

CHARLES G. ARTINIAN, M.D., F.A.C.C.



Cardiology

318 W. WRIGHT AVENUE
SHEPHERD, MICHIGAN 49883
PHONE (989) 828-4700
FAX (989) 828-6209

Fax Cover Sheet

Send to: <i>NRC</i>	From: Charles G. Artinian, M.D.
Attention: <i>Jose Macatangay</i>	Date: <i>October 7, 2009</i>
Fax Number: <i>630-515-1078</i>	Office Location: <i>Shepherd, MI</i>
Cc:	Phone Number: <i>(989) 828-4700</i>

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Total pages, including cover:

Comments:

*Closeout Survey
for NRC Materials license*

This fax was sent by *Shannon England, RT(N)*

OCT-07-2009 15:34 From:

CHARLES G. ARTINIAN, M.D., F.A.C.C.

Cardiology

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October 7, 2009

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

**RE: Closeout Survey for NRC Materials License No. 21-32510-01
Charles Gary Artinian, M.D.**

Dear Mr. Macatangay:

Please find the enclosed **Closeout Survey for our NRC Materials License.**
Item #1

Enclosed are the results of the close-out survey of our Nuclear Medicine
department at

318 W. Wright Ave.
Shepherd, MI 48883

A close-out survey was performed on October 7, 2009 at the above address and
the results are enclosed for your review.

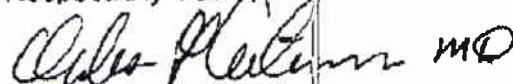
The last date of receipt and use of radioactive material at this site was October
6, 2009 for Tc-99m, and November 22, 2005 for Tl-201. No other radioactive
materials were used at this location.

A current copy of the lead test results for the sealed sources used at our facility
is enclosed for your review. These sources include a Co-57 flood source and
vial, Cs-137 vial and rod, and Ba-133 vials for constancy and accuracy testing.
These sources were placed in storage prior to performing the close-out survey.

We did not dispose of radioactive materials by release to sewers or incineration.
In addition, there were no spills of any long-lived radioactive material or on-site
burials of radioactive materials.

Thank you for your cooperation. If you have any questions or require additional
information, please contact our physics consultant, Kevin B. Miller at 734-662-
3197.

Respectfully Yours,

X  MD

Charles Artinian, M.D.

CHARLES G. ARTINIAN, M.D., F.A.C.C.



Owner

Cardiology

318 W. WRIGHT AVENUE
 SHEPHERD, MICHIGAN 48883
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Close-out Survey

Date performed: October 7, 2009

Performed by: Shannon England, R.T. (N)

Comments: Sealed sources and radioactive trash were placed in storage prior to performing the close-out survey.

Instruments

Wipe tests analyzed with a SpecTech ST360 S/N#0505311.

Instrument: Well Counter

Radionuclide: Full Spectrum

MDA for Full Spectrum: 509 dpm

Date completed: 08/12/05

Conversion factor: 1.0 cpm/dpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum

Type: GM

Model Number: 14C

Serial Number: 215021

Probe Model: End Window

Annual Calibration Date: 08/08/09

Battery check acceptable: YES

Operational check acceptable: YES

Current reading: 3.0 mR/hr

History of Radionuclides Used

Unsealed: The last date of receipt and use of radioactive material at this site was October 6, 2009 for Tc-99m, and November 22, 2005 for Tl-201. No other radioactive materials were used at this location.

Sealed: Cs-137 Vial and Rod, Ba-133 Vial, and Co-57 Flood and Vial last used October 6, 2009.

Last date of byproduct radiopharmaceutical use: October 6, 2009.



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Close-out Survey - continued

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been placed in storage.

Sealed Source Leak Testing: No history of leaks from Sealed Sources.

Radiation Level Survey: No area within the department demonstrated radiation levels in excess of the background reading of 0.03 mR/hr.

Removable Contamination: No area within the department demonstrated removable contamination in excess of 61.0 dpm's. There is no history of any spills of long-lived radioisotopes.

Conclusion: No radioactive materials remain in this department. No removable contamination is present.

Removable Contamination

Charles Gary Artinian, M.D.
License # 21-32510-01

Performed


Date: 10/7/2009 **By:** Shannon England
Well Counter: SpecTech 360 **MDA:** 509
Survey Meter: Ludlum 14C GM **Check Value:** 3.0 mR/hr
 Calibrated 08/08/09

		cpm	net dpm	mR/h
1	Treadmill	632.00	61	0.03
2	Floor	580.00	9	0.03
3	Floor	571.00	0	0.03
4	Stress Lab Chair	587.00	16	0.03
5	Stress Lab Doorway	571.00	0	0.03
6	Hot Lab Doorway	580.00	9	0.03
7	Hot Lab Counter	571.00	0	0.03
8	Hot Lab Floor	571.00	0	0.05
9	Waste Storage Area	571.00	0	0.07
10	Package Receipt	616.00	45	0.03
11	Imaging Table	571.00	0	0.03
12	Acq/Proc Station	571.00	0	0.03
13	Floor	571.00	0	0.03
14	Imaging Room Floor	571.00	0	0.03
15	Imaging Rm Floor	571.00	0	0.03
16				
17				
18	Background	588.00		
19	Background	565.00		
20	Background	561.00		

1.0.1

1.0.2

1.0.3

Ave. Background	571		0.02
ACTION LEVELS: 2000 dpm < 0.2 mR/hr COMMENTS: No evidence of removable contamination.	Efficiency (dpm/cpm):	1	
✓ Signature: 			

Maximum removable contamination: 61.0 net dpm/100 cm²

Conclusion

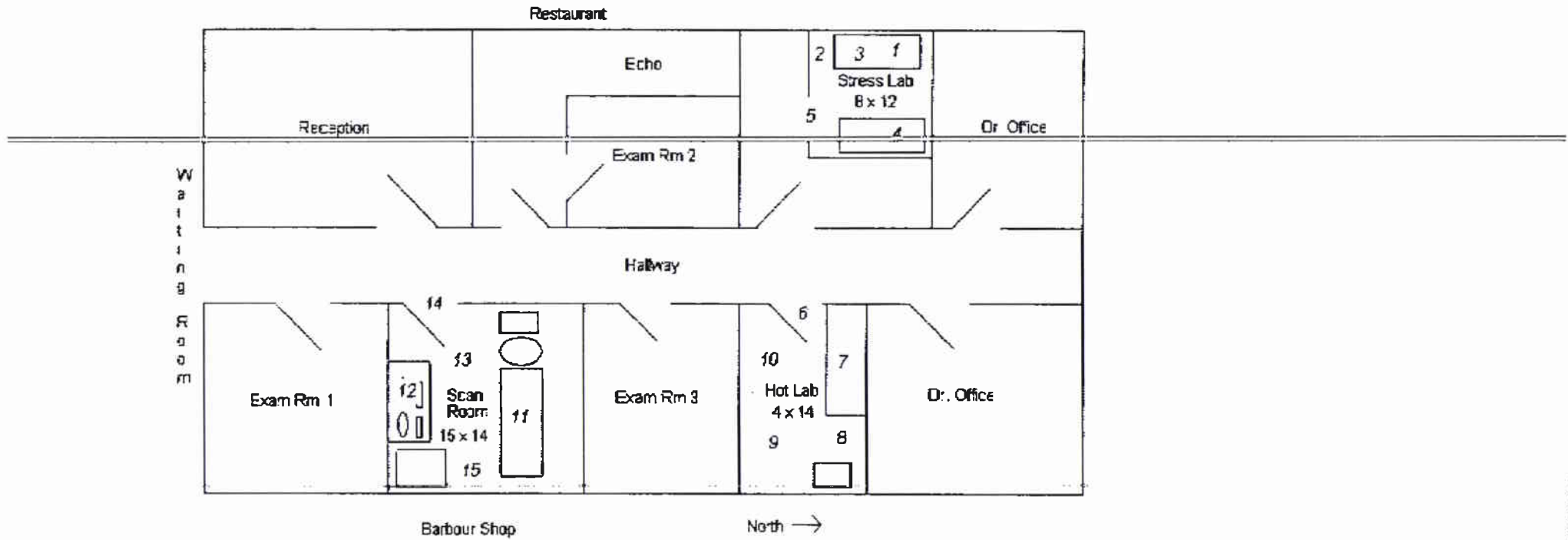
As of October 7, 2009 no removable contamination was present.

UJ-81-5545 JB:LS FROM: ARILINIAN
Oct 07 09 04:03p

19:200 210 1018
9894660645
p.2 P.B/B

Charles Gary Artinian, M.D.
318 W. Wright Ave
Shepherd, MI 48883
NRC Materials License # 21-32510-01

Nuclear Medicine Department



Location: Charles G. Artinian, M.D. Date of Inspection: May 7, 2009

SEALED SOURCE INVENTORY

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.7 uCi	09/01/05	IPL	RV-137-200U	1124-79-15
Ba-133	vial	Hot Lab	223.5 uCi	09/01/05	IPL	RV-133-250U	1124-86-6
Co-57	vial	Hot Lab	5.238 mCi	09/01/05	IPL	RV-057-5M	1124-78-11
Cs-137	rod	Hot Lab	0.096 uCi	02/05	Spectrum		
Co-57	flood	Hot Lab	5 mCi	03/01/07	IPL	NES-391	1229-011

RSO: 

SEALED SOURCE LEAK TEST

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	196.7 uCi	09/01/05	IPL	RV-137-200U	1124-79-15
Ba-133	vial	Hot Lab	223.5 uCi	09/01/05	IPL	RV-133-250U	1124-86-6
Co-57	vial	Hot Lab	5.238 mCi	09/01/05	IPL	RV-057-5M	1124-78-11
Co-57	flood	Hot Lab	5 mCi	03/01/07	IPL	NES-391	1229-011

COMMENT: The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.

TESTED BY: Vincent McCormick, M.S.

DATE: May 7, 2009

RSO: 