



INME

Institute For Nuclear Medical Education, Inc.

5860 Airport Blvd., Suite 101, Boulder, Colorado 80301

Phone: (800) 548-4024 • (303) 541-0044 • FAX: (303) 541-0066

☒ Standard ☐ Urgent

Total Pages: _____

Stamp Date, Time and Sender in This Area

From: Sandra Nissen

To: Bill Reichhold

Date: 8/9/07

FAX Phone: 630.515.1078

Phone: 630.829.9839

Location: Lisle, IL

Reference: Close-Out Survey

Hello Bill,

Attached please find response to your request for additional information related to the close-out of the Comprehensive Cardiovascular Consultants facility (NRC License 24-32459-01) located at 3844 South Lindbergh Blvd, Suite 250, St. Louis, MO.

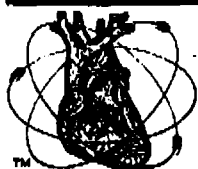
Please let me know if you need additional information.

Thank you.

Sender _____

1077INME FAX OFFICE

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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 Attachment 2-b shows additional leak test results performed Oct. 01, 2003, as the only other historical reference data.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.

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: <u>Co⁵⁷</u>	Model #: _____	Serial #: <u>970-95-11</u>
Assay Date: <u>8-1-03</u>	Original Assay Activity: <u>5.598 mCi</u>	
Current Activity: <u>4.88 mCi</u>		
Nuclide: <u>Cs¹³⁷</u>	Model #: _____	Serial #: <u>986-47-8</u>
Assay Date: <u>8-1-03</u>	Original Assay Activity: <u>195.7 uCi</u>	
Current Activity: <u>195 uCi</u>		
Nuclide: <u>Ba¹³³</u>	Model #: _____	Serial #: <u>988-69-2</u>
Assay Date: <u>9-10-03</u>	Original Assay Activity: <u>262 uCi</u>	
Current Activity: <u>262 uCi</u>		
Nuclide: <u>Co⁵⁷</u>	Model #: <u>NE5391</u>	Serial #: <u>1009-023</u>
Assay Date: <u>9-1-03</u>	Original Assay Activity: <u>5 mCi</u>	
Current Activity: <u>4.65 mCi</u>		
Nuclide: _____	Model #: _____	Serial #: _____
Assay Date: _____	Original Assay Activity: _____	
Current Activity: _____		

RSO Signature: _____

P.03

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>988-47-8</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>
μCi	<u>8.444e-05</u>	<u>1.919e-05</u>	<u>-1.535e-05</u>	<u>-7.185e-06</u>
LLD				
μCi	<u>2.355e-05</u>	<u>2.355e-05</u>	<u>2.886e-05</u>	<u>1.487e-05</u>
Analysis				
<0.005μCi	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
>0.005μCi				

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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Sealed Source Leak Test & Inv-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>Co-57</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>4.530 mCi</u>	<u>194.9 uCi</u>	<u>281.0 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>
uCi	<u>0.00205</u>	<u>0.00041</u>	<u>-0.0009525</u>	<u>-0.007897</u>

LLD

uCi	<u>0.002708</u>	<u>0.002708</u>	<u>0.001738</u>	<u>0.003628</u>
-----	-----------------	-----------------	-----------------	-----------------

Analysis

<0.005uCi	<u>x</u>	<u>x</u>	<u>x</u>	<u>x</u>
>0.005uCi	_____	_____	_____	_____

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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SealedSourceLeakTestInvd-02

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/hr

Surveys and Wipe locations:

Survey reading*

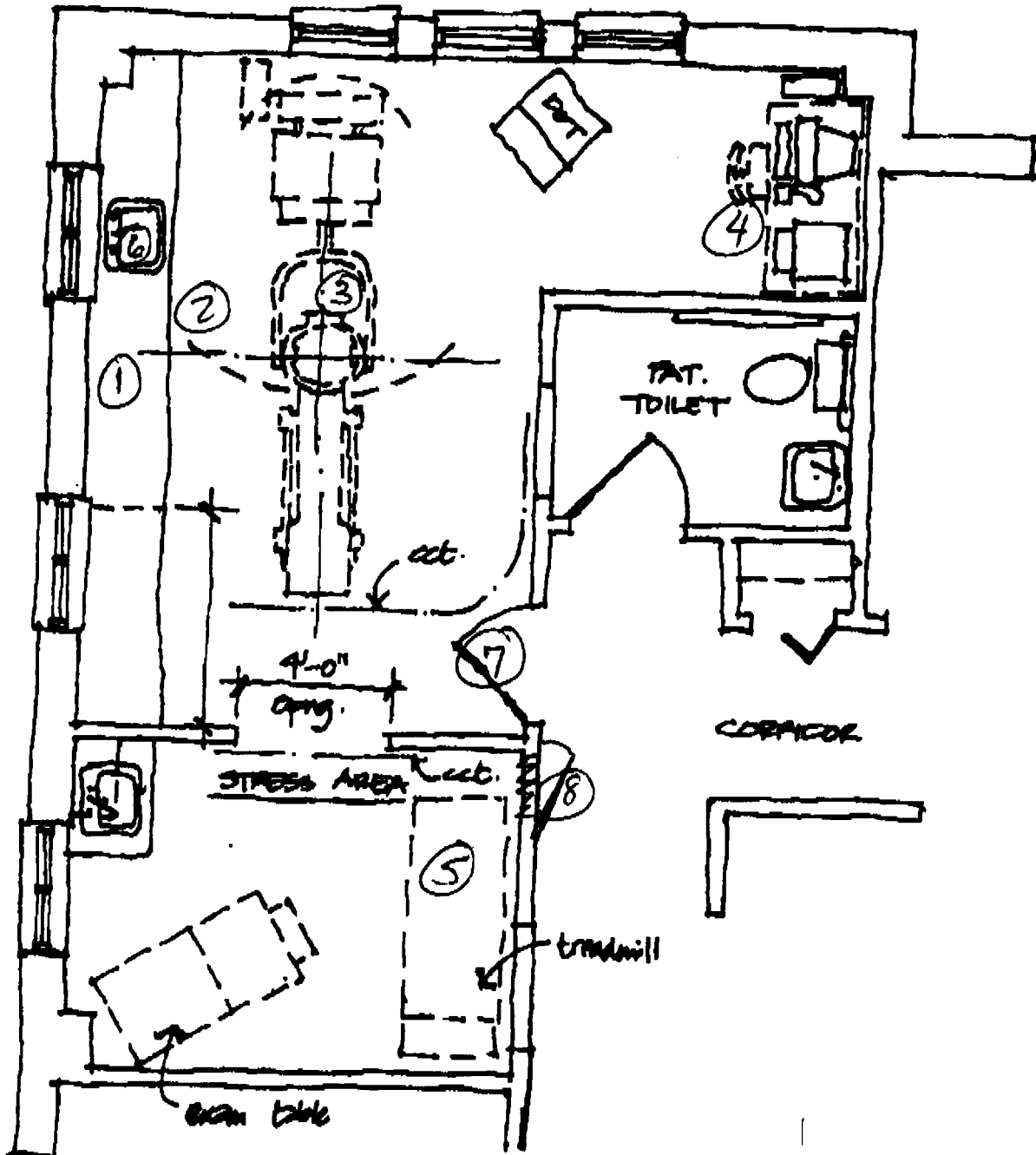
1 Hot Lab Counter	0.02 mR/hr
2 Hot Lab Floor	0.02 mR/hr
3 Camera Area	0.02 mR/hr
4 Computer Area	0.02 mR/hr
5 Treadmill Area	0.02 mR/hr
6 Hot Lab Sink	0.02 mR/hr
7 Imaging Room Door	0.02 mR/hr
8 Stress Lab Door	0.02 mR/hr

**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.

3145257161



PARTIAL PAN - NUCLEAR CAMERA



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) **Bliff 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.


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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 Reichhold