

Dr. 1

2/15/2019

U.S. Nuclear Regulatory Commission Region I
2100 Renaissance Boulevard, Suite 100
King of Prussia, PA 19406-2713

Licensee: Camden-Clark Memorial Hospital Corporation
License No.: 47-09772-02 / 103003390
Mail Control Number: ~~610784~~ *long*

REC RG 1 03 05 19 PM 01:12

To Whom It May Concern,

This letter is a follow-up to our last amendment (49) request. As stated, when the new hot lab and nuclear area were operational and all sources secured in the new area, decommissioning surveys to the 600 18th Street, Suite 512 address would follow. The decommissioning report of Parkersburg Cardiology from 600 18th Street Parkersburg, WV is enclosed. No unsealed sources with a half-life of greater than 120 days were used at this site. Being that this was a cardiac practice the longest lived isotope that would have been used is Tl201 (73.1 Hrs.). The leak test of all sealed sources prior to removal is also enclosed. There were no leaking sources at this site.

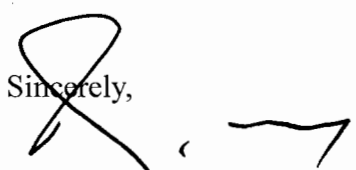
After the move of Parkersburg Cardiology to 1013 Garfield Avenue Parkersburg 26101, the Capintec CR-7 dose calibrator was tested for Geometry, Accuracy, Constancy, and Linearity. The Caprus Well counter was Chi-Square tested. All reports along with calibration certificate of survey meter used in decommissioning are attached.

Surveys were done outside hot lab, camera rooms, hallways, and waiting room in the new area during operating hours. All readings were found to be at background.

We assume that the 600 18th Avenue, Suite 512 address can be removed from our license.

Please do not hesitate to contact our RSO, Daniel Berkley if you have any questions regarding this information at (724) 454 2371.

Sincerely,



Doug Farary

Vice President, Operations
Camden Clark Medical Center
800 Garfield Avenue
Parkersburg, WV 26102
Phone: 304-424-2998
Fax: 304-424-2906

611564
UNRECORDED NATIONALS-002

Decommissioning Camden Clark Parkersburg Cardiology

600 18th Street, Suite 512, Parkersburg, WV 26102

Radioactive Material License number 47-09772-02

All Sources Transported to New Hot Lab Camden Clark Parkersburg Cardiology

MOB-D, Cardiology Building, 1013 Garfield Ave. Parkersburg, WV 26102

Sealed Source Inventory Attached

DATE: 2/11/2019

Meter Ludlum Model 14C S/N 110445

Caprus Well wipes

Background 0.03 mr/hr with Ludlum

Caprus Well bkg 289 dpm

Survey performed by Daniel A. Berkley, RSO

Daniel A. Berkley
2/11/19

Scan Room	Wipe Test	Net Cts	Survey
Cardio1	(dpm)	(dpm)	(mr/hr)
Floor 1-5	292	3	0.03
Floor 6-10	292	3	0.03
Floor 11-15	292	3	0.03
Floor 16-20	292	3	0.03
Wall 1-5	292	3	0.03
Wall 6-10	292	3	0.03
Wall 11-15	292	3	0.03
Wall 16-20	292	3	0.03
Counters	292	3	0.03
Cabinets	292	3	0.03

Scan Room	Wipe Test	Net Cts	Survey
Cardio2	(dpm)	(dpm)	(mr/hr)
Floor 1-5	295	6	0.03
Floor 6-10	295	6	0.03
Floor 11-15	295	6	0.03
Floor 16-20	295	6	0.03
Wall 1-5	295	6	0.03
Wall 6-10	295	6	0.03
Wall 11-15	295	6	0.03
Wall 16-20	295	6	0.03
Counters	295	6	0.03
Cabinets	295	6	0.03

Scan Room	Wipe Test	Net Cts	Survey
Cardio3	(dpm)	(dpm)	(mr/hr)
Floor 1-5	286	0	0.03
Floor 6-10	286	0	0.03
Floor 11-15	286	0	0.03
Floor 16-20	286	0	0.03
Wall 1-5	286	0	0.03
Wall 6-10	286	0	0.03
Wall 11-15	286	0	0.03

Wall 16-20	286	0	0.03
Counters	286	0	0.03
Cabinets	286	0	0.03

Treadmill Room 1	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	298	9	0.03
Floor 6-10	298	9	0.03
Floor 11-15	298	9	0.03
Floor 16-20	298	9	0.03
Wall 1-5	298	9	0.03
Wall 6-10	298	9	0.03
Wall 11-15	298	9	0.03
Wall 16-20	298	9	0.03
Counters	298	9	0.03
Cabinets	298	9	0.03

Treadmill Room 2	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	288	0	0.03
Floor 6-10	250	0	0.03
Floor 11-15	288	0	0.03
Floor 16-20	292	3	0.03
Wall 1-5	292	3	0.03
Wall 6-10	286	0	0.03
Wall 11-15	289	0	0.03
Wall 16-20	295	6	0.03
Counters	281	0	0.03
Cabinets	306	17	0.03

Treadmill Room 3	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	311	22	0.03
Floor 6-10	311	22	0.03
Floor 11-15	311	22	0.03
Floor 16-20	311	22	0.03
Wall 1-5	311	22	0.03
Wall 6-10	311	22	0.03
Wall 11-15	311	22	0.03
Wall 16-20	311	22	0.03
Counters	311	22	0.03
Cabinets	311	22	0.03

Hot Lab Location	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	318	29	0.03
Floor 6-10	318	29	0.03

Floor 11-15	318	29	0.03
Wall 1-5	318	29	0.03
Wall 6-10	318	29	0.03
Wall 11-15	318	29	0.03
Counters	318	29	0.03
Cabinets	318	29	0.03

Injection Room 1	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	275	0	0.03
Floor 6-10	275	0	0.03
Wall 1-4	275	0	0.03
Wall 5-8	275	0	0.03
Wall 9-12	275	0	0.03
Wall 13-16	275	0	0.03
Counters	275	0	0.03
Cabinets	275	0	0.03

Injection Room 2	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	311	22	0.03
Floor 6-10	311	22	0.03
Wall 1-4	311	22	0.03
Wall 5-8	311	22	0.03
Wall 9-12	311	22	0.03
Wall 13-16	311	22	0.03
Counters	311	22	0.03
Cabinets	311	22	0.03

Injection Room 3	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	307	18	0.03
Floor 6-10	307	18	0.03
Wall 1-4	307	18	0.03
Wall 5-8	307	18	0.03
Wall 9-12	307	18	0.03
Wall 13-16	307	18	0.03
Counters	307	18	0.03
Cabinets	307	18	0.03

Patient Bathroom 1	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	301	12	0.03
Floor 6-10	301	12	0.03
Wall 1-4	301	12	0.03
Wall 5-8	301	12	0.03
Wall 9-12	301	12	0.03

Wall 13-16	301	12	0.03
Sink	301	12	0.03
Toilet	301	12	0.03

Patient Bathroom 2	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	308	19	0.03
Floor 6-10	308	19	0.03
Wall 1-4	308	19	0.03
Wall 5-8	308	19	0.03
Wall 9-12	308	19	0.03
Wall 13-16	308	19	0.03
Sink	308	19	0.03
Toilet	308	19	0.03

Patient Bathroom 3	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	311	22	0.03
Floor 6-10	311	22	0.03
Wall 1-4	311	22	0.03
Wall 5-8	311	22	0.03
Wall 9-12	311	22	0.03
Wall 13-16	311	22	0.03
Sink	311	22	0.03
Toilet	311	22	0.03

Patient Waiting 1	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	297	8	0.03
Floor 6-10	297	8	0.03
Floor 11-15	297	8	0.03
Wall 1-5	297	8	0.03
Wall 6-10	297	8	0.03
Wall 11-15	297	8	0.03

Patient Waiting 2	Wipe Test (dpm)	Net Cts (dpm)	Survey (mr/hr)
Floor 1-5	293	4	0.03
Floor 6-10	293	4	0.03
Floor 11-15	293	4	0.03
Wall 1-5	293	4	0.03
Wall 6-10	293	4	0.03
Wall 11-15	293	4	0.03



Parkersburg Cardiology

Nuclear Medicine Department

600 18th Street Suite 512, Parkersburg, WV 26101

LIC. # 47-25319-07

Test Date & Time : 12-03-2018 13:07
Instrument Model : CAPRAC
Serial # : 000251
Background : 461.00 CPM
Instrum. Uniq# : 3
Comment :
Technologist : Andrea Davis
Manufacturer : Capintec
Instrum Eff.. : 65.00 %
Trigger Level : 0.005 uCi

#	Chemical Name	Model #	Serial #	Cal. Date	Predicted Act.	Wipe Result	Chemical Eff Factor
1	Cs - 137		S356027-023	03-30-1994	124.7370 uCi	463 CPM	0.00 1.00
2	Cs - 137		BM0813711241109	08-31-2011	102.9080 nCi	451 CPM	0.00 1.00
3	Co - 57		BM06057E14013106	01-16-2014	0.1206 mCi	447 CPM	0.00 1.00

**This Report indicates that all above sealed sources have PASSED a Leak Test.
Removed Activity for sources was below the 0.005 uCi NRC/STATE Trigger Limit**

Technologist Signature : _____



Geometry Report

Test # 1

Test Date : 2/4/2019

Test Date : 02-04-2019 08:30	Tech. : Andrea Davis
Dose Cal. : CRC - 7	Manuf: : Capintec
Location : HOT LAB	DC #: : 1
Capacity : 5.00 ml	Standard Vol: : 3.00 ml
	Serial# : 71313
	Source : Tc99m
	Trigger : 5.00 %

#	Volume (ml)	Reading (mCi)	% Variation	Correction Factor
1	1.00	14.10	0.28	N/A
2	3.00	14.06	0.00	N/A
3	5.00	14.03	-0.21	N/A

Comments:

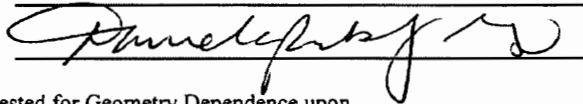
FORMULAS:

Correction Factor = Standard Reading / Reading
 Variation = (1 - (Standard Reading / Reading)) * 100

The Geometry test has **PASSED**

All the above readings have fallen within the 5.00% trigger level for % variation from the Standard Volume's Radioactivity

Technologist Signature :



RSO Signature :

A Dose Calibrator is required to be tested for Geometry Dependence upon installation, repair, or adjustment, and/or as otherwise specified by your radioactive materials license.



Parkersburg Cardiology
 Nuclear Medicine Department
 600 18th Street Suite 512, Parkersburg, WV 26101
 LIC. # 47-25319-07

February 04, 2019

Dose Calibrator Accuracy Report

Dose Calibrator Accuracy Test # 1

Test Dt & Tm: 02-04-2019 08:15 **Technologist:** Andrea Davis
Dose Cal. Model: CRC - 7 **Manufacturer:** Capintec
Serial #: 71313 **Location:** HOT LAB
Dose Cal. Uniq #: 1
Comments: Initial Testing in MOB 4 1013 Garfield Ave

Ref. Src	Rdg	Manuf.	Ref. Ser. #	Cal.Date	Predicted Act.	DC Reading	Deviations	Avg Rdg	Avg Dev
Cs - 137	1	Dupont/ NEN	S356027-02	03-30-1994	124.245 uCi	119.800 uCi	-3.578 %	119.933uCi	-3.471 %
	2					119.900 uCi	-3.497 %		
	3					120.100 uCi	-3.336 %		
Co - 57	1	Pharmalogic	BM06057E	01-16-2014	0.103 mCi	0.100 mCi	-2.919 %	0.100mCi	-2.919 %
	2					0.100 mCi	-2.919 %		
	3					0.100 mCi	-2.919 %		

The above Report indicates all of the Dose Cal. Accuracy Tests have PASSED.
 All of the test results fall within the +/-5.00% Regulatory Trigger Limit.

Tech Signature :

Pharmacology
 2/4/19



Parkersburg Cardiology

Nuclear Medicine Department

600 18th Street Suite 512, Parkersburg, WV 26101

LIC. # 47-25319-07

February 04, 2019

Dose Cal Constancy Summary Report

Date Range : 02-01-2019 To 02-04-2019

Dose Calibrator: CRC - 7

Manufacture: Capintec

Serial #: 71313

Location: HOT LAB

				Co - 57			Cs - 137	
				S/N: BM06057E14013106			S/N: S356027-023	
Background	Test	Zero	Co - 57	Tc99m	Tl-201	Cs - 137		
uCi	Volts	uCi	mCi	mCi	mCi	uCi		
2-4-2019 8:58:34AM	A D	0.000	153.700	0.000	0.101	0.120	0.069	120.400

Tech Information :

Tech	Tech Name
AD	Andrea Davis

The above Report indicates all of the Dose Cal. Constancy Test have PASSED.

All of the Test Results fall within the +/- 5.00% Regulatory Trigger Limit.

Technologist Signature: _____



Calicheck Linearity

Dose Calibrator :	CRC - 7	Source :	Tc99m
Manufacturer :	Capintec	Config :	Syringe
Serial Number :	71313	Date :	02-04-2019
Location :	HOT LAB	Time :	08:42
Technologist :	Andrea Davis	Comment :	Initial Testing 1013 Garfield Ave

(A) # Tubes	(B) Displayed Activity	(C) Calibration Factors	(D) Product of [B * C]	Decay Time
1 Black Only	54.4000 mCi *	1.0000 =	54.4000	0.00
2 Black & Red	31.2000 mCi *	1.7634 =	55.0179	4.93
3 Black & Orange	16.5000 mCi *	3.3588 =	55.4209	10.52
4 Black & Yellow	5.6000 mCi *	10.0000 =	56.0000	20.00
5 Black & Green	2.0000 mCi *	27.9943 =	55.9887	28.94
6 Black & Blue	.5100 mCi *	107.3370 =	54.7418	40.62
7 Black & Purple	.0582 mCi *	918.6046 =	53.4628	59.27
8 Black & Purple & Red	.0294 mCi *	1795.4546 =	52.7864	65.09
9 Black & Purple & Orange	.0160 mCi *	3291.6667 =	52.6667	70.36
10 Black & Purple & Yellow	.0058 mCi *	9634.1465 =	55.8780	79.69
			SUM :	546.3632
MEAN = SUM / 10 =		54.6363		
MEAN * 1.05 =		57.3681 UPPER LIMIT [+ 5.00 %]		
MEAN * 0.95 =		51.9045 LOWER LIMIT [- 5.00 %]		

NOTE: Compare PRODUCT(B*C) to Upper and Lower Limits to Confirm Linearity

The Linearity test has **PASSED**

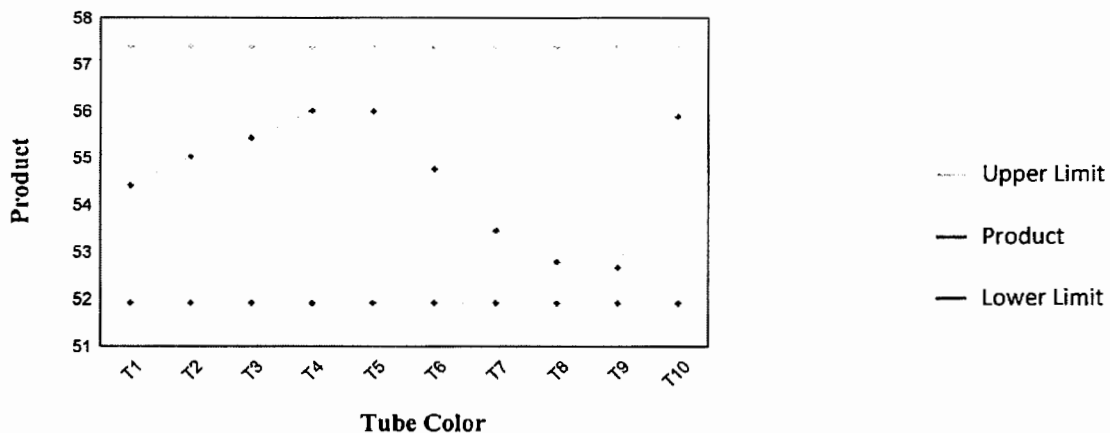
All Readings have Fallen within +/- 5.00 % NRC/State Limit.

Test performed by : *Andrea Davis* 2/4/19
 Reviewed by : _____
 Comments : _____

Parkersburg Cardiology
Nuclear Medicine Department
Calicheck Linearity

Dose Calibrator : CRC - 7
Manufacturer : Capintec
Serial Number : 71313
Location : HOT LAB
Technologist : Andrea Davis

Source : Tc99m
Config : Syringe
Date : 02-04-2019
Time : 08:42
Comment : Initial Testing 1013 Garfield Ave



Dose calibrator linearity is required to be performed upon installation, quarterly (US)/semiannually (Canada), after each repair and/or as otherwise specified by your radioactive materials license.

**PARKERSBURG CARDIOLOGY
CHI-SQUARE TEST WELL COUNTER**

INSTRUMENT: CAPRAC

DATE: 2/4/2019

DATA	DATA
61240	61110
60820	61060
61000	61210
60980	61020
61340	61290
MEAN=	61107
$\Sigma(N-R)^2 =$	235810
CHI-SQUARE =	3.86

PASSING

CHI-Square<13

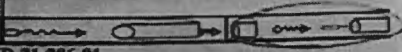
Certificate of Calibration

A.M. Calibration Services

9880 Medical Center Drive
Rockville Md 20850
Phone:301-379-8013

amcalibrationservices@gmail.com

Master Device: Peripneumon Cardiobox	Manufacturer: Ludlum
Calibration Date: 4/17/2019	Model Number: 14-C
Calibration Due Date: 4/17/2019	Serial Number: 110445

Location: 

AM Calibration Radioactive Material License: MD-31-286-01

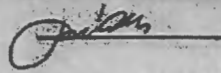
Inspection Item	
Batteries Changed	no
Internal Adjustment	no

Instrument Calibration Information

	44-7	112700	no cap	
Instrument Scale	mR/hr		CF	Scale
	Reading	True Reading	Scale CF	CF
x 1000.0	1200	1306	1.088	0.980
x "	380	331	0.871	"
x 100.0	127	149	1.173	1.082
x "	38	37.7	0.992	"
x 10.0	11	13.7	1.245	1.094
x "	3.5	3.3	0.942	"
x 1.0	1.5	1.5	1.000	1.000
x "	0.38	0.38	1.000	"
x 0.1	0.14	0.14	1.000	1.000
x "	0.08	0.08	1.000	"
Check Source Reading =			5.50mR/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. Measurements were made with CNMC Company electrometer Model 206 and Capintec Model PM30 (30 cc) cylindrical ionization chamber. And in accordance with ANSI-N323 and as recommended by manufacturer.

Calibrated By: Andrew J McAlear



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



ACKNOWLEDGEMENT - RECEIPT OF CORRESPONDENCE

Name and Address of Applicant and/or Licensee Camden-Clark Memorial Hospital Corporation ATTN: Steve Altmiller, President and CEO 800 Garfield Avenue P.O. Box 718 Parkersburg, WV 26102	Date March 13, 2019
	License Number(s) 47-09772-02
	Mail Control Number(s) 611564
	Licensing and/or Technical Reviewer or Branch Medical Branch

This is to acknowledge receipt of your: Letter and/or Application Dated: 02/15/2019

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:

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