

NCS

NC SYSTEMS, INC.
NUCLEAR CARDIOLOGY SYSTEMS
5660 AIRPORT BLVD., SUITE 101
BOULDER, CO 80301

August 8, 2007

Mr. Bill Reichhold
U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Rd, Suite 210
Lisle, IL 60532-4352

Re: Comprehensive Cardiovascular Consultants
NRC License 24-32459-01
Control No. 316317

Dear Sir,

Per your attached facsimile received this morning, we are providing the additional information you requested to review our request for facility close out at 3844 South Lindbergh Blvd., Suite 250, St. Louis, MO.

1. The only "unsealed" sources used at the site were ^{99m}Tc and ^{210}Tl . None of these radionuclides were present at close-out. No ^{131}I in the form of NaI was present in the facility. See the inventory attached.
2. The Sealed Source Leak Test and Inventory, dated 6/6/07, (Attachment 2-a), is a copy of the leak test results that were current at the time of the close-out survey for the sealed sources used or stored at the said facility. Attachment 2-b shows additional leak test results performed Oct. 01, 2003, as the only other historical reference data.
3. Attachments 3a and 3b provide a sketch of the facility with G-M and wipe test results keyed to the specific locations on the sketch.
4. The instrument used to perform the wipe tests is the Atomlab 450.

Please let us know if you need additional information.

Sincerely,

Sandra Nissen
Licensing Specialist

Encs.

RECEIVED AUG 14 2007

SEALED SOURCE INVENTORY

A physician inventory to account for all sealed sources on site has been conducted and the following sealed sources are currently in our inventory:

Nuclide: Co⁵⁷ Model #: _____ Serial #: 970-95-11

Assay Date: 8-1-03 Original Assay Activity: 5.598 mCi

Current Activity: 4.88 mCi

Nuclide: CS¹³⁷ Model #: _____ Serial #: 986-47-8

Assay Date: 8-1-03 Original Assay Activity: 195.7 uCi

Current Activity: 195 uCi

Nuclide: Ba¹³³ Model #: _____ Serial #: 988-69-2

Assay Date: 9-10-03 Original Assay Activity: 262 uCi

Current Activity: 262 uCi

Nuclide: Co⁵⁷ Model #: IES391 Serial #: 1009-023

Assay Date: 9-1-03 Original Assay Activity: 5 mCi

Current Activity: 4.65 mCi

Nuclide: _____ Model #: _____ Serial #: _____

Assay Date: _____ Original Assay Activity: _____

Current Activity: _____

This inventory was conducted by: R. L. White

Date of Inventory: 9/23/03

Location of Sealed Sources: HOT LAB

RSO Signature: _____

This sealed source inventory has been conducted in accordance with state 10 CFR 35.59 (g) or equivalent state regulation.

Sealed Source Leak Test and Inventory

Licensee: Comprehensive Cardiology Consultants

Address: 3760 S. Lindbergh Blvd., Suite 101

City: Sunset Hills

State: MO

Zip: 63127

License #: _____

Telephone: _____

Sample Identification / Analysis

Source	1	2	3	4
Nuclide	<u>Co-57</u>	<u>Co-57</u>	<u>133-Ba</u>	<u>137-Cs</u>
Mfg	<u>IPL</u>	<u>IPL</u>	<u>IPL</u>	<u>IPL</u>
Model	<u>FLOOD</u>	<u>REF</u>	<u>REF</u>	<u>REF</u>
Serial	<u>1009-023</u>	<u>970-95-11</u>	<u>988-69-2</u>	<u>986-47-8</u>
Assay Date	<u>1 Sep 2003</u>	<u>1 Aug 2003</u>	<u>1 Sep 2003</u>	<u>1 Aug 2003</u>
Activity	<u>5.0 mCi</u>	<u>5.59 mCi</u>	<u>262.4 uCi</u>	<u>195.7 uCi</u>

Current

Activity	<u>0.14 mCi</u>	<u>0.15 mCi</u>	<u>205.3 uCi</u>	<u>179.0 uCi</u>
Location	<u>H.L.</u>	<u>H.L.</u>	<u>H.L.</u>	<u>H.L.</u>
Use	<u>Camera</u>	<u>D.C.</u>	<u>D.C.</u>	<u>D.C.</u>

Wipe

Date	<u>6/1/07</u>	<u>6/1/07</u>	<u>6/1/07</u>	<u>6/1/07</u>
By	<u>AG</u>	<u>AG</u>	<u>AG</u>	<u>AG</u>

Assay

Date	<u>6/6/07</u>	<u>6/6/07</u>	<u>6/6/07</u>	<u>6/6/07</u>
μ Ci	<u>8.444e-05</u>	<u>1.919e-05</u>	<u>-1.535e-05</u>	<u>-7.185e-06</u>

LLD

μ Ci	<u>2.355e-05</u>	<u>2.355e-05</u>	<u>2.886e-05</u>	<u>1.487e-05</u>
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Analysis

<0.005 μ Ci	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
>0.005 μ Ci	_____	_____	_____	_____

Next Leak Test Due:(every 6 mo.) 12/6/07 **Next Inventory Due:**(every 3 mo.) 9/6/07

Comments/Actions: Recommend to Replace CO-57 Flood Source and Reference Source.

Assay Performed By: Peter Schiffhauer **Date:** 6/6/07

RSO Signature: _____ **Date:** _____



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5660 Airport Blvd., Suite 101 • Boulder, CO 80301 • (800) 548-4024 • (303) 541-0044 • (303) 541-0066 FAX

SealedSourceLeakTestInv6-02

Sealed Source Leak Test and Inventory

Licensee: Comprehensive Cardiovascular Consultants

Address: 3844 South Lindberg Suite 250

City: Sunset Hills

State: MO

Zip: 63127

License #: 24-32459-01

Telephone: _____

Sample Identification / Analysis

Source	1	2	3	4
Nuclide	<u>Co057</u>	<u>Co-57</u>	<u>Cs-137</u>	<u>Ba-133</u>
Mfg	<u>IPL</u>	<u>IPL</u>	<u>IPL</u>	<u>IPL</u>
Model	_____	_____	_____	_____
Serial	<u>970-95-11</u>	<u>1009-023</u>	<u>986-47-8</u>	<u>988-69-2</u>
Assay Date	<u>Aug-01-2003</u>	<u>Sep-01-2003</u>	<u>Aug-01-2003</u>	<u>Sep-01-2003</u>
Activity	<u>5.598 mCi</u>	<u>5 mCi</u>	<u>195.7 uCi</u>	<u>262.4 uCi</u>

Current

Activity	<u>4.788 mCi</u>	<u>4.630 mCi</u>	<u>194.9 uCi</u>	<u>261.0 uCi</u>
Location	<u>HL</u>	<u>IR</u>	<u>HL</u>	<u>HL</u>
Use	<u>DC</u>	<u>Camera</u>	<u>DC</u>	<u>DC</u>

Wipe

Date	<u>Sep-23-2003</u>	<u>Sep-23-2003</u>	<u>Sep-23-2003</u>	<u>Sep-23-2003</u>
By	<u>Alan Ganter</u>	<u>Alan Ganter</u>	<u>Alan Ganter</u>	<u>Alan Ganter</u>

Assay

Date	<u>Oct-01-2003</u>	<u>Oct-01-2003</u>	<u>Oct-01-2003</u>	<u>Oct-01-2003</u>
μCi	<u>0.00205</u>	<u>0.00041</u>	<u>-0.0009526</u>	<u>-0.007867</u>

LLD

μCi	<u>0.002708</u>	<u>0.002708</u>	<u>0.001738</u>	<u>0.003628</u>
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Analysis

<0.005μCi	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
>0.005μCi	_____	_____	_____	_____

Next Leak Test Due: (every 6 mo.) Mar/2004 Next Inventory Due: (every 3 mo.) Dec/2003

Comments/Actions: _____

Assay Performed By: Thomas Euler

Date: Oct-01-2003

RSO Signature: _____

Date: _____



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SealedSourceLeakTest&Invd-02

PASSED

Comprehensive Cardiovascular Consultants, Inc.**Decommissioning Survey of site: 3844 S. Lindbergh Blvd, Suite 250, Sunset Hills, MO 63127****May 29, 2007 at 14:30****by: A. Ganter, NC Systems, Inc.**

Survey Instrument: Ludlum 14-C, s/n: 192079, Cal date 5/7/07

Probe: side wall GM, s/n: PR 200232

Background reading: 0.02 mR/hrSurveys and Wipe locations:Survey reading*

1 Hot Lab Counter	0.02 mR/hr
2 Hot Lab Floor	0.02 mR/hr
3 Camera Area	0.02 mR/hr
4 Computer Area	0.02 mR/hr
5 Treadmill Area	0.02 mR/hr
6 Hot Lab Sink	0.02 mR/hr
7 Imaging Room Door	0.02 mR/hr
8 Stress Lab Door	0.02 mR/hr

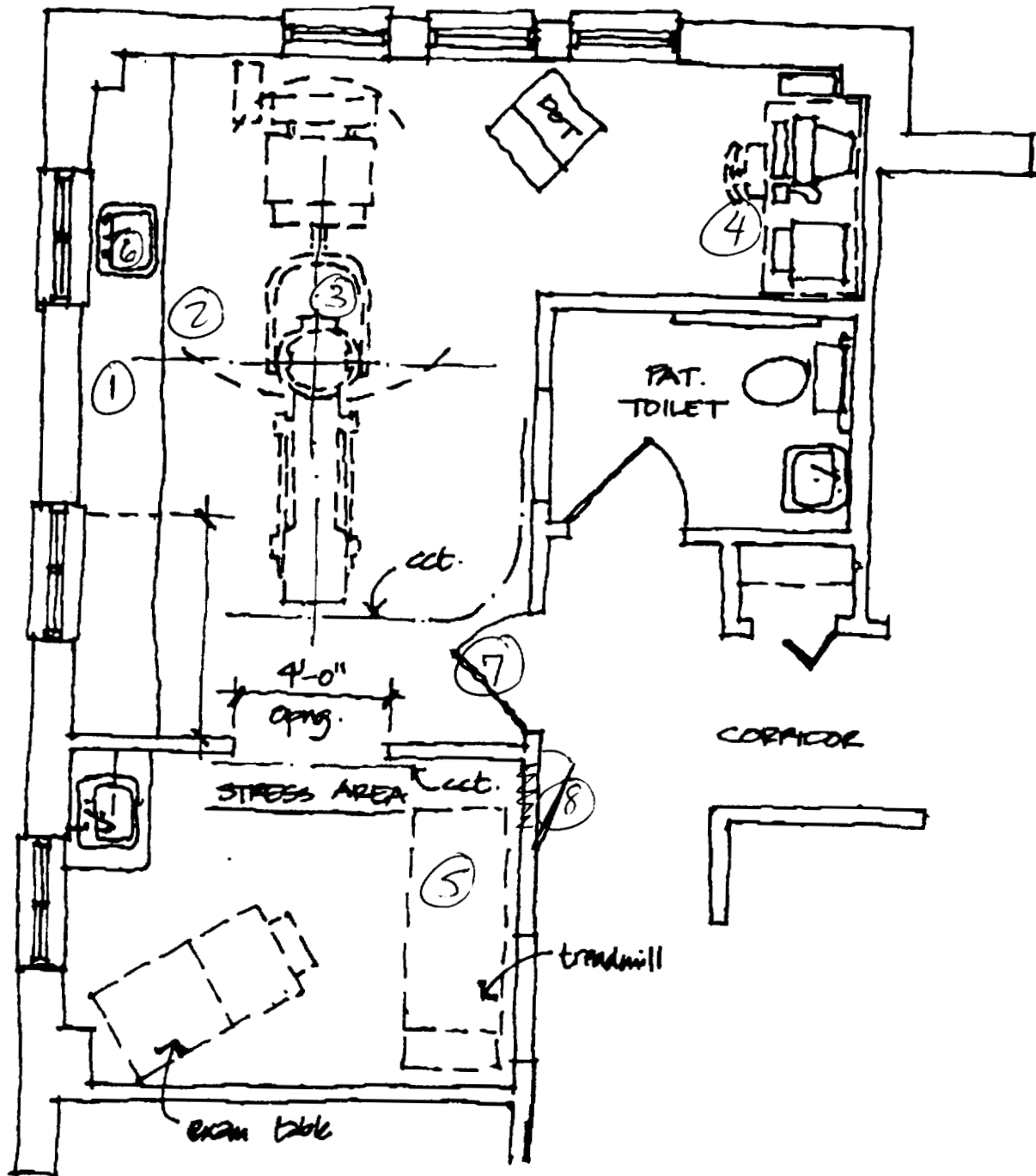
**See separate report for results of Wipe tests.*

No signs or placards were present, and the suite was devoid of furniture and free standing cabinetry. No equipment or accessory items were present. The suite was locked.

The last date of Radioactive Material use was Tuesday, May 15, 2007. The last use of 201Tl at this facility was 8/15/06. All sealed sources were transferred to the new site address on May 29, 2007 by Raffi K Krikorian, M.D.

3844 So. Lindbergh

3145257161



PARTIAL PLAN - NUCLEAR CAMERA

 $\frac{1}{4}'' = 1'-0''$

4.14.03



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

TELEFAX TRANSMITTAL

DATE: August 8, 2007 NUMBER OF PAGES: 2
(including this page)

SEND TO: Callie Pratt (NC Systems, Inc.)

LOCATION: Regarding Comprehensive Cardiovascular Consultants (NRC License 24-32459-01) St. Louis, Missouri- Close Out Survey for the "old" facility located at 3844 South Lindbergh, Blvd., Suite 250, St. Louis, Missouri.

FAX NUMBER: (303) 541-0066 ☒ **VERIFY BY CALLING
SENDER**

FROM:
(SENDER) **Bill Reichhold**

TELEPHONE NUMBER (630) 829-9839 FAX NUMBER (630) 515-1078

If you do not receive the complete fax transmittal, please contact the sender as soon as possible at the telephone number provided above.

MESSAGE

Please see accompanying documents.

NOTICE

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, or exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately by telephone and return the original to the above address, by U.S. Mail. Thank you.

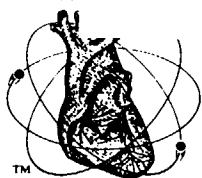
The following additional information is needed to review your request.

1. Please submit a history of radionuclides used or stored at your "old" facility located at 3844 South Lindbergh, Blvd., Suite 250, St. Louis, Missouri. For example, unsealed radioactive materials technetium-99m pertechnetate, iodine-131 sodium iodide, sealed sources cesium-137, 200 microcuries and barium-133, 100 microcuries, for dose calibrator calibration, etc. -CHR.
2. Please submit a copy of the leak test results that were current at the time of the close-out survey for the sealed sources used or stored at your "old" facility located at 3844 South Lindbergh, Blvd., Suite 250, St. Louis, Missouri. Also, please submit a history of leaking sealed sources. If there was no history of leaking sealed sources, please state so.
3. Please submit a sketch of the "old" facility located at 3844 South Lindbergh, Blvd., Suite 250, St. Louis, Missouri, with the G-M survey and wipe test results keyed to specific locations on the sketch.
4. Please submit the name and model number of the instrument used to perform the analysis of the wipe tests.

Please send a facsimile of your response to the above within 7 days and refer to control 316317. Please call me at 630-829-9839 if you have any questions.

From the desk of:

Bill Raichhold
Bill Raichhold



NCS

**NUCLEAR CARDIOLOGY SYSTEMS
5660 AIRPORT BLVD., SUITE 101
BOULDER, CO 80301**



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