

Virginia Cardiovascular Care, Inc.  
8505 Arlington Blvd., Suite 350  
Fairfax, VA 22031

November 7, 2006

J-6

United States  
Nuclear Regulatory Commission  
Dennis Lawyer, Health Physicist  
Region 1  
475 Allendale Road  
King of Prussia, PA 19406-1415

LL 31217  
030 37400  
02201

2006 NOV 13 AM 10:30

RECEIVED  
REGION 1

(45-31217-01)

RE: License Number 32-25619-01  
Control Number 139595

Dear Mr. Lawyer,

Thank you for responding to our letter of October 16, 2006, requesting to amend Nuclear Regulatory License No. 32-25619-01.

For reasons set forth below, the request to amend the above referenced license (the "License") should have requested that it be amended to reflect Virginia Cardiovascular Care, Inc., as the new owner of the License. Accordingly, request is hereby made to amend the License to reflect Virginia Cardiovascular Care, Inc., as the new owner of the License.

The change of ownership (control) has not taken place. We are seeking your written consent to do so.

Virginia Nuclear Cardiology, P.L.C., a Virginia professional limited liability company ("VNC"), was formed by several different cardiologists and/or the professional corporations which they controlled to join together solely for the purpose of performing nuclear cardiology diagnostic testing. One of the members of VNC was Virginia Cardiovascular Care, Inc., a Virginia professional corporation (the "Transferee"). The President and one of the shareholders of VCC is Shahryar Mafi, M.D., the person to whom your letter of November 3, 2006, was addressed.

REC'D IN LAT JAN 31 2007

140027  
NMSS/RGN MATERIALS-002  
REF. 139595

VNC leased the facilities, equipment and personnel to perform nuclear cardiology diagnostic testing from MedCath Diagnostics, L.L.C., a North Carolina professional limited liability company (the "Transferor"). The Transferor possesses the License in question. VNC's lease with the Transferor was subsequently amended to do sleep studies and lease facilities, equipment and personnel from the Transferor at a different location than where the nuclear diagnostic testing facilities were.

After it became apparent that nuclear cardiology was to become a designated health service under the Stark law effective January 1, 2007, the arrangement between VNC and the Transferor would no longer be legally sustainable after December 31, 2006. Accordingly, it was determined that (i) VNC would continue its relationship with the Transferor for sleep studies only but not for nuclear cardiology diagnostic testing, and (ii) some but not all of the physicians and/or their professional corporations which they controlled that were members of VNC would reorganize themselves so as to comply with the Stark law subsequent to January 1, 2007. In this "reorganization," it was determined that the Transferee would be the entity under which the physicians would practice nuclear cardiology and offer other cardiology services to the general public in order to comply with Stark.

In addition to Shahryar Mafi, M.D., Khalid Abousy, M.D., the radiation safety officer, is also a shareholder, officer and director of the Transferee. The reorganization agreed to by the VNC physicians who were going to continue to practice nuclear cardiology medicine together, will take the form of their respective professional corporations entering into a C Reorganization with the Transferee, to be effective January 1, 2007.

The Transferee has purchased from the Transferor the assets of the Transferor at the facility where the nuclear cardiology diagnostic testing took place, by a Bill of Sale dated October 5, 2006. The Transferee and the Transferor have signed a Lease Assignment Agreement, with the approval of the landlord and VNC, transferring the lease of the facility that was rented by VNC from the Transferor to the Transferee. The Amended and Restated Lease Agreement between VNC and the Transferor was further amended by a First Addendum effective September 30, 2006, providing (i) for the sale of the assets of the facility where the nuclear diagnostic tests were conducted to the Transferee, (ii) that the lease to the facility in question be transferred to the Transferee with the landlord's consent, (iii) that the Transferor's personnel could be hired by the Transferee if they chose to so transfer after the completion of the transaction, and (iv) that the provisions of the Amended and Restated Lease Agreement as to the sleep medicine portion would continue between the Transferor and VNC. This First Addendum to the Amended and Restated Lease Agreement was further amended by a side letter which was necessary in order to provide the Transferee with additional time to secure the nuclear license in question and to assist the Transferee with the transition of nuclear services. In short, the Transferee is continuing to lease certain services from the Transferor until such time as the License in question can be transferred from the Transferor to the Transferee, at which

time all contractual relationships between the Transferor and the Transferee will terminate, except those that survive pursuant to the various agreements listed above.

In short, neither the ownership nor the control of the License has transferred.

Drs. Mafi and Abousy currently are the directors of the Transferee. The other physicians who control the professional corporations that will engage in a C Reorganization with the Transferee will, after January 1, 2007, become directors of the Transferee's Board of Directors.

In further response to your letter of November 3, 2006, requesting more information:

a. See above. In particular, pursuant to the C Reorganization, Michael H. Goldman, M.D., P.C., Cardiac Care Center, P.C., and Fairfax Cardiology, P.C., will enter into a C Reorganization with the Transferee to be effective January 1, 2007. As a result of the C Reorganization, Michael H. Goldman, M.D., P.C., Cardiac Care Center, P.C., and Fairfax Cardiology, P.C., will transfer substantially all of their assets to the Transferee in exchange for common capital stock of the Transferee. Michael H. Goldman, M.D., P.C., Cardiac Care Center, P.C., and Fairfax Cardiology, P.C., will thereafter liquidate and distribute the Transferee's stock to the shareholders of the liquidating corporation as a liquidating distribution.

b. The new name will be as follows:  
Virginia Cardiovascular Care, Inc. (VCC, Inc.)  
Shahryar Mafi, M.D., President  
8505 Arlington Blvd., Suite 350  
Fairfax, VA 22031

The (VCC, Inc.) Radiation Safety Officer listed with the NRC is Khalid Abousy, M.D.  
VA License 0101057285  
Expiration 07-31-2008

Kristi Hurst  
Virginia Cardiovascular Care, Inc.  
Practice Administrator  
703-849-8891

c. There will not be any changes to the personnel or duties as related to the licensed program. The personnel that were leased by the Transferee from the Transferor are remaining in place, and those people will retain the same duties for the Transferee that they had with the Transferor.

d. There will not be any changes in the organization, location, facilities, equipment or procedures that related to the licensed program.

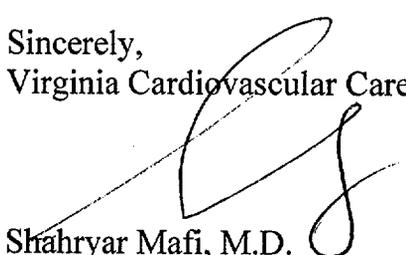
e. On a quarterly basis Krueger-Gilbert Health Physics, Inc. (K-G) will provide/perform radiation surveys at our Fairfax and Woodbridge sites to assure conformance with the current Federal and State license requirements. The surveys will include measurements of radiation levels in areas of typical exposure, review of staff-conducted surveys and other pertinent records. Krueger-Gilbert will also be monitoring our Landauer Badges. They will prepare documentation for radioactive material licensure, to include license amendments, renewal applications, etc. K-G will provide responses to and interpretation of regulatory action. They will provide the following services on a quarterly basis at each location: A) Calibrate the dose calibrator in accordance with the State requirements. B) Linearity determination of the dose calibrator based on data submitted by the staff. C) Inventory and leak test of all sealed sources of radioactive material. The following services will be provided on a semi-annual basis: Calibrate up to two radiation survey meters at each location either in our laboratory or by a licensed calibration facility. K-G agrees to annually, one training session at each location to technical personnel in accordance with State and Federal requirements. They will provide telephone consultations as needed.

f. Virginia Cardiovascular Care, Inc has contracted with Stericycle, Inc to remove and dispose of Customer's Regulated Medical Waste (Hazardous Waste as applicable) every 2 weeks (26 pick ups per year.) The past records remain on file in a locked cabinet at the 8505 Arlington Blvd. and Woodbridge Offices.

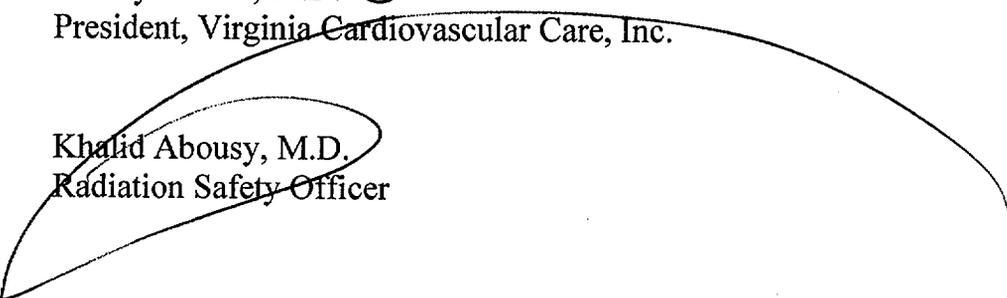
g. The Transferee will abide by all constraints, conditions, requirements and commitments of the Transferor.

I hope this answers your questions, feel free to contact me directly at 703-849-8891 if you have any other questions. I look forward to hearing from you soon.

Sincerely,  
Virginia Cardiovascular Care, Inc.



Shahryar Mafi, M.D.  
President, Virginia Cardiovascular Care, Inc.



Khalid Abousy, M.D.  
Radiation Safety Officer



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

November 3, 2006

Docket No. 03036208  
Control No. 139595

License No. 32-25619-01

Shahryar Mafi, M.D.  
Owner  
Shahryar Mafi, M.D., FACC  
Virginia Cardiovascular Care  
Prosperity Center Medical Office Building A  
8505 Arlington Boulevard, Third Floor Suite  
Fairfax, VA 22031

SUBJECT: SHAHRYAR MAFI, M.D., FACC, REQUEST FOR ADDITIONAL INFORMATION  
CONCERNING APPLICATION FOR AMENDMENT TO LICENSE, CONTROL  
NO. 139595

Dear Dr. Mafi:

This is in reference to your letter received October 16, 2006 requesting to amend Nuclear Regulatory Commission License No. 32-25619-01. In order to continue our review, we need the following additional information:

It appears from your letter that a possible change of ownership (control) has occurred. Licensees must provide full information and obtain NRC's **prior written consent** before transferring control of the license. Control of a license is in the hands of the person or persons who are empowered to decide when and how that license will be used. That control is to be found in the person or persons who, because of ownership or authority explicitly delegated by the owners, possess the power to determine corporate policy and thus the direction of the activities under the license. A transferee is an entity that proposes to purchase or otherwise gain control of an NRC-licensed operation. A transferor is an NRC licensee selling or otherwise giving up control of a licensed operation. Provide the following information concerning changes of control by the applicant (transferor and/or transferee, as appropriate). If any items are not applicable, so state.

- a. Provide a complete description of the transaction (transfer of stocks or assets, or merger).
- b. Indicate whether the name has changed and include the new name. Include the name and telephone number of a licensee contact who NRC may contact if more information is needed.
- c. Describe any changes in personnel or duties that relate to the licensed program. Include training and experience for any new personnel.
- d. Describe any changes in the organization, location, facilities, equipment or procedures that relate to the licensed program.

ML063070426

S. Mafi  
Shahryar Mafi, M.D., FACC

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- e. Describe the status of the surveillance program (surveys, wipe tests, quality control) at the present time and the expected status at the time that control is to be transferred.
- f. Confirm that all records concerning the safe and effective decommissioning of the facility will be transferred to the transferee or to NRC, as appropriate. These records include documentation of surveys of ambient radiation levels and fixed and/or removable contamination, including methods and sensitivity.
- g. Confirm that the transferee will abide by all constraints, conditions, requirements and commitments of the transferor or that the transferee will submit a complete description of the proposed licensed program.

Current NRC regulations and guidance are included on the NRC's website at [www.nrc.gov](http://www.nrc.gov); select **Nuclear Materials; Medical, Academic, and Industrial Uses of Nuclear Material**; then **Toolkit Index Page**. Or you may obtain these documents by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 8:00 p.m. EST, Monday through Friday (except Federal holidays).

We will continue our review upon receipt of this information. Please reply to my attention at the Region I Office and refer to Mail Control No. 139595. If you have any technical questions regarding this deficiency letter, please call me at (610) 337-5366.

If we do not receive a reply from you within 30 calendar days from the date of this letter, we will assume that you do not wish to pursue your application.

Sincerely,

***Original signed by Dennis R. Lawyer***

Dennis R. Lawyer  
Health Physicist  
Commercial and R&D Branch  
Division of Nuclear Materials Safety

cc:  
Khalid Abousy, M.D., Radiation Safety Officer  
Keith S. Law, VP, MedCath Inc.

S. Mafi  
Shahryar Mafi, M.D., FACC

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DOCUMENT NAME: G:\Docs\Current\Lic Def Letter\L32-25619-01.139595.wpd

Friday, November 03, 2006 8:55:59 AM

**SUNSI Review Complete: DLawyer**

After declaring this document "An Official Agency Record" it will be released to the Public.

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI	DNMS/RI				
NAME	DLawyer							
DATE	11/03/2006							

OFFICIAL RECORD COPY



VCC

*Virginia Cardiovascular Care*

Shahryar Mafi, M.D., FACC

14904 Jefferson Davis Hwy.  
Suite 406  
Woodridge, VA 22191  
Phone 703-492-0709  
Fax 703-492-7323

RECEIVED  
REGION 1

2006 OCT 16 PM 2:03

US NRC REGION I  
ATT: LAT 475  
Allandale Road  
King of Prussia, PA 19406

ATT: Steven Courtemanche  
Bryan Parker

*SQC 10/18/06*

RE: License No. 32-21619-01  
Ownership and name change

03036208

Please amend the above referenced license to reflect the following changes:

New ownership: Shahryar Mafi, M.D., FACC  
New facility name: Virginia Cardiovascular Care, Inc.

Any questions regarding this request may be directed to the undersigned.

Sincerely,

Khalid Abousy, M.D.  
Radiation Safety Officer

**VIRGINIA NUCLEAR CARDIOLOGY**  
**8505 ARLINGTON BOULEVARD #350**  
**FAIRFAX, VA 22031**  
**PHONE) 703-849-8891 FAX) 703-849-8894**

# VNC FAX

TO: Dennis Lawyer

FROM: Kristi Hurst

FAX: \_\_\_\_\_

PAGES: 13 12<sup>REV</sup>

PHONE: \_\_\_\_\_

DATE: NOV. 13, 2006

RE: mail control #  
139595

CC: \_\_\_\_\_



\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





# Krueger-Gilbert Health Physics, Inc.

3601 EAST JOPPA ROAD  
BALTIMORE, MARYLAND 21234  
(410) 665-KGHP (5447) FAX (410) 665-2074

August 18, 2006

## RADIATION PROTECTION SURVEY REPORT

ATTENTION: Khalid Abonsy, M.D.  
Virginia Nuclear Cardiology

The following report contains our findings and recommendations with regard to personnel dosimetry, facility design and equipment, postings, review of required records and results for surveys and tests performed at the time of this site visit.

The survey criteria employed by Krueger-Gilbert Health Physics, Inc. are those of the National Council on Radiation Protection and Measurement, Report No. 105, "Radiation Protection for Medical and Allied Health Personnel", Report No. 30, "Safe Handling of Radioactive Materials", and the Nuclear Regulatory Commission and the State of Virginia.

DEPARTMENT: Nuclear Medicine

FACILITY: Virginia Nuclear Cardiology  
8505 Arlington Boulevard  
Suite 350

CITY AND STATE: Fairfax, VA 22031

SURVEY DATE: August 1, 2006

Any questions regarding this report should be directed to Wendy Charlton, Health Physicist.

(n 0806 Virginia Nuclear Cardiology-Fairfax)ch

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006

## RADIATION PROTECTION SURVEY REPORT

### RADIOACTIVE MATERIAL AUTHORIZED

Virginia Nuclear Cardiology, Inc. is authorized to possess and use radioactive material under NRC License Number 32-25619-01 and VA-508-03. This NRC license will expire on March 31, 2013 and the Virginia license will expire on February 1, 2007. An NRC inspection of the license on May 20, 2003 demonstrated no violations.

Radioactive material is limited to the types and quantities listed below:

<u>Material</u>	<u>Possession Limit</u>
10CFR 35.200	As needed for cardiac imaging
Co-57 (sealed source)	30 mCi
Tl-201 (any form)	200 mCi
Ga-67 (liquid)	1 mCi

### PERSONNEL MONITORING REQUIREMENTS

1. The technologist was noted to be wearing extremity and whole body dosimetry devices properly.
2. Dosimetry records were reviewed for the first quarter of 2006. One employee exceeded ALARA Level I for the time period. An ALARA Review is attached.

### FACILITY DESIGN & EQUIPMENT

1. Adequate facilities were provided for the safe storage, preparation and use of radioactive materials so that radiation levels in adjacent areas did not exceed acceptable standards and were as low as reasonably achievable.
2. Vial shields, syringe shields and syringe holders were available for use by the staff.
3. Two radiation survey meters were on hand at the time of the survey.

The Ludlum Model 14C SN 191960 survey meter with 44-9 probe was last calibrated on May 25, 2006. This meter is equipped with a dedicated check source. The exposure range for this meter is 0 to 2000 mR/hr.

The Ludlum Model 14C SN 191430 survey meter with 44-9 probe was last calibrated on February 3, 2006. This meter is equipped with a dedicated check source. The exposure range for this meter is 0 to 2000 mR/hr.

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006  
Page 2

#### REQUIRED POSTINGS

1. Radiation caution signs, emergency notification, the radioactive materials license and agency form "Notice to Employees" must be posted. At the time of the survey, emergency notification was not posted.
2. Reference to the location of the State regulations for control of ionizing radiation, as well as the supporting documentation for the license, must be posted.
3. It is recommended that a radioactive material prescribed dosage schedule be developed, approved by an authorized user, and posted at the dosage preparation area in the Hot Lab.

#### RECORD REVIEW

1. The following health physics records were reviewed:
  - A. Radioactive material receipt: Incoming packages must be surveyed for exposure and contamination as well as checked for contents and package condition. The survey form provides written documentation of the following:
    - Date of receipt
    - Package condition
    - Radiation levels: surface, at one meter, background
    - Wipe test results: outside surface and background
    - Detector efficiency
    - Description of instruments used
    - Technologist's initials

Records reviewed for May and June, 2006 were complete.
  - B. Radiopharmaceutical administration records: Unit doses are being provided by a commercial pharmacy. Administration records should include:
    - Prescription label (radionuclide description)
    - Patient name
    - Activity administered
    - Time of administration
    - Technologist's initials

Dose administration records are maintained on the dose ticket.
  - C. Molybdenum breakthrough records: Radionuclide purity is assessed by the commercial pharmacy. As per prescription labels, molybdenum content is less than 0.15  $\mu\text{Ci } ^{99}\text{Mo}$  per mCi  $^{99\text{m}}\text{Tc}$  at expiration. Doses must be used prior to stated expiration.

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006  
Page 3

RECORD REVIEW (continued):

- D. Radioactive material shipment log: Unused doses and contaminated syringes will be returned to the radiopharmacy. These returns are made as "limited quantity" shipments. Outgoing packages must be surveyed for exposure and checked for removable contamination before release. Records should be maintained and include the following:
- Surface survey (mR/hr)
  - Wipe test (net dpm)
  - Technologist's initials
  - Confirmation package meets limited quantity specifications.
- E. Radioactive waste disposal: The facility holds radioactive waste for decay in storage. At the time of the survey, there was waste in storage. The intended waste disposal log must contain the following information:
- Date of storage
  - Description of material
  - Date of disposal
  - Survey results (background and surface of container)
  - Survey device used
  - Technologist initials

As a reminder, waste should always be surveyed in a low background area prior to release.

F. Dose calibrator records:

All radiopharmaceuticals must be assayed for activity to an accuracy of  $\pm 10$  percent. The most common instrument for accomplishing this is an ionization type dose calibrator. The instrument must be checked for accurate operation at the time of installation and periodically thereafter. The following tests are required:

- Instrument constancy (daily)
- Instrument accuracy (at installation and annually thereafter)
- Instrument linearity (at installation and quarterly thereafter)
- Geometric variation (at installation)

An Atomlab 100 #3333918 ionization type dose calibrator is used for assaying patient doses. A review of the required dose calibrator tests was conducted with the following findings and recommendations:

**NOTE:** A geometric variation evaluation was available for the dose calibrator. However, there was no date for the evaluation. If the date of the evaluation cannot be located, the evaluation should be repeated.

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006  
Page 4

RECORD REVIEW (continued):

F. (continued):

1. Daily Instrument Constancy

Instrument constancy means that there is reproducibility within a stated acceptable degree of precision in measuring a constant activity over time. The dose calibrator constancy should be evaluated over the range of photon energies and source activities used clinically.

Records indicate that instrument constancy has been evaluated for Cesium-137 and Cobalt-57 on a daily basis. Survey results must be within +/-10% of the predicted activity.

2. Instrument Accuracy

The accuracy of the dose calibrator for Cesium-137 and Cobalt-57 was assessed at the time of this visit and found to be acceptable. This test is performed by Krueger-Gilbert Health Physics, Inc. as part of the quarterly service.

3. Instrument Linearity

The linearity of a dose calibrator must be ascertained on a quarterly basis over the entire range of activities used clinically down to 30 microcuries. Corrective action must be taken if the measured activity deviates by more than  $\pm 10$  percent from the calculated activities. A decay linearity was acceptable in February, 2006. A linearity was in progress at the time of this survey.

G. Sealed source inventory and leak test records: As per State regulations, sealed sources must be inventoried on a quarterly basis and tested for leakage at intervals not to exceed 6 months. Krueger-Gilbert Health Physics, Inc. conducted a physical inventory and sealed source leak test at the time of this visit. These results are reported under a separate cover.

H. Daily area survey records: Exposure rates are measured each day in areas where radioactive materials are prepared, injected and stored. Corrective action must be taken when trigger levels are exceeded.

Records for May through July, 2006 were below the trigger levels.

I. Weekly area survey records: Wipe testing for detection of spreadable contamination must be conducted on a weekly basis in areas of injection, preparation, use, and storage. Corrective action must be taken when the trigger level (2000 nct DPM) is exceeded.

Results for May through July, 2006 were below the trigger level.

J. Daily personnel monitoring log: Results must be documented for daily hand surveys. Survey results must be equivalent to background level, or corrective action must be implemented. Recent records were acceptable.

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006  
Page 5

RECORD REVIEW (continued):

- K. Camera Quality Control: Daily uniformity is checked extrinsically using a Co-57 flood source.
- L. Training: Nuclear Medicine staff completed a self-teaching package in May, 2006.

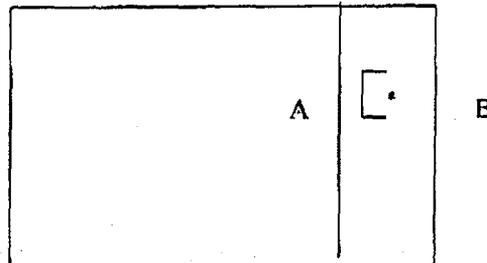
Virginia Nuclear Cardiology  
 Radiation Protection Survey  
 Survey Date: August 1, 2006  
 Page 6

AREA SURVEY

1. Radiation levels were measured in areas of typical personnel occupancy. The results were as follows:

	<u>mR/hr</u>
Background Level:	0.02
Waist level in front of the Nuclear Lab doorway:	0.02
Waist level in center of Scan Room:	0.03
Eye level in front of radioisotope storage area:	0.05
Waist level in front of radioisotope storage area:	0.03
Eye level in front of radioisotope preparation area:	0.02
Waist level in front of radioisotope preparation area:	0.03
Surface of cold trash receptacle:	0.03
Treadmill surface:	0.02

Instrument used: Ludlum Model 14C SN# 191430  
 Last Calibration date: February 3, 2006



	<u>mR/hr</u>
A = Sealed source storage area	0.05
B = Hallway	0.03

2. Wipe testing for detection of spreadable contamination was performed. Results indicated that there was no spreadable contamination in excess of 200 dpm per 100 cm<sup>2</sup>.

Virginia Nuclear Cardiology  
Radiation Protection Survey  
Survey Date: August 1, 2006  
Page 7

#### DOSE CALIBRATION ACCURACY TEST AND SEALED SOURCE LEAK TEST

1. The department's sealed sources were inventoried and leak tested. A certificate is attached.
2. The Atomlab 100 dose calibrator (SN#3333918) was checked for its accuracy, using NBS traceable sources. The results were as follows:

<u>ISOTOPE</u>	<u>TRUE ACTIVITY (mCi)</u>	<u>MEASURED ACTIVITY (mCi)</u>	<u>CALIBRATOR RANGE</u>	<u>DIAL SETTING</u>	<u>PERCENT ERROR</u>
Co-57	0.402	0.385	mCi	Co-57	4.4%
Co-57 (Tc-99m eq.)	0.474	0.462	mCi	Tc-99m	2.1%
Cs-137	0.189	0.180	$\mu$ Ci	Cs-137	4.7%
Cs-137 (I-131 eq.)	0.244	0.230	$\mu$ Ci	I-131	2.1%

The above values are within acceptable limits for this facility.

#### SOURCES USED:

Cobalt-57: NAS, MED 3550, SN #33228, Calibration 9.79 mCi, 03/01/03

Cesium-137: NAS, MED 3550, SN #35424, Calibration 204  $\mu$ Ci, 04/01/03

Any questions regarding the above should be addressed to the undersigned.

Krueger-Gilbert Health Physics, Inc.

*Wendy Charlton*  
Wendy Charlton  
Health Physicist



# Krueger-Gilbert Health Physics, Inc.

3601 EAST JOPPA ROAD  
BALTIMORE, MARYLAND 21234  
(410) 665-KGHP (5447) FAX (410) 665-2074

August 18, 2006

Facility: Virginia Heart, Inc.

## SEALED SOURCE INVENTORY AND LEAK TEST CERTIFICATE

Conducted: August 1, 2006

Leak test procedure: Wipe external surface of container and analyze in Ludlum well detector (2 x 2 inch NaI). Counting time will be dependent upon background levels and selected so that a minimum detectable activity of 0.001  $\mu\text{Ci}$  is obtainable. Detailed procedures and equipment quality control results are on file at the office of Krueger-Gilbert Health Physics, Inc.

### (SOURCES IN USE/AVAILABLE)

<u>Isotope</u>	<u>Manufacturer Serial No.</u>	<u>Activity/ Calibration Date</u>	<u>Leak Test Results Removable Activity (<math>\mu\text{Ci}</math>)</u>
Cs-137 (vial)	NAS MED 3550 35424	204 $\mu\text{Ci}$ 04/01/03	Less than 0.001
Co-57 (vial)	NAS MED 3550 33228	9.79 mCi 03/01/03	Less than 0.001
Cs-137 (rod)	NAS MED 3400 33752	0.111 $\mu\text{Ci}$ 03/01/03	Inventory only
Co-57 (flood)	Benchmark BM09100098	10 mCi 06/30/05	Less than 0.001
Co-57 (flood)	Benchmark BM04100015	10 mCi 04/28/03	Less than 0.001

Any questions regarding the above should be addressed to the undersigned.

Krueger-Gilbert Health Physics, Inc.

*Wendy Charlton*  
Wendy Charlton  
Health Physicist

Reviewed by: \_\_\_\_\_  
Radiation Safety Officer

\_\_\_\_\_ Date



# Krueger-Gilbert Health Physics, Inc.

3601 EAST JOPPA ROAD  
BALTIMORE, MARYLAND 21234  
(410) 665-KGHP (5447) FAX (410) 665-2074

August 18, 2006

## SUMMARY OF FINDINGS

ATTENTION: Khalid Abonsy, M.D.  
Virginia Nuclear Cardiology

DEPARTMENT: Nuclear Medicine

FACILITY: Virginia Nuclear Cardiology  
8505 Arlington Boulevard  
Suite 350

CITY AND STATE: Fairfax, VA 22031

SURVEY DATE: August 1, 2006

There were no negative findings at the conclusion of this survey.

Any questions regarding this report should be directed to Wendy Charlton, Health Physicist.

Virginia Nuclear Cardiology  
ALARA REVIEW  
First QUARTER OF 2006

The following Investigation Levels have been established in order to monitor individual occupational external whole body radiation exposures.

EXTERNAL DOSE	INVESTIGATIONAL LEVELS (mrem per calendar quarter)	
	LEVEL I	LEVEL II
1. Deep dose equivalent	125	375
2. Eye dose equivalent	375	1125
3. Shallow dose equivalent to skin	1250	3750
4. Shallow dose equivalent to extremity	1250	3750

Review of the dosimetry reports for the above stated quarter indicated the following:

1 Persons exceed Level I

0 Persons exceed Level II

Name Tonya Horton 146 mrem

Name \_\_\_\_\_

Name \_\_\_\_\_

Action Taken:

\_\_\_\_\_  
Radiation Safety Officer

\_\_\_\_\_  
Date

This signed report should be kept on file for State/Federal inspection.

Prepared by Krueger-Gilbert Health Physics, Inc.:

By: Wendy Charlton

Date: August 1, 2006

(FOR LFMS USE)  
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

: Program Code: 02201  
: Status Code: 3  
: Fee Category: \_\_\_\_\_  
: Exp. Date: 0  
: Fee Comments: \_\_\_\_\_  
: Decom Fin Assur Req: \_  
:.....

LICENSE FEE TRANSMITTAL

A. REGION **I**

1. APPLICATION ATTACHED

Applicant/Licensee: VIRGINIA CARDIOVASCULAR CARE, INC.  
Received Date: 20070131  
Docket No: 3037400  
Control No.: 140027  
License No.: **45-31217-01**  
Action Type: New Licensee

2. FEE ATTACHED

Amount: \_\_\_\_\_  
Check No.: \_\_\_\_\_

3. COMMENTS

**Administrative change. Mailing  
address change from NC to VA.**

Signed *M. A. Perkins*  
Date 1/31/2007

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered /\_/)

1. Fee Category and Amount: \_\_\_\_\_

2. Correct Fee Paid. Application may be processed for:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License \_\_\_\_\_

3. OTHER \_\_\_\_\_  
\_\_\_\_\_

Signed \_\_\_\_\_  
Date \_\_\_\_\_