



SHORES DIAGNOSTIC CENTER
St. John Hospital & Medical Center

20225 E. 9 Mile Road
Suite A2
St. Clair Shores MI 48080
586-775-4711
586-775-4050 fax

January 6, 2012

United States Nuclear Regulatory Commission
Region III, Materials Licensing Section
2443 Warrenville Road, Ste. 210
Lisle, IL 60532

Amendment to materials License No. 21-32409-01

Dear Madam or Sir:

We wish to provide the following information, in an effort to close-out an address or area of use under our Materials License.

- A close-out survey and wipe test was performed on January 5, 2012 and the data is enclosed for your review.
- A map of the area(s) noted above keyed to the survey and wipe test data.
- The last date of receipt and use of byproduct materials was December 29, 2011.
- The following radionuclide(s) **tc99m** were used at this facility.
- All residual byproduct material to include waste was fully decayed in storage and disposed, returned to supplier or transferred to an authorized user.
- All sealed sources were transferred to an authorized user or returned to supplier.
- A current copy of the sealed source leak test results for the sealed sources used at our facility are enclosed for your review.

This facility is exempt from decommissioning due to low volumes and short physical half-lives of materials used.

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.

Sincerely,

Phil Hunsberger, CAO

CLOSE-OUT SURVEY



SHORES DIAGNOSTIC CENTER
20225 E. 9MILLERd SUITE A-2
Address of Close-out Survey Performed: ST. CLAIR SHORES, MI 48082

License Number: 21-32409-01

Date Performed: 1-5-2012

Performed By: CHRISTOPHER OWEN, M.S., CMMT

Wipe tests analyzed with CRC-15W with a 140 keV window.
Efficiency for Cobalt-57 is 1.2 dpm/cpm. MDA is 102.0 dpm.

Survey performed with ExoLum survey meter model 14C with end window probe
S/N PR 193218 calibrated on 5-3-2011 with a check source reading of 9 mR/hr
mR/hr. Range used was 0.1 mR/hr.

All sealed radioactive sources were TRANSFERED TO ST. JOHN HOSPITAL & MEDICAL CENTER

Visual Check

The area was checked to ensure that all radioactive waste had been removed. No radioactive material was located.

Radiation Level Survey

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

CLOSE-OUT SURVEY



Removable Contamination

1 minute counts of a wipe sample covering at least a 100 square centimeter area

Background: 166, _____, _____

Average: _____ dpm

Area	Result	Area	Result
1	dpm	22	dpm
2		23	
3		24	
4		25	
5		26	
6		27	
7		28	
8		29	
9		30	
10		31	
11		32	
12		33	
13		34	
14		35	
15		36	
16		37	
17		38	
18		39	
19		40	
20		41	
21		42	

SEE ATTACHED SURVEY
AND AREA MAP.

Highest dpm = 30.0

~~Maximum removable contamination:~~

$$= \frac{\text{cpm}/100 \text{ cm}^2 \times \text{dpm}/\text{cpm}}{\text{net dpm}/100 \text{ cm}^2}$$

Conclusion

As of 1-5-2012 all radioactive materials were removed from the site and no removable contamination was present.

1-5-2012

Close Out Survey, Shores Diagnostic Center

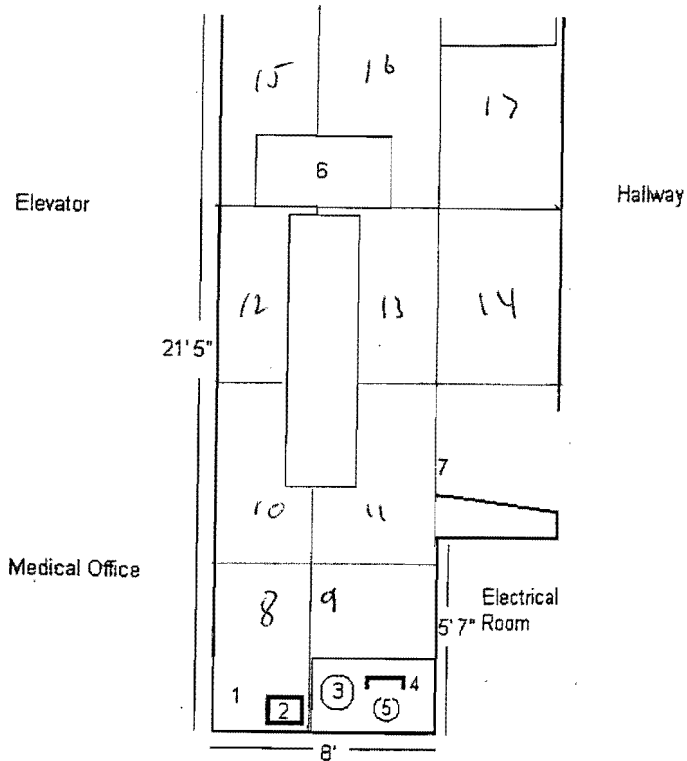
Bkg - 166 cpm

Nuclear Medicine Dept.

Areas: Cpm	Dpm	Areas: Cpm	Dpm
1. 147	0	10. 183	20.4
2. 158	0	11. 149	0
3. 175	10.8	12. 176	12
4. 188	26.4	13. 154	0
5. 158	0	14. 138	0
6. 160	0	15. 165	0
7. 167	1.2	16. 146	0
8. 151	0	17. 173	8.4
9. 155	0		

Cardiac Stress Lab

Areas: Cpm	Dpm
1. 178	14.1
2. 180	16.8
3. 156	0
4. 149	0
5. 166	0
6. 185	22.8
7. 191	30
8. 169	3.6
9. 140	0



Medical Office

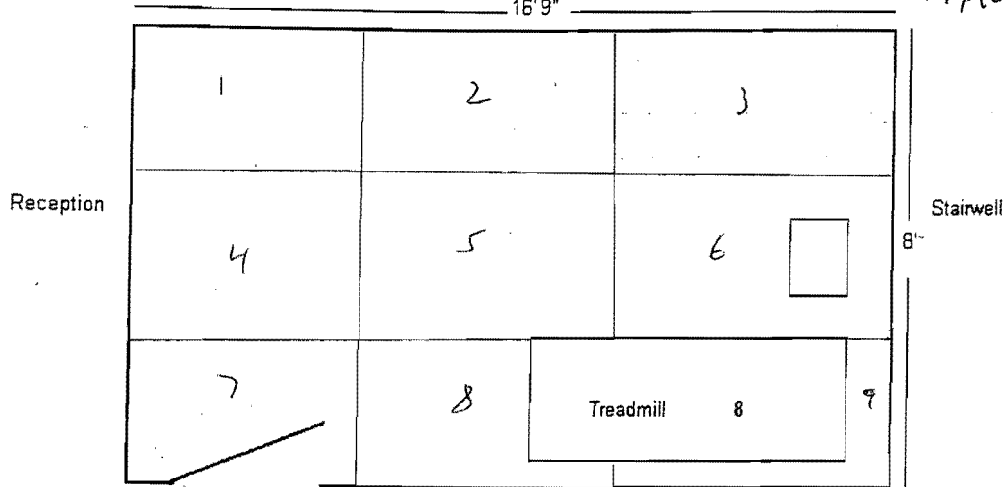
- 1. Package Receipt Area
- 2. Leaded Waste/Sealed Source Storage
- 3. Hand Sink
- 4. Lead Glass Face Shield

- 5. Dose Calibrator
- 6. Camera
- 7. Lockable Door
- 8. Floor
- 9. Floor
- 10. Floor
- 11. Floor

- 12 Floor
- 13 Floor
- 14 Floor
- 15 Floor
- 16 Floor
- 17 Floor

Outside Wall

16'9"



Reception

Stairwell

8'

- 1 Floor
- 2 Floor
- 3 Floor
- 4 Floor
- 5 Floor
- 6 Floor
- 7 Floor
- 8 + Treadmill
- 9 Floor

Hallway

Ultrasound

STRESS LAB

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submittal is used by NRC as part of the basis for its determination that the facility is released for unrestricted use. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0028), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

CERTIFICATE OF DISPOSITION OF MATERIALS

LICENSEE NAME AND ADDRESS

SHORES DIAGNOSTIC CENTER
20225 E. 9 Mile Rd Suite A-2
St. Clair Shores, MI 48080

LICENSE NUMBER

21-32409-01

DOCKET NUMBER

—

LICENSE EXPIRATION DATE

August 31, 2012

A. LICENSE STATUS (Check the appropriate box)

- This license has expired. This license has not yet expired; please terminate it.

B. DISPOSAL OF RADIOACTIVE MATERIAL

(Check the appropriate boxes and complete as necessary. If additional space is needed, provide attachments)

The licensee, or any individual executing this certificate on behalf of the licensee, certifies that:

1. No radioactive materials have ever been procured or possessed by the licensee under this license.
2. All activities authorized by this license have ceased, and all radioactive materials procured and/or possessed by the licensee under this license number cited above have been disposed of in the following manner:
- a. Transfer of radioactive materials to the licensee listed below:
- St. John Hospital & Medical Center
22101 Moross Rd
Detroit, MI 48236
Lic # 21-03210-01
- b. Disposal of radioactive materials:
1. Directly by the licensee:
2. By licensed disposal site:
3. By waste contractor:
- c. All radioactive materials have been removed such that any remaining residual radioactivity is within the limits of 10 CFR Part 20, Subpart E, and is ALARA.

C. SURVEYS PERFORMED AND REPORTED

1. A radiation survey was conducted by the licensee. The survey confirms:
- a. the absence of licensed radioactive materials
- b. that any remaining residual radioactivity is within the limits of 10 CFR 20, Subpart E, and is ALARA.
2. A copy of the radiation survey results:
- a. is attached; or b. is not attached (Provide explanation); or c. was forwarded to NRC on: _____ Date
3. A radiation survey is not required as only sealed sources were ever possessed under this license, and
- a. The results of the latest leak test are attached; and/or b. No leaking sources have ever been identified.

The person to be contacted regarding the information provided on this form:

NAME LAURA Smith	TITLE MEDICAL PHYSICIST	TELEPHONE (Include Area Code) 586-215-5947	E-MAIL ADDRESS LAURA.Smith@stjohn.org
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Mail all future correspondence regarding this license to:
St. John Hospital & Medical Center

C. CERTIFYING OFFICIAL
I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE PHIL HUNSBERGER, CAO	SIGNATURE <i>Phil Hunsberger</i>	DATE 11/1/12
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WARNING: FALSE STATEMENTS IN THIS CERTIFICATE MAY BE SUBJECT TO CIVIL AND/OR CRIMINAL PENALTIES. NRC REGULATIONS REQUIRE THAT SUBMISSIONS TO THE NRC BE COMPLETE AND ACCURATE IN ALL MATERIAL RESPECT. 18 U.S.C. SECTION 1001 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.



Radiation Safety Office
 22101 Moross Road
 Detroit, MI
 48236-2172
 313.343.7719

January 15, 2012

Shores Diagnostic Center
 20225 E 9 Mile Rd
 St Clair Shores, MI 48080

RE: Transfer of Sealed Sources

I was contacted by the nuclear medicine technologist for Shores Diagnostic Center a St. John MRG affiliate. He informed me the location was permanently closing and he was not sure what to do with the sources – and requested if could take them into our permanent storage. Since there were no other options, I discussed it with St. John Moross' radiology management and we agreed to take the sources. We removed the sealed sources for St. John Shores Diagnostic Center, 20229 E. 9 Mile Rd, Ste A2 St Clair Shores, MI 48080 and placed them into our long term storage – License NRC #21-03210-01 St. John Hospital, 22101 Moross, Detroit, MI 48236.

We did not perform the decommission as this location contracts with a MPC, Inc a local physics group.

We were told during our visit there were never any leaking sealed sources for this location. Sealed sources were inventoried by the most recent MPC physics report, all sources were accounted for, leak tested, and then transferred to our long term storage facility at the address noted above for license #21-03210-01. Sealed sources were accounted for after the transfer and re-leak tested, none were leaking.

Previous to transport the sealed sources were wiped and were counted in a well well for 1 minute each. The MPC physics measured efficiency = Co57 = 1.16dpm/cpm. Cs137 = 12.07dpm/cpm. The sources noted were leak tested and were found to have less than 0.005 microCi removable contaminations.

Sources Transferred from Shores Diagnostic

Nuclide	Type	Activity	Date	Location	MN	SN
Ba133	Vial	264.7 uCi	9/1/2002	HotLab		935-73-9
Cs137	Vial	210.1 uCi	9/1/2002	HotLab		934-37-22
Cs137	Rod	0.5 uCi	9/1/2002	Hot lab		935-68-9
Co-57	Flood	15 mCi	12/1/2009	Img Room		1402-008

After transport to license #21-03210-01 the sources were inventoried, and all were accounted for, then they were leak tested. The well has total efficiency of 35.24%. The sources noted on the attached inventory were leak tested and were found to have less than 0.005 microCi removable contaminations.

Sources from Shores Diagnostic now Added to license #21-03210-01 – St. John Hospital

Nuclide	Type	Activity	Date	Location	MN	SN
Ba133	Vial	264.7 uCi	9/1/2002	HotLab		935-73-9
Cs137	Vial	210.1 uCi	9/1/2002	HotLab		934-37-22
Cs137	Rod	0.5 uCi	9/1/2002	Hot lab		935-68-9
Co-57	Flood	15 mCi	12/1/2009	Img Room		1402-008

If there are any further questions please contact me Laura T. Smith, MS, DABR at laura.smith7@stjohn.org.

Sincerely

Laura T. Smith, MS, DABR
 RPS consulting physicist and,
 St. John Hospital RSO
 #21-03210-01

LALA
-LIVONIA

Previous to Transfer MPC

MEDICAL PHYSICS
CONSULTANTS, INC.

Sealed Source Inventory

Licensee: St. John Hlth - Medical Resources Group

Date: 10/06/11

Performed by: Laura Luna

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Cs-137	Button	1 uCi	05/02/07	Meter		1017
Current Activity: 0.903 uCi						
X Ba-133	Vial	X 264.7 uCi	09/01/02	Hot Lab		935-73-9
Current Activity: 147.13 uCi						
X Cs-137	Vial	X 210.1 uCi	09/01/02	Hot Lab		934-37-22
Current Activity: 170.26 uCi						
X Cs-137	Rod	X 0.5 uCi	09/01/02			935-68-9
Current Activity: 0.405 uCi						
Cs-137	Button	1 uCi	05/02/07	Meter		1017
Current Activity: 0.903 uCi						
X Co-57	Flood	X 15 mCi	12/01/09	Imaging	NES-8430	1402-008
Current Activity: 2.675 mCi						

→ exempted sources
attached to meter
not required
on inventory.
meters left
@ site.

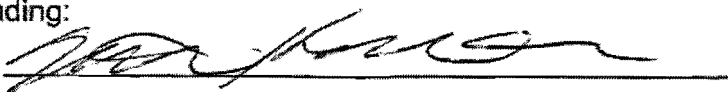
efficiency of well =
Co-57 = 1.16 dcpm/cpm
Cs-137 = 1207 dcpm/cpm
Shore Diagnostic Center
230329 E 9, this
St CS, 45080

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading:

RADIATION SAFETY OFFICER:



The World

FedEx
TRK# 8742 1674 6168

FRI - 20 JAN A1
STANDARD OVERNIGHT

NT BDEA RECEIVED JAN 20 2012 60532
IL-US
ORD



Emp# 568374 19JAN12 UTZA 50FC1/61C1/F8F4

28 FedEx US Airbill
Express

FedEx Tracking Number 8742 1674 6168

1 From This portion can be removed for Recipient's records.

Date 1/19/12 FedEx Tracking Number 874216746168

Sender's Name Phil Hunsberger Phone 508-236-6431

Company HLBOB/CORNER STONE HLTH SVCS

Address 43750 GARFIELD RD STE 104

City CLINTON TOWNSHIP State MI ZIP 48068-1149

2 Your Internal Billing Reference

3 To Recipient's Name

Company United States Aircraft Supply Company

Address 10000 N. Industrial Blvd

Address 3013 Newville Road Ste 20

City Lapeer State MI ZIP 49752

Recipient's Copy

4a Express Package Service

FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

FedEx First Overnight
Earliest next business morning delivery to select locations.*

FedEx 2Day
Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

4b Express Freight Service

FedEx 1Day Freight
Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 2Day Freight
Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 3Day Freight
Third business day.** Saturday Delivery NOT available.

5 Packaging

FedEx Envelope*

FedEx Pak*
Includes FedEx Small Pak and FedEx Large Pak.

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.

No Signature Required
Package may be left without obtaining a signature for delivery.

Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies. Residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?
One box must be checked.

No Yes
Yes: See attached Shipper's Declaration.

Dry Ice
Dry Ice, 9, UN 1845

Cargo Aircraft Only

7 Payment Bill to:

Sender Recipient Third Party Credit Card Cash/Check

Total Packages Total Weight Credit Card Auth.

605

1/19/12

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339



8742 1674 6168

Align bottom of Airbill Patch or Peel and Stick Airbill

Align top of FedEx Shipping Label or ASTRA Label Here.