

Michigan Mobile PET-CT Imaging, LLC
861 Downhill Lane
Rochester Hills MI, 48370

Termination

June 30, 2011

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

Attention: Sara Forster

RE: Termination of NRC License and Close-out Survey Results

NRC License Number:

Dear Ms. Forster:

Item #1: We wish to terminate our NRC license # 21-32790-01. We have enclosed a NRC Form 314 for your review.

Item #2: Please find the attached documents:

- Closeout Survey
- Sealed Source Leak Test
- Sealed Source Inventory
- Survey Meter Calibration Certificate
- Alliance Health Care NRC License
- Facility Diagram of Trailer

Please note the following:

- A close-out survey and wipe test was performed on June 27, 2011. 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 use of byproduct material was June 27, 2011.
- The following radionuclide(s) (Sealed) Ge-68 and Co-57 and Unsealed F-18 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.
- 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.

RECEIVED JUL 01 2011

If you have any questions, please contact our physicist James M. Botti, MS by phone at (734) 662-3197 or by email at jbotti@mpcphysics.com.

Respectfully Yours,

A handwritten signature in cursive script that reads "Mary Martin".

Mary Martin (Modify as Needed)
Executive Management

Enclosures

NRC FORM 314
(12-2010)
10 CFR 30.36(j)(1), 40.42(j)(1),
70.38(j)(1), and 72.54(k)(5)(1)(i)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0028

EXPIRES: 10/31/2013

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 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.

LICENSEE NAME AND ADDRESS
Michigan Mobile PET-CT Imaging, LLC
861 Downhill Lane
Rochester Hills MI, 48370

LICENSE NUMBER DOCKET NUMBER
21-32790-01
LICENSE EXPIRATION DATE
05/31/2020

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:
Alliance Health Care Service Inc. 47-25570-01
 - b. Disposal of radioactive materials:
 1. Directly by the licensee:
Decay in Storage.
 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 James M. Botti	TITLE RSO	TELEPHONE (Include Area Code) 810-599-8817	E-MAIL ADDRESS jbotti@mpcphysics.com
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Mail all future correspondence regarding this license to
3990 JOHN R ST., DETROIT, MI 48201

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

PRINTED NAME AND TITLE MARY MARTIN COPP V.P. RADIOLOGY	SIGNATURE <i>Mary Martin</i>	DATE 7-1-11
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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.

Close-out Survey

Date performed: June 28, 2011

Performed by: Justin Johnson, CNMT

Comments: Sealed sources and radioactive trash were removed from these areas prior to survey and wipe testing.

Instruments

Wipe tests analyzed with a Captinec CRC-15W Well Counter # 172026

Instrument: Well Counter

Radionuclide: Cs-137 MDA for Cs-137 590 dpm's
Date completed: 02/25/10 Conversion factor: 6.2 dpm/dpm

Area survey performed with the following survey meter:

Manufacturer: Ludlum
Type: GM
Model Number: 14C
Serial Number: 251798
Probe Model: Pancake
Annual Calibration Due: 05/09/12

Battery check acceptable: YES
Operational check acceptable: N/A
Constancy check acceptable: YES
Current reading: 1.25 mR/hr

Radionuclides Used

Unsealed

F-18

Sealed

Co-57 and Ge-68

Last date of byproduct radiopharmaceutical use:

June 27, 2011

Visual Check: The area was checked to ensure that all sealed sources and radioactive waste had been removed. No evidence of radioactive material was noted.

Sealed Source Leak Testing: Sealed Source Leak tests demonstrated no removable contamination.

Leaking Sources: There is no history of leaking sources at this facility.

Radiation Level Survey: No area within the department demonstrated radiation levels in excess of the background reading of 0.02 mR/hr.

Removable Contamination: No area within the department demonstrated removable contamination excess of 0 dpm's.

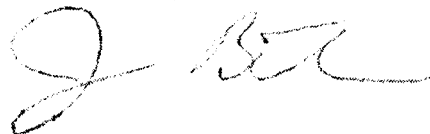
Hot Lab and Imaging Area

Background: 428 cpm's

Area	Result in dpms
#1 Dose Prep	0
#2 Waste Storage	0
#3 Package Receipt	0
#4 Injection Chair	0
#5 Hot Lab Floor	0
#6 Control Room Floor	0
#7 Control Room Counter	0
#8 Scanner Table	0
#9 Scanner Room Floor	0
#10 Frequent Touched Objects	0

Maximum removable contamination = 0 dpms

If you have any questions or require additional information, please contact me at 734-662-3197 or by email at jbotti@mpcphysics.com.



James M. Botti, MS
Radiological Physicist
Board Certified, ABR, ABMP

Enclosures



Sealed Source Leak Test

Licensee: Michigan Mobile PET-CT, LLC

Date: 04/28/11

Performed by: James Botti

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Ge-68	Cal Sour	1.49 mCi	06/01/09	Hot Lab	HEGL-0132	G2-213
		Current Activity: 0.279mCi				
Co-57	Vial	5382 uCi	03/01/08	Hot Lab	RV-057-5M	1288-17-3
		Current Activity: 281.82uCi				

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

<u>Nuclide</u>	<u>MDA</u>	<u>Background</u>
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: _____



Sealed Source Inventory

Licensee: Michigan Mobile PET-CT, LLC

Date: 04/28/11

Performed by: James Botti

Nuclide	Type	Calibration		Location	M/N	S/N
		Activity	Date			
Ge-68	Cal Sour	1.49 mCi	06/01/09	Hot Lab	HEGL-0132	G2-213
Current Activity: 0.279 mCi						
Co-57	Vial	5382 uCi	03/01/08	Hot Lab	RV-057-5M	1288-17-3
Current Activity: 281.82 uCi						

SEALED SOURCE AMBIENT EXPOSURE SURVEY

Meter:

Max Reading:

RADIATION SAFETY OFFICER: _____



Facility: Michigan Mobile PET-CT, LLC
 3711 Elmhurst
 Toledo OH 43613

Instrument: Manufacturer: Ludlum
 Type: GM
 Model #: 14C
 Serial #: 240290
 Probe Type: Pancake
 Probe Serial #: 251798

Calibration Geometry: Probe perpendicular to source, pan facing away

Calibration Source: Cs-137 calibrated on 10/1/07 (+/- 3% NBS). Exposure Rate on 10/1/07: 59.1 mR/h at 1 meter. (NRC License No. 21-20153-01)

Calibration Data:

Scale	Exposure mR/h	Reading mR/h	Exposure mR/h	Reading mR/h	Correction Factor
x0.1	0.06	0.065	0.13	0.125	1.0
x1	0.6	0.6	1.3	1.25	1.0
x10	6	6	13	13	1.0
x100	60	60	130	130	1.0
x1000	300	300	700	700	1.0

Date Received: 5/2/2011 **Date Calibrated:** 5/9/2011

Check Source Reading: 1.25 mR/h Source to pancake window, cap off.

Battery Check: Bat. Ok

High Voltage: 908 Volts

Repairs: None

Comments: All instrument readings are within +/- 10% for all scales used.
 Drift check was acceptable. Please note applicable scale correction factors in order to obtain accurate readings in mR/h.

Note: This instrument must be checked for proper operation with its dedicated check source prior to use. A reading as described above denotes proper operation.

Calibrated by:
 Ryan Dzanbazov

11967

2309 Shelby Avenue Ann Arbor, MI 48103 (734) 662-9224 Fax (734) 662-3197	✱ 70 E. 91 st Street, Suite 106 Indianapolis, IN 46240 (317) 581-1931 Fax (317) 581-1911	✱ 4806 Mile High Drive Salt Lake City, UT 84124 (801) 272-2952 Office & Fax	✱ N7175 Crystal Ridge Drive Beaver Dam, WI 53916 (920) 885-9872 Fax (920) 885-9870
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Well Counter and Uptake Probe Instrument Evaluation

Licensee: Michigan Mobile PET-CT, LLC Date: 04/28/11
Model #: Caprac Instrument ID: Hot Lab
Serial #: 172026 Installation Date: 10/01/07
Instrument: Carprac Well

FWHM evaluated and acceptable: N/A
Chi-square reproducibility evaluated and acceptable: N/A
Energy Calibration evaluated and acceptable: 04/28/11 YES
Radiation Detection Efficiency:

Radionuclide: Cs-137 MDA for Cs-137 : 590.0 dpm
Date Completed: 02/25/10 Conversion Factor: 6.2 dpm/cpm


Radionuclide: MDA for :
Date Completed: Conversion Factor:

Wipe Testing:

Generic Conversion Factor: 5.0 dpm/cpm

Surface Contamination Trigger Levels

Restricted Areas: 2000.0 dpm/100 cm²
Unrestricted Areas: 200.0 dpm/100 cm²
Package Receipt: 2000.0 dpm/300 cm²

 ALLIANCE HEALTHCARE SERVICES

June 30, 2011

Jim Botti
Radiation Safety Officer

Dear Mr. Botti,

Attached is a copy of the Alliance HealthCare Services (AHCS) Nuclear Regulatory
Commission License.

AHCS has possession and accepts the listed radioactive sealed sources.

Please let me know if you need additional information.



Michael Culley MS CNMT
Radiation Safety Officer

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

<p style="text-align: center;">Licensee</p> <p>1. Alliance Health Care Services, Inc.</p> <p>2. 330 Harper Park Drive Suite C Beckley, West Virginia 25801</p>	<p>In accordance with the letter dated July 15, 2010,</p> <p>3. License No. 47-25570-01 is amended in its entirety to read as follows:</p> <p>4. Expiration Date: July 31, 2011</p> <p>5. Docket No. 030-35774</p>
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<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Any byproduct material permitted by 10 CFR 35.200</p>	<p>7. Chemical and/or physical form</p> <p>A. Any</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. As needed</p>
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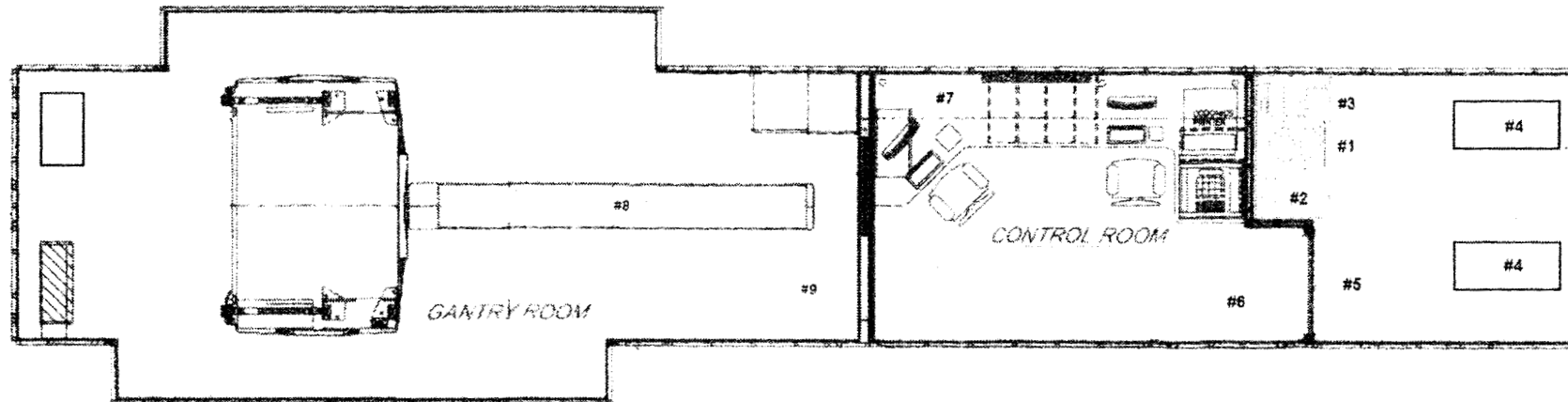
9. Authorized use:

A. Any imaging and localization study permitted by 10 CFR 35.200.

CONDITIONS

10. Licensed material may be used or stored incident to mobile nuclear medicine activities at temporary job sites of the licensee anywhere in the United States where the U. S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material, including areas of exclusive Federal jurisdiction within Agreement States.
- If the jurisdiction status of a Federal facility within an Agreement State is unknown, the licensee should contact the Federal agency controlling the job site in question to determine whether the proposed job site is an area of exclusive Federal jurisdiction. Authorization for use of radioactive materials at job sites in Agreement States not under exclusive Federal jurisdiction shall be obtained from the appropriate state regulatory agency.
11. Licensed material is only authorized for use by, or under the supervision of:
- A. Individuals permitted to work as an authorized user in accordance with 10 CFR 35.13 and 35.14.

Area Diagram for Daily Area Surveys and Weekly Wipe Testing Michigan Mobile PET-CT, LLC



- #1= DOSE PREP AREA
- #2= WASTE STORAGE AREA
- #3= RADIOACTIVE PACKAGE RECEIPT
- #4= INJECTION CHAIR
- #5= HOT LAB FLOOR

- #6= CONTROL ROOM FLOOR
- #7= CONTROL ROOM COUNTER
- #8= SCANNER TABLE
- #9= SCANNER ROOM FLOOR
- #10= FREQUENTLY TOUCHED OBJECTS

Forster, Sara

From: Cupp, Judy [JCUPP@dmc.org]
Sent: Friday, July 01, 2011 9:13 AM
To: Forster, Sara
Subject: FW: Email from DMC MFP
Attachments: document2011-07-01-095645.pdf

Importance: High

Ms. Forster...re-sending the documents referenced below. Thank you and please call me if you need any further information.

Judy Cupp
Executive Administrative Assistant to
Mary L. Zuckerman, Executive VP
and Chief Operating Officer

Mary Martin, B.A., M.P.A.
Corporate Vice President
Performance Improvement & Radiology

313-745-1246 (phone)
313-966-7569 (fax)
jcupp@dmc.org

-----Original Message-----

From: Cupp, Judy
Sent: Friday, July 01, 2011 10:08 AM
To: 'sarah.forster@nrc.gov'
Cc: Martin, Mary (Palazzolo)
Subject: FW: Email from DMC MFP
Importance: High

Attached are signed documents related to NRC License.

-----Original Message-----

From: m646e@dmc.org [<mailto:m646e@dmc.org>]
Sent: Friday, July 01, 2011 9:57 AM
To: Cupp, Judy
Subject: Email from DMC MFP

Please read and respond as appropriate.