

HTTOL: Magdalena Gryglak  
5 pages

July 5, 2017

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

Ms. Gryglak:

Please allow this to serve as a response to your request for additional information in support of the termination of the Byproduct Materials License of Medical Consultants, P.C., Number 13-32412-01.

At the time operations ceased at Medical Consultants, P.C., they were in possession of three sealed sources: a cobalt-57 flood source (S/N: 1873-062), a cesium-137 vial source (S/N: 934-21-25), and a cesium-137 rod source (S/N: 930-55-5, exempt quantity). Enclosed are final leak tests for the cobalt-57 flood source and cesium-137 vial source. The cobalt-57 flood source was returned to the manufacturer Eckert and Ziegler Isotope Products Laboratories and a receipt acknowledgement is enclosed. The cesium-137 sources were transferred to Medical Physics Consultants, Inc and a receipt acknowledgment is enclosed.

The Ludlum Model 243 shielded well counter used for counting the close-out survey wipes was calibrated on June 15, 2016.

If there are any questions concerning this termination request, please contact our nuclear medicine physicist, Mr. Patrick J. Byrne, DABR, CHP, DABSNM, at 877-317-5811.

Sincerely,

*Holly Rausch* CNMT RSO

Holly Rausch, CNMT  
Radiation Safety Officer

RECEIVED JUL 05 2017



**Sealed Source Leak Test**

Licensee: Medical Consultants

Date: 11/09/16

Performed by: Patrick Byrne

*Patrick Byrne*  
S/N.

Nuclide	Type	Calibration Activity	Calibration Date	Location	M/N	S/N.
Cs-137	Vial	206.9 uCi	11/01/02	Hot Lab	RV-137-200U	934-21-25
Current Activity: 149.62uCi						
Co-57	Flood	10 mCi	04/01/16	Hot Lab	PF16R05710M	1873-062
Current Activity: 5.687mCi						

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: Ludlum 2200 Scaler

Nuclide	MDA	Background
Cs-137	$2.1 \times 10^{-4}$ uCi	45 cpm
Ba-133	$6.0 \times 10^{-5}$ uCi	264 cpm
Co-57	$4.0 \times 10^{-9}$ uCi	307 cpm

**RADIATION SAFETY OFFICER:** \_\_\_\_\_



**Sealed Source Leak Test**

Licensee: Medical Consultants

Date: 03/08/17

Performed by: Bryce Caudle

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Co-57	Flood	10mCi	04/01/16	Hot Lab	PF16R05710M	1873-062
Current Activity:		4.18mCi				

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:** \_\_\_\_\_

January 29, 2017

This acknowledges that two sources were transferred from Medical Consultants, P.C. (NRC Byproduct Materials License 13-32412-01) to Medical Physics Consultants, Inc (NRC Byproduct Materials License 21-20153-01). The sources were an exempt quantity Cs-137 rod (1.07 microcuries on 11/1/02; serial number 930-55-5) and a Cs-137 vial (207 microcuries on 11/1/02; serial number 934-21-25).

Patrick J. Byrne, DABR, CHP, DABSNM  
Medical Physics Consultants, Inc.



Receiving  
1800 Facility  
1800 N. Keystone St.  
Burbank, CA 91504  
US

Telephone.....: (661) 309-1010  
Fax.....: (661) 257-8303  
Giro.....:  
Tax exempt number.....: SRAC11-638175  
Recipient.....:

Shipped From:  
IUH Ball Cardiology  
Holly Rausch, CNMT, RSO  
ph: 765-228-6373  
email: hrausch@iuhealth.org  
2525 W. University Ave Ste 300  
Muncie, IN 47303  
United States

### Return acknowledgement

Return Number.....: 300867  
RMA number.....: RMA\_028132  
Date.....: 5/17/2017  
Page.....: 1 of 1  
Customer account.....: INDSTA02  
Customer reference.....:  
Contact.....:  
Customer requisition.....:

Dear Valued Customer,  
Eckert & Ziegler Isotope Products Laboratories has received your radioactive source(s) and takes responsibility for tracking and storage of the source(s) listed below. If you have any further questions about the source(s), please contact EZIP and reference the return number listed above. Thank you for your business.

Item number	Batch number	Serial number	Quantity returned	Received on	Description
PF16R-057-10M		1873-062	1.000000	5/12/2017	Perflexion Flood

Nuclide Info: Co-57      10.000000 mCi      Ref. Date: 4/1/2016