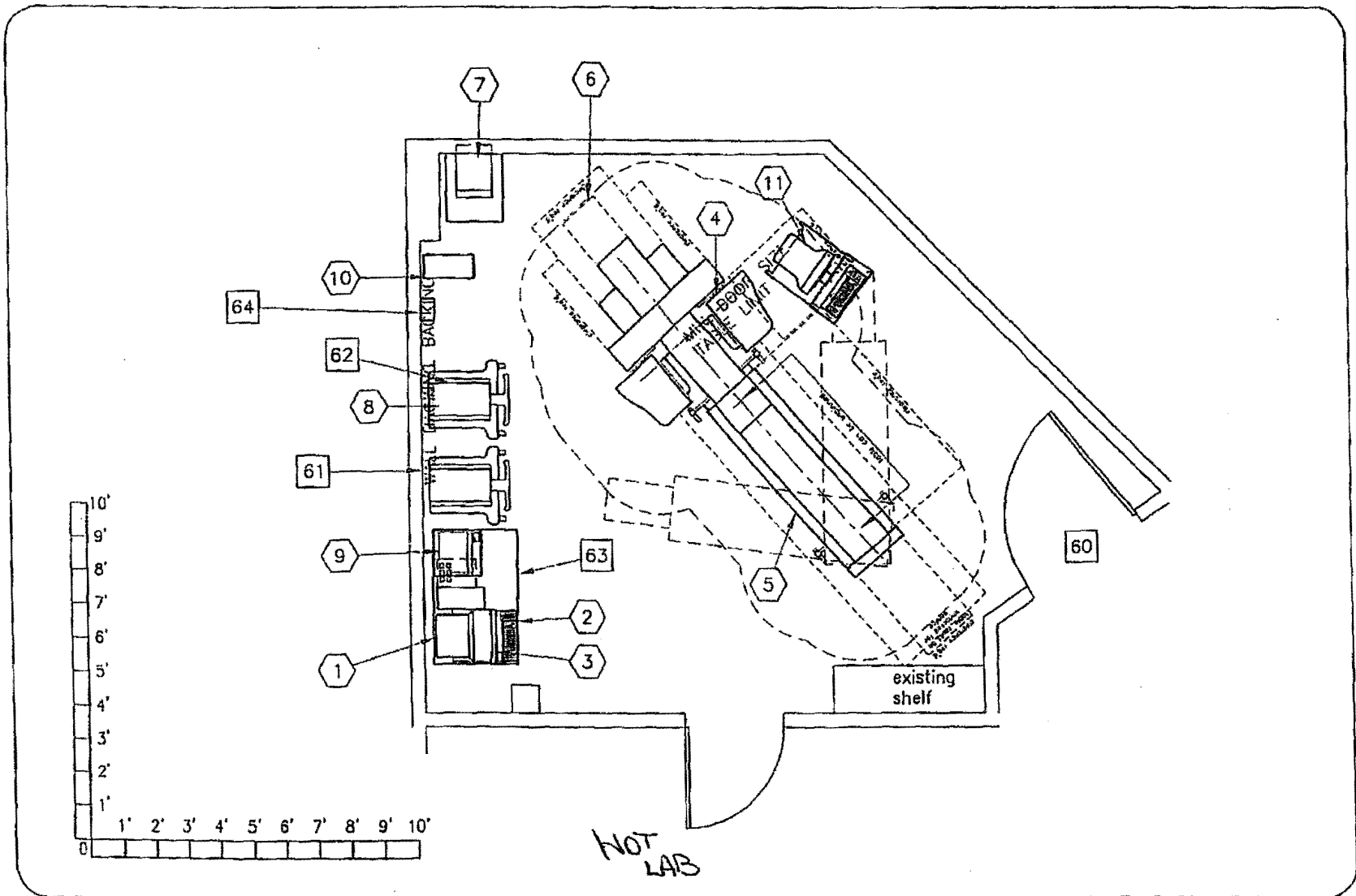
Comments: Ambient Exposure Rate Survey of Sealed Sources ( Ludlum 14C S/N:141804, 0.01 mR/hr).

\_\_\_\_\_  
Radiation Safety Officer

  
\_\_\_\_\_  
William K Breeden, III, MS, DABR  
Medical Nuclear Physicist







PRELIMINARY PLANNING ONLY

PROJECT TITLE:  
**COLUMBUS DIAGNOSTIC IMAGING  
 NUCLEAR ROOM – MILLENIUM MG**  
 COLUMBUS, INDIANA  
 SCHEME NO.: 08INA080 DRAWN BY: TLD DATE: 07-22-08

THIS LAYOUT MUST BE APPROVED BEFORE  
 FINAL DRAWINGS CAN BE STARTED. THANK YOU

CUSTOMER \_\_\_\_\_ DATE: \_\_\_\_\_  
 GE Project Manager \_\_\_\_\_  
 Installation \_\_\_\_\_ DATE: \_\_\_\_\_

 **GE Healthcare Technologies**  
 Installation Services

Milwaukee, Wisconsin

This equipment layout indicates the placement and interconnection of the indicated equipment components. There may be federal, state and/or local requirements that could impact the placement of these components. It remains the Customer's responsibility for ensuring the site and final equipment placement complies with all applicable federal, state and/or local requirements.





# Radioactive Materials Shipment Receipt and Return Container Survey Record

<b>Action Levels:</b> The Radiation Safety Officer should be immediately notified when radiation or contamination levels to which personnel may be exposed exceed the following levels.			Instruments Used for Surveys			
			Meter No.	Make & Model	Serial No.	Detector Efficiency
Area	Radiation Survey	Contamination Surveys	1	Ludlum 14C	141805	%
Restricted	5.0 mR/hr	2,000 DPM/100 cm <sup>2</sup>	2	Ludlum 14C	141825	%
Unrestricted	2.0 mR/hr	2,000 DPM/100 cm <sup>2</sup>	3	Capintec Capral	070625	%

\*Note: LQ indicates that the package does not exceed specified limits for "Limited Quantities Shipments"

Receipt Survey							Wipes (cpm/dpm)					Return Survey						
Date Received	Container No.	Label I, II or III	Transport Index	Contact mR/hr	3' mR/hr	BKG (cpm)	Container Wipe (cpm)	Wipe Net dpm/100 cm <sup>2</sup>	Instrument		Initials	Date Returned	Contact mR/hr	3' mR/hr	Wipe Net dpm/100 cm <sup>2</sup>	BKG Cpm	Initials	
									S	W								
06/08/12	143	I	0.4706	0.03	0.02	409	0	0	2	3	CMC	6/8/12	0.02	0.02	0	429	CMC	
06/13/12	135	I	0.9217	0.06	0.02	438	0	0	2	3	CMC	6/13/12	0.02	0.02	0	438	CMC	
06/14/12	143	I	5.0114	0.04	0.02	439	45.08	45.08	2	3	CMC	06/14/12	0.02	0.02	0	439	CMC	
6/15/12	135	I	3.5991	0.05	0.02	496	0	0	1	3	CMC	06/15/12	0.02	0.02	0	496	CMC	
6/20/12	145	I	2.8356	0.03	0.02	412	50.86	50.86	1	3	CMC	06/20/12	0.02	0.02	18.49	412	CMC	
6/21/12	135	I	2.6913	0.03	0.02	462	0	0	1	3	CMC	6/21/12	0.02	0.02	0	462	CMC	
6/22/12	139	I	2.3356	0.05	0.05	454	36.99	36.99	1	3	CMC	6/22/12	0.02	0.02	73.12	454	CMC	
6/22/12	12	II	1.149	0.02	0.02	454	0	0	1	3	CMC	6/22/12	0.02	0.02	8.09	454	CMC	
7/3/12	139	I	6.8076	0.05	0.02	448	0	0	1	3	CMC	7/3/12	0.02	0.02	0	448	CMC	
7/5/12	143	I	1.0578	0.03	0.02	444	0	0	1	3	CMC	7/5/12	0.02	0.02	2.31	444	CMC	
7/5/12	110	II	2.3558	0.04	0.04	444	0	0	1	3	CMC	7/5/12	0.02	0.02	0	444	CMC	
7/18/12	1	I	Return by Cs-137 via [unclear]							1	1	W/L	7/18/12	0.04	0.02	0	445	W/L
7/19/12	2	I	Return by Cs-137 via [unclear]							3	3	W/L	7/19/12	0.02	0.02	0	445	W/L

A04

DPM 02 01/12

**Report Date:** April 22, 2012  
**Facility:** Columbus Diagnostic Imaging  
 Columbus, IN  
**State License Number:** Not Supplied  
**USNRC License Number:** 13-24706-01

**Source Identification:**

**Radionuclide:** Cobalt-57  
**Calibrated Activity Date:** 09/07/08  
**Calibrated Activity:** 10 mCi  
**Manufacturer:** Not Supplied  
**Serial Number:** BM01-10  
**Model Number:** BM011008220102  
**Source Description:** Flood Source

**Assay Results:**  
**Counting Efficiency:** 0.762 cpm/dpm, 1691543 cpm/uCi  
**MDA:** 102 dpm, 78 cpm, 0.00005 uCi  
**Background @ time of assay:** 351  
 (cpm)

	Gross cpm	Net cpm	DPM	Activity (uCi)
Dry Wipe	347	0	0	0.00000

**Instrument used for Analysis:** Ludlum Well Counter  
 M/N: 2200  
 S/N: 198663

**Analysis Results:** Source is not leaking at this time.  
 Removable contamination is <0.005 uCi

**Next Leak Test Due:** October-12

**Leak Test Performed By:** William K. Breeden, III, MS, DABR *WKB 4/6/12*  
 April 6, 2012

**Analysis Performed By:** Edward E. Wroblewski, MA, DABSNM *E. Wroblewski 4/22/12*  
 April 22, 2012

*[Signature]*  
 Radiation Safety Officer (signature)

**Report Date:** April 22, 2012  
**Facility:** Columbus Diagnostic Imaging  
 Columbus, IN  
**State License Number:** Not Supplied  
**USNRC License Number:** 13-26797-01

**Source Identification:**

**Radionuclide:** Cs-137  
**Calibrated Activity Date:** 08/01/97  
**Calibrated Activity:** 219.8 uCi  
**Manufacturer:** IPL  
**Serial Number:** 559-1627  
**Model Number:** RV-137-200V  
**Source Description:** Dose Calibrator Vial Source

**Assay Results:**

**Counting Efficiency:** 0.2639 cpm/dpm, 585946 cpm/uCi  
**MDA:** 295 dpm, 78 cpm, 0.00013 uCi  
**Background @ time of assay:** 351  
 (cpm)

	Gross cpm	Net cpm	DPM	Activity (uCi)
Dry Wipe	347	0	0	0.000000


**Instrument used for Analysis:** Ludlum Well Counter  
 M/N: 2200  
 S/N: PR 198663

**Analysis Results:** Source is not leaking at this time.  
 Removable contamination is <0.005 uCi

**Next Leak Test Due:** October-12

**Leak Test Performed By:** William K. Breeden, III, MS, DABR *WKB 4/6/12*  
 April 6, 2012 *E. Wroblewski 4/22/12*

**Analysis Performed By:** Edward E. Wroblewski, MA, DABSNM  
 April 22, 2012



Radiation Safety Officer (signature)