



## HOJA DE CUBIERTA DE FAX

Para: Robin L. Elliott	De: Pedro Barez
	Dept./Unidad: Administración
Teléfono:	Fax: 787-844-2090
CC:	Teléfono: 787-844-2080 extensión 1656
<b>Fax: 1-610-337-5269</b>	Fecha 6 de septiembre de 2012 DIA / MES / Año

**Asunto:**

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**Mail control number 577239**

**SAINT LUKES MEMORIAL HOSPITAL INC.**

September 4, 2012

**Docket No. 03010302**  
**Mail Control Number: 577239**

**License No. 52-16061-01**

**Rubin L. Elliott,**  
**Health Physicist**  
**U.S Nuclear Regulatory Commission**  
**Region I, 2100 Renaissance Blvd, Suite 100**  
**King of Prussia, PA 19406-2713**

SUBJECT: Additional information Requested.

Dear Miss Elliott:

This letter is in reference to the additional information required by e-mail on August 17, 2012. The message received and the additional information is listed below.

- A. You indicated in your last communication that no license activity occurred at the St. Luke's Episcopal Hospital, Calle Guadalupe Final location since 2005. You also stated that all the sources were transferred to the St. Luke's Memorial Hospital Machuelo address. Please provide the dates for last use of material at the Calle Guadalupe Final location, when the sources were transferred to the St. Luke's Memorial Hospital Machuelo location, what isotopes were used in the Calle Guadalupe Final location, a copy of the last survey completed at this location and the day when the nuclear medicine areas began being used for other purposes.
- We want to correct in our last communication that no license activity occurred at the St. Luke's Episcopal Hospital, Calle Guadalupe Final location since February 2007 instead of 2005.
  - According to the records the date for last use of material for patient study at the Calle Guadalupe Final was on December 15, 2006 and all the sources were transferred to the Saint Lukes Memorial Hospital INC on February 14, 2007.
  - Only Technetium-99m, Gallium and Technetium-99m for nuclear cardiology were used in the Calle Guadalupe final location.
  - Actually all areas in the Calle Guadalupe Final location are closed including the nuclear medicine area. The hospital will decide in the future when the nuclear medicine area began being used for other purposes.

- See attachment A (Last Survey Completed at this location).
- B. Please Provide the calibration data for the CAPINTEC Model CAPTUS – 600 Spectrometer S/N: 600279 and the LUDLUM M- 14C S/N 258800 probe M -44-7 used to conduct your close out survey of the Calle Guadalupe Final location.
- We want to correct in our last communication the LUDLUM M- 14C Serial Number and Probe Model.
  - The S/N is 230232 and Probe Model is 44-9.
  - See attachment B ( Calibration Data)
- C. Please Provide a description of the radiation monitoring instrument(s) used to perform radiation level detection, measurement, and removable contamination surveys.
- The survey instrument used for the test was LUDLUM M-14C S/N: 230232, Probe: M: 44-9, it is sufficiently sensitive to levels lower than 0.01 mR/hr and level high than 2000 mR/hr. The radiation levels is in mR/hr. This Survey Meter use standard scale (0-2 mR/hr) with five counting ranges: x0.1, x1, x10, x100 and x 1000 with a Probe M 44-9 for alpha, beta and gamma survey.
  - The contamination level is presented in dpm/100cm<sup>2</sup>. The equipment used for the wipe test and removal contamination was a uptake System well counter CAPINTEC Model CAPTUS-600 Spectrometer S/N 600279 with a detector well type Nal (TI) 2" x 2" cristal sufficiently sensitive with to detect the presence of 200 dpm/100cm<sup>2</sup> of removable contamination.

Want to mention that during that last inspection the NRC inspector are knowledgeable about Calle Guadalupe Final location.

Please contact Mr. Carmelo Pérez at (787) 432-9320 if you need additional information regarding this matter.

Sincerely,



Pedro F. Barez Clavell, M.H.S.A  
Executive Administrator  
Saint Lukes Memorial Hospital INC.  
Phone: (787) 844-2080 Ext: 1656 or 1657  
E-mail: [pbarez@sanlucaspr.com](mailto:pbarez@sanlucaspr.com)

ATT: B

Certificate of Calibration

# A.M. Calibration Services

9620 Medical Center Drive  
 Rockville Md 20850  
 Phone: 301-610-6001

[amcalibration@aol.com](mailto:amcalibration@aol.com)

<b>Meter Owner:</b>	Pet Diagnostics	<b>Manufacturer:</b>	Ludlum
<b>Calibration Date:</b>	8/15/2011	<b>Model Number:</b>	14-C
<b>Calibration Due Date:</b>	8/15/2012	<b>Serial Number:</b>	230232

<b>Location</b>	<b>Calibration Geometry</b>
	

AM Calibration Radioactive Material License: MD-31-206-01

<b>Inspection Item</b>	
Batteries Changed	no
Internal Adjustment	yes

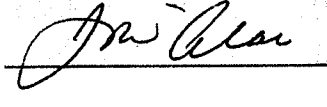
**Instrument Calibration Information**

Probe: 44-9 248584 mR cap

Instrument Scale	mR/hr		CF Factor	Scale CF
	Meter Exposure	True Exposure		
x 1000.0	1400	1576	1.126	1.053
x "	400	392	0.980	
x 100.0	110	128	1.164	1.052
x "	34	32	0.940	"
x 10.0	17	15.6	0.917	0.959
x "	4	4	1.000	"
x 1.0	1.6	1.6	1.000	1.000
x "	0.4	0.4	1.000	"
x 0.1	0.15	0.15	1.000	1.000
x "	0.075	0.075	1.000	"

Check Source Reading = 1.05mR/hr

This certifies that the instrument above was calibrated with a Cs-137 source, Shepherd Model 28-6 #10258-300mCi. Exposure rate for this source has been verified with instrumentation whose calibration is traceable to NIST standards. And in accordance with ANSI-N323 and as recommended by manufacturer.

Calibrated By: Andrew J McAleer 

ATT: B

HOSPITAL SAN LUCAS  
MEDICINA NUCLEAR

Jul 26, 2012 08:50

CAPTUS - 600 REV 1.00 SN: 600275

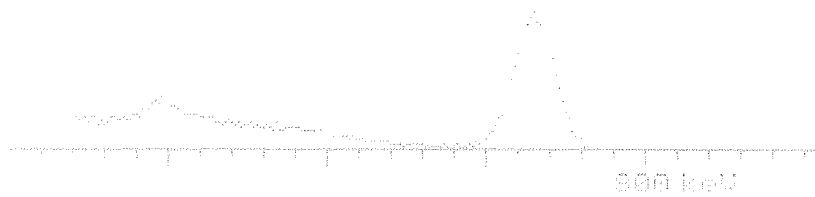
Test of WELL

Cs137 Counted For 7.0 sec  
Energy Deviation: 2.2 %

Cs137 Standard:  
Counted as: 125.3 kcpm  
Cs137 Conversion Factor: 7.10  
Measured Activity: 4.401  $\mu$ Ci  
FWHM: 2.3 %

HV Reference #: 055  
Fine Gain Adjustment #: 120

2000 Cts PS CH# 165.0 4.01keVch



*[Handwritten signature]*  
pass

*Jo*

100 CLE FS 212410

Total Count: 217.0

800 1000

100 CLE FS 21250

Total Count: 211.0

400 1000

100 CLE FS 21260

Total Count: 212.0

200 1000

100 CLE FS 21270

Total Count: 178.0

Counted for 60.0 sec in MULT

(BACKGROUND)

WOLFF-BRANNERT-KIMMEL-ATL

CHARLES 600 KLV 11.00 CNT 60275

FOR COPY DATE 04:50

NOV 1961 04:50  
MEDICINE BLDG

ATTB



ATT B

HOSPITAL SAN LUCAS  
MEDICINA NUCLEAR

Jul 26, 2012 08:59

CAPTUS - 600 REV 1.00 SN: 600070

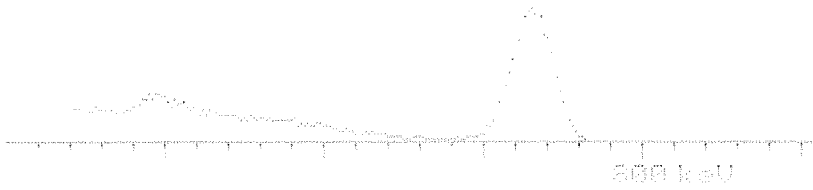
CALIBRATION OF WELL

Cs137 Counted For 7.0 sec

FWHM: 8.7 %

HV Reference #: 055

2000 Cts FS CH: 165.1 4.010keV/ch



*Handwritten signature*



ATTB

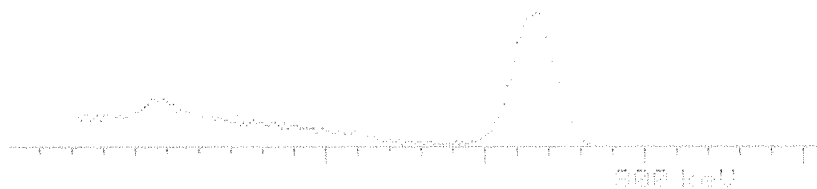
Test of WELL

Cs137 Counted for 7.8 sec  
Energy Deviation: -0.2 %

Cs137 standard:  
Counted as: 127.4 kcpm  
Cs137 Conversion Factor: 7.10  
Measured Activity: 1.407  $\mu$ Ci  
FWHM: 0.6 %

HV Reference #: 055  
Fine Gain Adjustment #: 120

2000 Cts FS CH: 165.1 4.011keV/ch



*Handwritten signature*

ATT B

Jul 17, 2012 04:27

HOSPITAL SAN LUCAS  
MEDICINA NUCLEAR

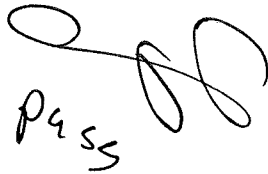
CARTUG - 600 REV 1.00 SN: 600270

Chi-Square Test of WELL

Repetition	counts
1	46241
2	46572
3	46489
4	46783
5	46557
6	46553
7	46640
8	46308
9	46321
10	46934

Repetitions: 10

Chi-square: 0.03

  
PASS

ATTB

HOSPITAL SAN LUCAS  
MEDICINA NUCLEAR

JUL 25, 2012 09:12

CAPTUS - 600 REV 1.00 SN: 600270

Minimum Detectable Activity Test  
OF TC99m in WELL

Counted For: 60 sec

Desired Precision: 3 standard deviations

Minimum Detectable Counting Rate: 14.39 cpm

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke.

## **ATTACHMENT A**

February 16, 2007

Gillermo Martin, M.H.S.A  
Executive, Saint Luke's Memorial Hospital

Dear Mr. Martin:

Thank you for the opportunity to provide a summary of the Survey as radiation physicist in your facility San Luke's Episcopal Hospital Calle Guadalupe Final. Enclosed you will find copy of all survey forms completed during the survey.

The survey consisted of the following action;

-A review of radioisotope inventory records to assure proper disposal or transfer of all radioactive material.

- In this action no radioactive material was found, only sources that were transferred.

-A survey of radiation of radiation levels of the laboratory area using an appropriate meter to check for fix contamination.

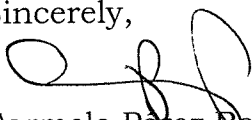
- Test areas listed are included in all survey form and on the map.
- The results of both, the meter survey and the swipe survey were recorded on a laboratory survey form. These results are less than acceptable contamination levels for release of facilities from radiological controls.

All record and document are stored until license permit.

Please let me know when the hospital decides to use this facility for other purposes.

If you need any additional information, please contact me at (787) 842-2478 Ext. 7074 or (787) 432 - 9320 (cellular phone).

Sincerely,



Carmelo Pérez Rosario  
Radiation Physicist

- See attachment A (Last Survey Completed at this location).
- B. Please Provide the calibration data for the CAPINTEC Model CAPTUS – 600 Spectrometer S/N: 600279 and the LUDLUM M- 14C S/N 258800 probe M -44-7 used to conduct your close out survey of the Calle Guadalupe Final location.
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  - The contamination level is presented in dpm/100cm<sup>2</sup>. The equipment used for the wipe test and removal contamination was a uptake System well counter CAPINTEC Model CAPTUS-600 Spectrometer S/N 600279 with a detector well type NaI (TI) 2" x 2" cristal sufficiently sensitive with to detect the presence of 200 dpm/100cm<sup>2</sup> of removable contamination.

Want to mention that during that last inspection the NRC inspector are knowledgeable about Calle Guadalupe Final location.

Please contact Mr. Carmelo Pérez at (787) 432-9320 if you need additional information regarding this matter.

Sincerely,



Pedro F. Barez Clavell, M.H.S.A  
 Executive Administrator  
 Saint Lukes Memorial Hospital INC.  
 Phone: (787) 844-2080 Ext: 1656 or 1657  
 E-mail: [pbarez@sanlucaspr.com](mailto:pbarez@sanlucaspr.com)



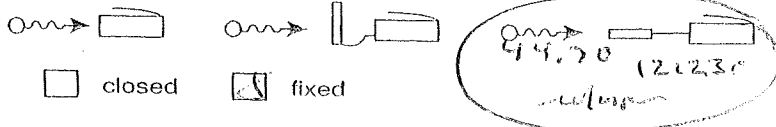
# CALIBRATION SERVICES

15875 Gaither Dr., Gaithersburg, MD 20877 (301) 926-9106

## CALIBRATION CERTIFICATE

Owner: HOSPITAL SAN LUCA J. Calibration Date: 5/6/10 Next Due: 5/6/11  
 Manufacturer: LOAN Model Number: 14.2 Serial Number: 115792  
 Batteries Changed: NO Internal Adjustment: Yes  Yes  No

This instrumentation was calibrated with a Cs-137 source: Sheppard 28.6 #10258/300 MC

Calibration geometry:  94.50 121230  
 Window:  open  closed  fixed

Meter Response (mR/hr)	Scale	True Exposure (mR/hr)	CF	Meter Response (mR/hr)	Scale	True Exposure (mR/hr)	CF
144.0	X1000	144.0	1.00	1.30	X1	1.30	1.00
550.0	"	500.0	0.909	0.450	"	0.440	0.977
Scale CF: 0.955				Scale CF: 0.99			
130.0	X100	125.0	0.961	0.160	X1	0.160	1.00
38.0	"	40.0	1.052	0.0050	"	0.0050	1.00
Scale CF: 1.01				Scale CF: 1.00			
12.80	X10	13.80	1.078				
9.0	"	4.0	1.00				
Scale CF: 1.04							

Exposure Rate from Check Source 1.25 mR/hr

THIS CERTIFIES that the instrument described above was calibrated with a Cs-137 source. Exposure rates for this source have been verified with instrumentation whose calibration is traceable to the National Institute of Standards and Technology.

MD License #Md-31-206-01

Jim Allen  
 Health Physics Technician

AM Calibration Services verifies all the above before shipping, not responsible for damages incurred in shipping.

**St. Luke' s Episcopal Hospital**  
**Calle Guadalupe Final**

**SURVEY TEST AREA**  
**ATTACHMENT A**


DATE OF TEST: February 14, 2007 to February 16, 2007

Survey Instrument: Survey Meter Lublum 14C, Probe M: 44.7

S/N:115992

Action Levels: 0.5 mR/Hr.

Sample Point	Result (Mr/hr)
1. Radioisotope Storage Area	0.01
2. Bench Stop Work Surface and Sink Area	0.01
3 Hood	0.01
4. Floor	0.01
5. Floor	0.01
6. Injection Side	0.01
7. Dose Calibrator	0.01
8. Door Handle	0.01
9.Floor	0.01
10. Comp. Desk	0.01
11. Floor	0.01
12.Floor	0.01
13. Gamma Camara Area	0.01
14. Floor	0.01
15. Floor	0.01
16. Uptake System	0.01
17. Desk	0.01
18. Telephone	0.01
19. Door Handle	0.01
20. Floor	0.01
21. Floor	0.01
22. Stress Equip.	0.01
23. Floor	0.01
24. Floor	0.01
25. Floor	0.01
26.Floor	0.01
27.Floor	0.01
28.Floor	0.01
29. Floor	0.01
30.. Floor	0.01
31. Wall	0.01
32. Wall	0.01
33. Wall	0.01
34. Wall	0.01
35. Wall	0.01
36. Wall	0.01
37. Wall	0.01

  
Carmelo Pérez  
Medical Physicist, RSO