



November 12, 2013

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

RE: Amendment to NRC License # 21-32432-01
National Diagnostics Services, LLC

Dear Ms Casey:

Please find the enclosed Sealed Source leak test that you have requested.

Thank you for your cooperation. If you have any questions or require additional information, please contact me at 734-662-3197.

Respectfully Yours,

A handwritten signature in black ink, appearing to read "J. Botti", written over a light blue horizontal line.

James M. Botti, MS
Board Certified, ABR, ABMP
Radiological Physicist

□



Sealed Source Leak Test

Licensee: National Diagnostic Services, LLC

Date: 09/03/13

Performed by: James Botti

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Vial #1	200.1 uCi	06/01/04	Novi	RV-137-200U	1047-67-22
		Current Activity: 161.55 uCi				
Cs-137	Vial #2	220.9 uCi	09/01/07	Novi	RV-137-200U	1218-91-17
		Current Activity: 192.26 uCi				
Cs-137	Vial #3	250 uCi	04/01/81	Novi	CDC.VI	3121MA
		Current Activity: 118.15 uCi				
Cs-137	Vial #4	202 uCi	09/01/88	Novi	NES-356	S35600915
		Current Activity: 113.33 uCi				
Cs-137	Vial #5	192 uCi	03/23/84	Novi	NES-356	S3560384A33
		Current Activity: 97.2 uCi				
Cs-137	Vial #6	173 uCi	01/27/86	Novi	Syncor	212003
		Current Activity: 91.404 uCi				
Ba-133	Vial	276 uCi	10/13/87	Novi	NES-358	S358002-36
		Current Activity: 50.129 uCi				
Co-57	Flood	10 mCi	05/01/10	Novi	MED-3722	1434-091
		Current Activity: 0.44 mCi				
Co-57	Flood	10 mCi	03/01/06	Novi	PF18C-057-10	1154-092
		Current Activity: 0.009 mCi				
Co-57	Flood	10 mCi	11/01/07	Novi	PF18C-057-10	1255-137
		Current Activity: 0.043 mCi				
Co-57	Flood	10 mCi	01/01/07	Novi	PF18C-057-10	1227-073
		Current Activity: 0.02 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	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER: _____

Casey, Colleen

From: Jim Botti <jbotti@mpcphysics.com>
Sent: Wednesday, November 13, 2013 7:33 AM
To: Casey, Colleen
Subject: RE: National leak test
Attachments: 201311130832.pdf

Ms. Casey

Please find the information that you requested.

If you have any questions regarding this correspondence or if I may be of assistance, please contact me.

James M. Botti, MS
Board Certified, ABR, ABMP
Radiological Physicist



Cell: 810-599-8817
Office: 734-662-3197
Fax: 734-662-9224

From: Casey, Colleen [mailto:Colleen.Casey@nrc.gov]
Sent: Tuesday, November 12, 2013 4:54 PM
To: Jim Botti
Subject: RE: National leak test

Dear Jim,

Your response has to be signed in order to be accepted. Email alone will not suffice. Please sign and date the leak test result sheet, at least, and retry. Thanks very much.

Colleen

Colleen Carol Casey
Materials Licensing Reviewer
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Suite 210
Lisle, IL 60532-4352
(630) 829-9841 Direct
(630) 515-1078 Fax

Gentle Reminders: Unless previously arranged with or requested by me directly,

please do not submit any licensing requests, responses or correspondence via e-mail.
Please only submit one complete, signed copy of your correspondence to us.
Please prepare your licensing requests in accordance with NUREG 1556 Series Guidance, as appropriate.

Thank you very much!

Please also note that my full-time work schedule includes every other Friday off.

**Ensuring the health and safety of
our people, our nation and
our environment**

<http://www.nrc.gov/>



From: Jim Botti [<mailto:jbotti@mpcphysics.com>]
Sent: Tuesday, November 12, 2013 3:24 PM
To: Casey, Colleen
Subject: Fwd: National leak test

Ms Casey

Please find the attached sealed source leak test for National Diagnostics. Thank You

James M. Botti, MS
Diagnostic Imaging Physicist
Medical Physics Consultants

Begin forwarded message:

From: Tereasa Bacus <tbacus@mpcphysics.com>
Date: November 12, 2013 at 3:37:12 PM EST
To: jbotti@mpcphysics.com
Subject: National leak test