

**August 22, 2017**

**UNITED STATES NUCLEAR REGULATORY COMMISSION**  
Region III, Materials Licensing Section  
2443 Warrenville Road  
Suite 210  
Lisle, IL 60532-4352

**Re: Termination of license No. 21-32378-01, MidMichigan Medical Center - Alpena**

Dear Sir/Madam:

This letter is being sent to request the termination of the MidMichigan Medical Center – Alpena license (21-32378-01). During a recent site visit by Ryan Craffey of the NRC, it was discovered that while this license was still active, the facility was no longer in operation. Investigation by MidMichigan Health revealed that prior to cessation of operation, all appropriate closeout surveys and facility diagrams were completed. These documents have been included for review.

Please note that a letter was sent to the NRC dated March 14<sup>th</sup>, 2016, requesting a transfer of control of license number 21-32378-01. In a letter dated June 14<sup>th</sup>, 2016, the Nuclear Regulatory Commission granted the aforementioned transfer of control to MidMichigan Health (21-01549-02).

Included is a completed copy of NRC Form 314. This document has been signed by Abraham Salcata, RSO of license number 21-32378-01, and certified by Victor D. Hosfeld, RSO of MidMichigan Health (controlling entity; license number 21-01549-02).

If you have any questions, please contact Victor D. Hosfeld at 989-839-1407.

Sincerely,



Victor D. Hosfeld, MS, DABR  
*Radiation Safety Officer, MidMichigan Health*  
*Chief Physicist, MidMichigan Health*

Enclosures

RECEIVED AUG 25 2017



**CERTIFICATE OF DISPOSITION  
OF MATERIALS**

Estimated burden per response to comply with this mandatory collection request: 20 minutes. This material is used by NRC as part of the basis for its determination that the facility is referred for unrestricted use. Send comments regarding burden estimate to the FOR, Privacy, and Information Collection Branch (7-6 FR), U.S. Nuclear Regulatory Commission, Washington, DC 20540-0001, or by Internet e-mail to Information-Privacy@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, HHS-0360, 5180-10828, Office of Management and Budget, Washington, DC 20503. If a person used to prepare an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not obligated to respond to, the information collection.

LICENSEE NAME AND ADDRESS

ARMC MEDICAL GROUP CARDIOLOGY ASSOCIATES  
460 LONG RAPIDS PLAZA  
ALPENA, MI 49707

LICENSE NUMBER

21-32378-01

DOCKET NUMBER

030-35958

LICENSE EXPIRATION DATE

JUNE 30, 2022

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:

SEALED SOURCES TRANSFERRED TO LICENSEE NO. 21-27754-01

- b. Disposal of radioactive materials:

1. Directly by the licensee:

WASTE DECAYED TO BACKGROUND,  
CLOSE OUT SURVEY ATTACHED

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.

AUG 08 2016

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 <i>Victor D. Hosfeld</i>	TITLE R50	TELEPHONE (include Area Code) 989-356-0141	E-MAIL ADDRESS ABRAHAM.SALCATA@MICHIGAN.GOV
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Mail all future correspondence regarding this license to:

4000 WELLNESS DRIVE  
VICTOR D. HOSFELD, CHIEF PHYSICIST R50 MIDLAND, MI 48670

C. CERTIFYING OFFICIAL

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

PRINTED NAME AND TITLE VICTOR D. HOSFELD CHIEF PHYSICIST R50	SIGNATURE <i>[Signature]</i>	DATE 08/22/2017
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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.

**Radiological Physics Service, Inc.**

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**CLOSE OUT SURVEY**

**ARMC Medical Group Cardiology Associates  
460 Long Rapids Plaza  
Alpena, MI 49707**

**License: 21-32378-01**

**RE: Close out survey of the old nuclear medicine department.**

1. **Date of Survey: July 26, 2016**
2. **Diagram of the department and the wipe test results are attached.**
3. **The survey meter readings were less than 0.02 mR/hr for all areas.**
4. **The survey meter background reading was 0.02 mR/hr.**
5. **The survey meter used was a Ludlum model 14C (S/N 185142) with an end window GM probe. It was last calibrated 2/2/2016.**
6. **The wipe tests were assayed on an Atom Lab 950 well counter. The minimum detectable activity for Tc-99m is 19.6 dpm at 95% confidence.**
7. **The survey was performed by Ray A. Carlson, M.S.**
8. **The sealed sources moved to Mid Michigan Medical Center - Alpena (NRC license no. 21-27754-01) which is the owner of the clinic.**

**All wipe tests were below the 2000 dpm limit and all GM survey meter readings were at background (0.02mR/hr).**

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**Radiological Physics Service, Inc.**

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**Wipe Test Results**

**ARMC Medical Group Cardiology Associates  
460 Long Rapids Plaza  
Alpena, MI 49707**


**License: 21-32378-01**

**RE: Close out survey of location**

**Date: July 26, 2016**

Area	CPM	Net CPM	DPM
Background	210		
1	205	0	0
2	205	0	0
3	205	0	0
4	205	0	0
5	205	0	0
6	205	0	0
7	205	0	0
8	205	0	0
9	205	0	0
10	205	0	0

- All wipes were below the 2000 DPM limit.
- All wipe areas were surveyed with a GM survey meter and all areas recorded less than 0.02 mR/hr. Wipes were then analyzed in a gamma counter.

  
**Ray A. Carlson, MS,  
Medical Physicist  
Radiological Physics Service**

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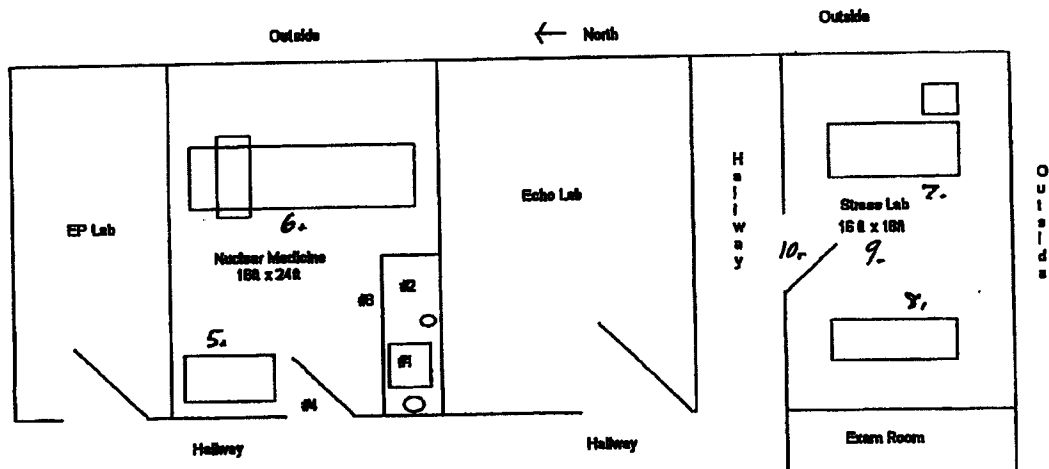
# FACILITIES AND EQUIPMENT Security-Related Information – Withhold Under 10CFR2.390

## FACILITY DIAGRAM

8.16 Item 9

Great Lakes Heart Center of Alpena  
460 Long Rapids Plaza  
Alpena, MI 49707

### Nuclear Medicine Department



1. Dose Prep Area
2. Waste Storage
3. Package Receipt and Return
4. Lockable Department Door

- Please note the direction north and room dimensions listed on the enclosed area diagram.
- There no room numbers.
- The door to the Nuclear Medicine/Hot Lab will be under lock and / or key. Only nuclear medicine technologists and the RSO will have access to the keys to the Nuclear Medicine department.
- The facility is on grade and a single story building.
- The area above the facility is the roof.

Location: ARMC Medical Group - Cardiology Associates

Date of Inspection: May 10, 2016

SEALED SOURCE INVENTORY

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfr.	M/N	S/N
Cs-137	Vial	Hot Lab	213.7 uCi	08/01/02	IPL	RV-137-200U	934-25-2
Ba-133	Vial	Hot Lab	283.9 uCi	08/01/02	IPL	RV-133-250U	934-24-7
Cs-137	Rod	Hot Lab	0.5 uCi	06/01/02	IPL		85147
Co-57	Flood	Hot Lab	10 mCi	01/01/16	E & Z	PF24R-057-10M	1862-133

RSO: *Archie J. [Signature]*

SEALED SOURCE LEAK TEST

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfr.	M/N	S/N
Cs-137	Vial	Hot Lab	213.7 uCi	08/01/02	IPL	RV-137-200U	934-25-2
Ba-133	Vial	Hot Lab	283.9 uCi	08/01/02	IPL	RV-133-250U	934-24-7
Co-57	Flood	Hot Lab	10 mCi	01/01/16	E & Z	PF24R-057-10M	1862-133

COMMENT: *The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.*

TESTED BY: Ray A. Carlson, M.S.

DATE: May 10, 2016

RSO: *Archie J. [Signature]*

Location: Mid Michigan Medical Center - Alpena

Date of Inspection: July 26, 2016

## SEALED SOURCE INVENTORY

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	198 uCi	10/26/77	NEN	NBS-356	319-108-35
Ba-133	vial	Hot Lab	270.3 uCi	08/01/10	IPL	RV-133-250U	1461.4-20
Cs-137	rod	Hot Lab	0.2 uCi	04/01/75	Searle	100-184642	A917A
Cs-137	spot	Hot Lab	10 uCi		Nuc. Assoc.		
Cs-137	spot	Hot Lab	10 uCi	02/01/00	IPL	644-69	
Co-57	flood	Hot Lab	15 mCi	11/21/14	Rad Qual	BM01L-15	BM01L1514 29532
Cs-137	vial	Hot Lab	213.7 uCi	08/01/02	IPL	RV-137-200U	934-25-2
Ba-133	vial	Hot Lab	283.9 uCi	08/01/02	IPL	RV-133-250U	934-24-7
Cs-137	rod	Hot Lab	0.5 uCi	06/01/02	IPL		85147
Co-57	flood	Hot Lab	10 mCi	01/01/16	Eckert & Ziegler	PF24R-057-10M	1862-133

RSO: 

## SEALED SOURCE LEAK TEST

Nuclide	Type	Location	Calibration Activity	Calibration Date	Mfgr.	M/N	S/N
Cs-137	vial	Hot Lab	198 uCi	10/26/77	NEN	NBS-356	319-108-35
Ba-133	vial	Hot Lab	270.3 uCi	08/01/10	IPL	RV-133-250U	1461.4-20
Co-57	flood	Hot Lab	15 mCi	11/21/14	Rad Qual	BM01L-15	BM01L1514 29532
Cs-137	vial	Hot Lab	213.7 uCi	08/01/02	IPL	RV-137-200U	934-25-2
Ba-133	vial	Hot Lab	283.9 uCi	08/01/02	IPL	RV-133-250U	934-24-7
Co-57	flood	Hot Lab	10 mCi	01/01/16	Eckert & Ziegler	PF24R-057-10M	1862-133

COMMENT: The sources listed above were leak tested using a wipe technique and were found to have less than 0.005 uCi removable activity.

TESTED BY: Ray A. Carlson, M.S.DATE: July 26, 2016RSO: 

# FedEx Express

**earth smart**  
FedEx carbon-neutral  
envelope shipping

Align top of FedEx Express® shipping label here.

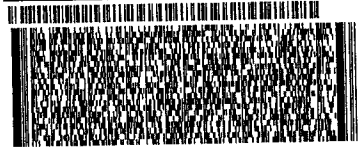
ORIGIN ID: MBSA (889) 839-3825  
MICHIGAN HEALTH  
VICTOR ROSEFIELD RADIATION ONCOLOGY  
4000 WELLNESS DRIVE  
MIDLAND, MI 48678  
UNITED STATES US

SHIP DATE: 24AUG17  
ACTWGT: 0.50 LB  
CAD: 8348111/ANET3920

BILL SENDER

TO US NUCLEAR REGULATORY COMMISSION  
REGION III, MATERIALS LICENSING SEC  
2443 WARRENVILLE ROAD  
SUITE 210  
LISLE IL 60532

(000) 000-0000 REF: 10400  
INV: DEPT:  
PC:



RT 797  
FZ  
1 10:30  
D 7350  
08/23

FRJ - 25 AUG 10:30A  
PRIORITY OVERNIGHT

TRK# 7701 0306 7350  
0201

**XH ENLA** 60532  
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