



Michigan CardioVascular
Institute

1015 S. Washington Ave.
Saginaw, MI 48601

Toll-free: 1-877-725-MCVI (6284)

Phone: (989) 754-3000
Fax: (989) 754-3002

April 13, 2011

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

RE: Amendment to NRC License No. 21-26447-01

Dear Sir/Madam:

The purpose of this letter is to remove a location of use from our current NRC license. We would like to request concurrent processing of this license amendment with an amendment to add this facility as an additional location of use to Bay Regional Medical Center's current NRC license 21-18585-01. The reason for this request is to prevent any disruption of clinical practice or patient care.

Please note that the amendment to add this facility to Bay Regional Medical Center's NRC license was received by the NRC on 03/28/11. The assigned control number is 574804. Please find the enclosed information pertaining to both transactions.

Item #1

Please remove the following location of use from our NRC license:

**315 East Warwick Drive
Alma, Michigan 48801**

Bay Regional Medical Center will continue providing nuclear medicine services utilizing the current areas of use at the above address pending the NRC's approval to add this site to their current license. All equipment and radioactive material including the sealed sources will remain at the above location of use and will be transferred to Bay Regional Medical Center's current NRC license 21-18585-01.

A current copy of the leak test results for the sealed sources used at our facility is enclosed for your review. 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, Sharon Updike at 734-662-3197.

Respectfully Yours,

Bill Hardimon, CEO
Michigan Cardiovascular Institute

RECEIVED APR 15 2011

**Sealed Source Leak Test**Licensee: Michigan Cardiovascular Inst. (Alma)Date: 02/17/11Performed by: Sharon Updike

Nuclide	Type	Calibration	Calibration	Location	M/N	S/N
		Activity	Date			
Cs-137	vial	194.7 uCi	01/01/07	Hot Lab		1140-79-20
		Current Activity: 176.98 uCi				
Ba-133	vial	247.5 uCi	01/01/07	Hot Lab		1218-21-12
		Current Activity: 189.58 uCi				
Co-57	Flood	15 mCi	11/10/10	Hot lab	NES8515	1470-117
		Current Activity: 11.644 mCi				

Comment: The sources listed above were leak tested using a dry wipe technique and were found to have less than 0.005 uCi removable activity. The following Minimum Detectable Activities are based upon a background at the indicated value. Background was at or below these levels when the above tests were completed.

Well Counter: Captus 3000

Nuclide	MDA	Background
Cs-137	2.0×10^{-4} uCi	145 counts/1 min
Ba-133	8.8×10^{-5} uCi	204 counts/1 min
Co-57	1.7×10^{-5} uCi	53 counts/1 min

RADIATION SAFETY OFFICER: _____

CERTIFICATE OF DISPOSITION OF MATERIALS

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 Records and FOIA/Privacy Services Branch (T-5 F52), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollects@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.

LICENSEE NAME AND ADDRESS

Michigan Cardiovascular Institute
1015 S. Washington Ave.
Saginaw, MI 48601

LICENSE NUMBER

21-26447-01

DOCKET NUMBER

030-32923

LICENSE EXPIRATION DATE

04/30/2013

- ☐ This license has expired. ☐ **A. LICENSE STATUS (Check the appropriate box)**
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:
- Radioactive materials will be used at the same location under Bay Regional Medical Center, NRC license #21-18585-01
- ☐ 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	TITLE	TELEPHONE (Include Area Code)	E-MAIL ADDRESS
Tim Jackson	Director of Imaging & Diagnostics	(989) 754-3328	tjackson@mcvi

Mail all future correspondence regarding this license to:

1015 S. Washington Ave., Saginaw, MI 48601


C. CERTIFYING OFFICIAL

I CERTIFY UNDER PENALTY OF PERJURY THAT THE FOREGOING IS TRUE AND CORRECT

PRINTED NAME AND TITLE

Bill Hardimon, CEO

SIGNATURE



DATE

04/13/2011

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.

BAY
REGIONAL MEDICAL CENTER
A McLAREN HEALTH SERVICE

March 28, 2011

U.S. Nuclear Regulatory Commission
Region III
Materials Licensing Branch
2401 Warrenville Road
Suite 210
Lisle, IL 60532

Re: Amendment to 21-18585-01

Dear Madam or Sir:

We wish to amend our Materials License 21-18585-01 as follows:

ADD ADDRESS OF USE

We wish to add the following as an additional address of use for this Material's License:

315 East Warwick Drive
Alma, Michigan 48801

In support of this request we have enclosed a diagram of this facility for your review. This will be a unit dose facility for 10 CFR 35.200 usage.

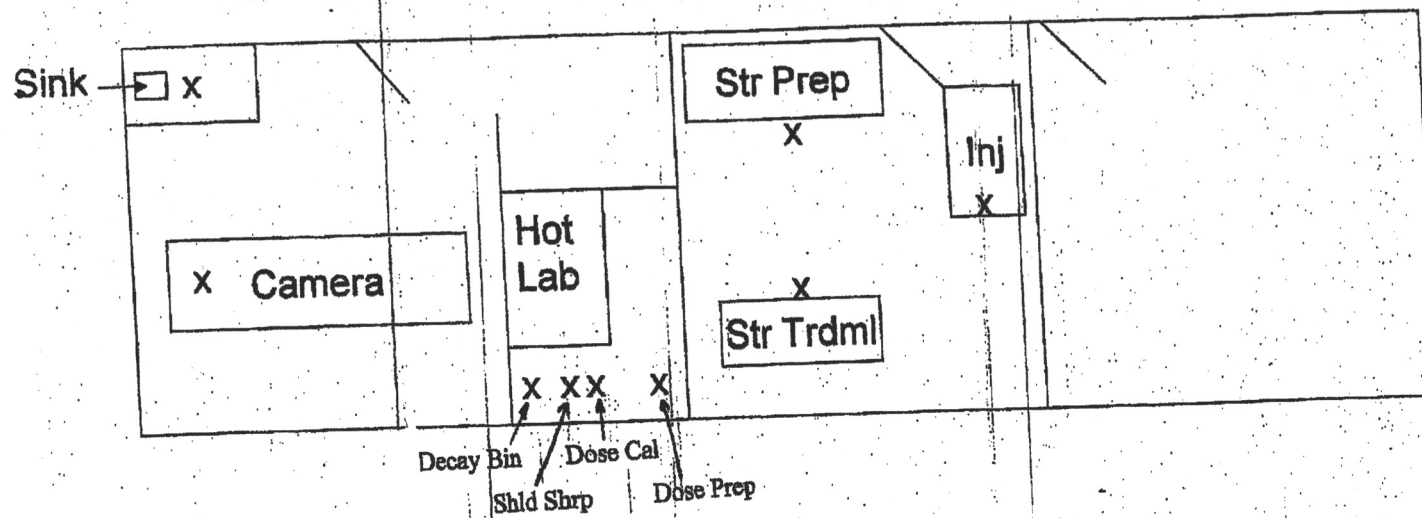
If you require any additional information, please contact our Medical Nuclear Physicist, Thomas M. Kumpuris, M.S., FACR of Medical Physics Consultants, Inc. 800-321-2207 and/or tkumpuris@mpcphysics.com.

Sincerely,



Alice Gerard, President/CEO Bay Regional Medical Center

Alma Wipe & Survey Map



Location	SURVEYS	WIPES
	Trigger Limit: mr/hr	Trigger Limit: dpm
Dose Prep	0.5 mr/hr	2000
Dose Calibrator	0.5 mr/hr	2000
Decay Bin	0.5 mr/hr	2000
Shielded Sharps	0.5 mr/hr	2000
Camera	0.1 mr/hr	500
Camera Rm Sink	0.1 mr/hr	500
Stress Rm Trdml	0.1 mr/hr	500
Stress Rm Prep	0.1 mr/hr	500
Injection Area	0.1 mr/hr	500
Wastebaskets	0.1 mr/hr	NA

From: (989) 754-3287
 Tim Jackson
 MCVI
 1015 S. Washington Avenue
 Saginaw, MI 48601

Origin ID: MBSA



J11151102250225

SHIP TO: (800) 522-3025
Sharon Updike, MHP
United States Nuclear Reg Commiss
2443 WARRENVILLE RD STE 210
REGION III, OFFICE OF MATERIALS LIC
LISLE, IL 60532

BILL SENDER

Ship Date: 14APR11
 ActWgt: 1.0 LB
 CAD: 4722360/NET3130

Delivery Address Bar Code



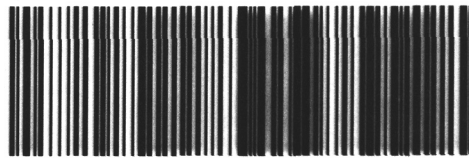
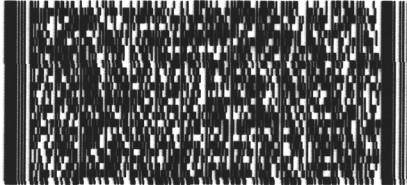
Ref # Tim Jackson to MPC
 Invoice #
 PO #
 Dept #

FRI - 15 APR A1
 PRIORITY OVERNIGHT

TRK# 7946 5028 0544
 0201

XH BDFA

60532
 IL-US
 ORD



500G326A8/7EFB

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.