



# Cardionuclear Diagnostics Nuclear Medicine, Inc.

H. O. Quintana-Irazola, M.D.

Ms. Penny Lanzisera  
U.S. Nuclear Regulatory Commission  
Region I, 2100 Renaissance Blvd, Suite 100  
King of Prussia,  
Pennsylvania 19406-2713

*Br. 1*

Re: License No. 52-30841-01

*030-36419*

*52-25033-01*

*030-30966*

REC-06 10118-17 410705

Dear Ms. Lanzisera:

The purpose of this communication is to inform NRC that Cardionuclear Diagnostics Laboratory, named as Nuclear Medicine Inc. on the above license has ceased operations as of December 2016. As required, I have enclosed a certification by Maria M. Palacios, M.S., our Radiation Safety Officer, which verifies that no radioactive source nor radiation contamination has been left in the space we have been occupying.

On December 27, our RSO packed all the sealed sources (inventory list included) and I personally transported them to the other laboratory where they will be stored permanently and where I am an authorized user (Byproduct Materials License No. 52-25033-01).

All this means, of course that License No. 52-30841-01 needs to be terminated.

Please advise if there is any additional information required.

Yours truly,

Humberto O. Quintana Irazola, MD,

*592820/592822*

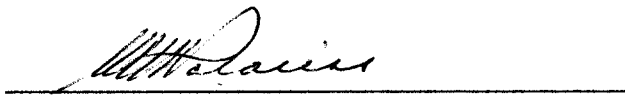
NMSS/RGNI MATERIALS-002



**Cardionuclear Diagnostics  
Nuclear Medicine, Inc.**

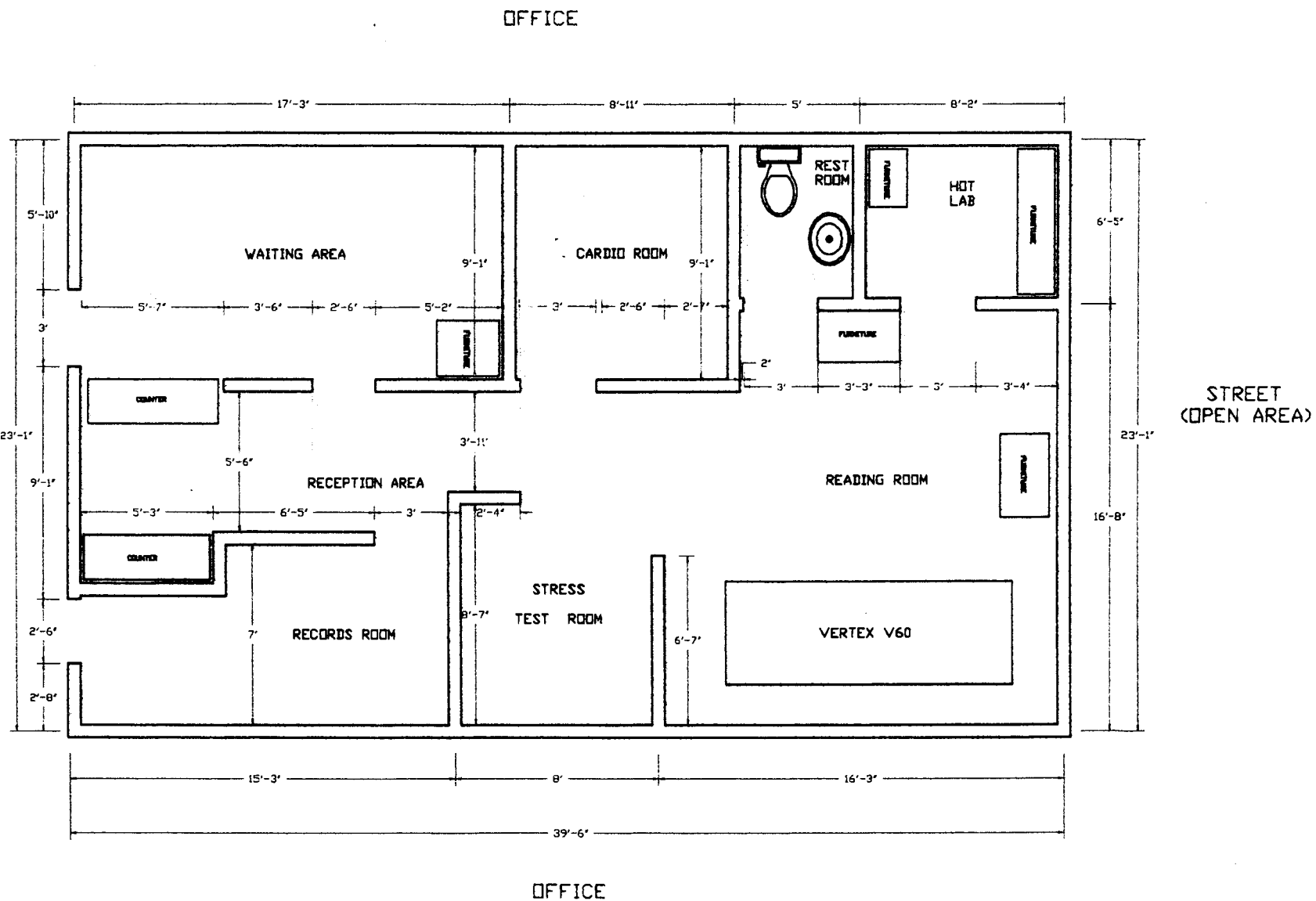
H. O. Quintana-Irazola, M.D.

I hereby certify that on December 27, 2016, once the radioactive sealed sources were removed and transported by Dr. Humberto Quintana to Cardionuc Laboratory (Byproduct Materials License No. 52-25033-01), I carried out a radiation level survey throughout the entire office area (enclosed please find the office layout plan). This survey was carried out with a Ludlum14C GM Survey Meter and yielded nothing but background level throughout. In addition I carried out a wipe test of all surfaces inside the "hot" room, as well as the locations where radioactive materials were injected. Result: no evidence of removable radioactive contamination.

A handwritten signature in black ink, appearing to read "M. Palacios", is written over a horizontal line.

María M. Palacios, M.S.  
Medical Physicist

**MEMONITE OFFICE BUILDING  
CAYEY, PUERTO RICO  
OFFICE #209**



Date: December 27, 2016

**SEALED SOURCE INVENTORY**

I- Standard Sources Used for Calibration Constancy Check on Dose calibrator.

← CAYEY → ← MOCA → ← MOCA →

Isotope:	$Co^{57}$ ✓	$Cs^{137}$ ✓	$Ba^{133}$ ✓	$Co^{57}$ ✓	$Cs^{137}$ ✓	$Ba^{133}$ ✓	$Gd^{153}$ ✓
Mfg:	E & Z Isotope Products	Isotope Products Labs	Isotope Products Labs	E & Z Isotope Products	E & Z	E & Z	E & Z
Serial #:	1756-16-2	1014-92-7	1014-98-6	1366-44-1	1393-31-13	1393-18-17	1414-23-1 thru 6 for calib.
Cal. Date:	Oct 1/14	Feb 1/04	Mar 1/04	Jan 1/10	Feb 1/10	Dec 1/09	Jan 1/10
Nom. Act.:	10.97 mCi	206.3 µCi	263 µCi	10.35 mCi	190.9 µCi	256.4 µCi	(3.7 MBq x 6) 160 µCi x 6
Location:	Inside lead brick enclosure at "hot" room and <u>IN USE</u>						

II FLOOD SOURCE  
← CAYEY →

← MOCA → ← MOCA →

Isotope:	$Co^{57}$ ✓		$Co^{57}$ ✓	$Cs^{137}$ ✓			
Mfg:	E & Z Isotope Products		E & Z Isotope Products	E & Z Isotope Products			
Serial #:	1787-128		1474-119	1407-18-8			
Cal. Date:	Feb 1/2015		Feb 1/11	Jan 1/10			
Nom. Act.:	10 mCi		5 mCi	99.23 nCi			
Location:	At imaging camera room N° 2						

III- Other Sealed Sources

Inventory carried out by:

*[Signature]*

← CAYEY →

← CAYEY → ← MOCA →

Isotope:	$Cs^{137}$ ✓		$Cs^{137}$ ✓	$Cs^{137}$ ✓			
Mfg:	North Amer. Scientific		Spectrum Techniques	Spectrum Techniques			
Serial #:	32843		2374	392			
Cal. Date:	Feb/03		Nov/03	Aug/09			
Nom. Act.:	0.8 µCi Inside lead pig inside lead		1 µCi At side of GM	1 µCi At side of GM			



**ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE**

**Name and Address of Applicant and/or Licensee**

Cardiovascular Associates of PR  
ATTN: Humberto O. Quintano-Irazola, M.D.  
P. O. Box 6480  
Santa Rosa Unit  
Bayamon, PR 00960-9004

**Date**

January 23, 2017

**License Number(s)**

52-30841-01

**Mail Control Number(s)**

592820

**Licensing and/or Technical Reviewer or Branch**

Medical Branch (Branch 1) Rec'd. in RI

This is to acknowledge receipt of your:  Letter and/or  Application Dated: 01/18/2017

The initial processing, which included an administrative review, has been performed.

Amendment  Termination  New License  Renewal

There were no administrative omissions identified during our initial review.

This is to acknowledge receipt of your application for renewal of the material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Your application for a new NRC license did not include your taxpayer identification number. Please complete and submit NRC Form 531, Request for Taxpayer Identification Number, located at the following link: <http://www.nrc.gov/reading-rm/doc-collections/forms/nrc531.pdf>  
Follow the instructions on the form for submission.

The following administrative omissions have been identified:

[Empty box for administrative omissions]

Your application has been assigned the above listed MAIL CONTROL NUMBER. When calling to inquire about this action, please refer to this control number. Your application has been forwarded to a technical reviewer. Please note that the technical review, which is normally completed within 180 days for a renewal application (90 days for all other requests), may identify additional omissions or require additional information. If you have any questions concerning the processing of your application, our contact information is listed below:

**Region I**  
**U. S. Nuclear Regulatory Commission**  
**Division of Nuclear Materials Safety**  
**2100 Renaissance Boulevard, Suite 100**  
**King of Prussia, PA 19406-2713**  
**(610) 337-5260, (610) 337-5313,**  
**(610) 337-5398, or (610) 337-5239**



**ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE**

**Name and Address of Applicant and/or Licensee**

Cardiovascular Associates of PR  
ATTN: Rene Perez-Rios, M.D., Director  
P. O. Box 6480  
Nuclear Medicine Division: Santa Rosa Unit  
Bayamon, PR 00960-9004

**Date**

January 23, 2017

**License Number(s)**

52-25033-01

**Mail Control Number(s)**

592822

**Licensing and/or Technical Reviewer or Branch**

Medical Branch (Branch 1) Rec'd. in RI

This is to acknowledge receipt of your:  Letter and/or  Application Dated: 01/18/2017

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