

LICENSE TERMINATION APPLICATION

FOR

Capital City Medical Associates, PC
1505 Southwest Boulevard
Jefferson City, MO 65109

COPY #1 NRC

RECEIVED SEP 3 0 2008

CERTIFICATE OF DISPOSITION OF MATERIALS

Estimated burden per response to comply with this mandatory collection request: 30 minutes. This submission 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, NE08-10202, (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

Capital City Medical Associates, PC
1505 Southwest Blvd.
Jefferson City, MO 65109

LICENSE NUMBER

24-32360-01

DOCKET NUMBER

030-35881D

LICENSE EXPIRATION DATE

12/31/2011

- 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:
See attached transfer documents to 24-26241-01MD
 - b. Disposal of radioactive materials:
 - 1. Directly by the licensee:
See attached decay-in-storage waste disposal
 - 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 Tom Dickinson	TITLE Lic. Med. Nuc. Physicist	TELEPHONE (Include Area Code) (314) 406-3346	E-MAIL ADDRESS twdickinson@prodigy.net
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Mail all future correspondence regarding this license to:

Peggy Eskens, Manager Address Same as above

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

PRINTED NAME AND TITLE

Peter Boyer, M.D., President of CCMA

SIGNATURE

DATE

9/15/08

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.

On June 27, 2008, Capital City Medical Associates ended Nuclear Medicine Services. At that time Sheryl Bacon, CNMT, our Technical Director of Nuclear Medicine, closed all radioactive waste bins. Because waste bins contained both Tc-99m and Tl-201, the only unsealed radioactive material used at this facility, the bins were placed in decay-in-storage for 31 days.

On June 30, 2008, licensed sealed sources in our possession were transferred to Mid-America Isotopes, Inc., 706 E. Liberty Lane, Ashland, MO 65010, NRC Lic. # 24-26241-01-MD. The contact individual at Mid-America Isotopes, Inc., is Scott C. Brower, R.Ph., BCNP, RSO. The phone number for Mid-America Isotopes, Inc., is (573) 657-1776. Leak tests were done on the sealed sources semiannually and there was no history of any leaking source. Attached are transfer documents and acknowledge of receipt. Also attached is a record of the most recent leak tests that were done on the sealed sources.

On July 28, 2008, the waste bins were surveyed at contact with the survey meter set on the most sensitive scale. The exposure at the surface of the plastic containers did not exceed background exposure of 0.02 mR/hr. The containers were disposed of as nonradioactive biohazardous waste. Records of the disposal records are attached. Instrument used for surveys: Ludlum 14C, S/N 182844, with pancake probe, last calibrated 02/18/08. The meter passed a battery and constancy test just before surveys were done.

After the waste was disposed of, a complete close out survey of the restricted area was done. Surveys were done with the meter set at the most sensitive scale and held at a distance of 1cm from the areas surveyed. None of the survey areas exceeded background exposure of 0.02 mR/hr. Alcohol wipe smears were used to take wipes (minimum of 100 cm² area) for removable contaminations in the restricted and unrestricted areas. Analysis of the leak smears on the CRC-15 W well counter showed no activity above background, 247 cpm or 0 dpm with a LLD of 56 dpm. No wipe test result exceeded 56 dpm/100 cm². The instrument used to analyze wipe smears was our Capintec CRC-15W, S/N 170357, well counter. The well counter passed daily quality control testing just prior to counting the wipe smears. The energy range of the well counter is set at 15 to 800 keV. An efficiency test was done on this instrument on 9/28/07. An NIST traceable Co-57 rod source was used to determine efficiency. An efficiency of 85% was determined, which gives a CF for cpm to dpm of 1.18. With a background count of 280 cpm on the date of efficiency testing this unit has a LLD of 60 dpm and a MDA of 2.7 E-05 microcuries. Results of the close out survey confirm that any remaining residual radioactivity was within the limits of 10 CFR 20, SUBPART E, and are ALARA.

We request the release of restricted rooms that were used for the storage and use of licensed material, for unrestricted use and the termination of our Materials License.

Capital City Medical Associates, continues to operate as a medical clinic at the stated address.

SEALED SOURCE TRANSFER

This written document acknowledges the permanent transfer of (3) three sealed sources:

1. Cs-137, vial - sealed source, 201 μ CI, calibration date of February 01, 2002, North American Scientific, Model #MED3550, S/N 18128, last leak tested 8/25/08, removable contamination less than 0.005 μ CI.
2. Co-57, flood - sealed source, 10 mCi, calibration date of November 16, 2006, North American Scientific, Model #MED3709, S/N 100724, last leak tested 3/25/08, removable contamination less than 0.005 μ CI.
3. Cs-137, calibration - rod source, 500nCi (Nominal Activity), 3/01/02, Isotope Products, Model # GF-0008, S/N 651-21. This source was manufactured and distributed by Isotope Products as an "exempt" source. Leak testing is not required on this source.

The above sources were transferred from Capital City Medical Associates, 1505 Southwest Blvd., Jefferson City, MO, to Mid-America Isotopes, 706 E. Liberty Lane, Ashland, MO 65010.

The Cs-137 vial and Co-57 flood sources were last leak tested on March 25, 2008, by Associates in Medical Physics, LLC (NRC Lic.# 34-26645-02. Removable contamination was less than 0.005 uCi (attached).

The signatures below documents that the sources were transferred by Capital City Medical Associates, on June 30, 2008, and received by Mid-America Isotopes.

Sheryl Bacon
Signature

Sheryl Bacon
Name

Technical Director
Title (Capital City Medical Associates)
24-32360-01
NRC License No.

749
Missouri DHSS Reg. #

6-30-08
Date

Scott C. Brower
Signature

SCOTT C. BROWER
Name

R.S.O.
Title (Mid-America Isotopes, Inc.)
24-26241-01MD
NRC License No.

6062
Missouri DHSS Reg. #

6-30-08
Date

Scott C. Brower R.Ph., BCNP
Mid-America Isotopes, Inc.
706 E. Liberty Lane
Ashland, MO 65010

MEDICAL PHYSICS SURVEY SEALED SOURCE LEAK TEST ANALYSIS REPORT

FACILITY: Capital City Medical Associates, P.C. DEPARTMENT: Nuclear Medicine
 LOCATION: Jefferson City, MO ATTENTION: Dr. Schlegel

Analysis of the WIPE used to conduct a leak test on the sealed sources identified below was performed by gas or scintillation detection and reveals removable contamination was less than 0.005 μCi , unless otherwise noted, when compared against NIST traceable standards.

Source: Cs-137, Vial, 201 μCi , 02/01/02, N. Ame. Sci., Model #MED3550, S/N 16128.

Date:	12/20/06 TWD	6/29/07 TWD	12/18/07 TWD	3/25/08 TWD
Wipe No.:	1027	3063	4963	6015
MDA (μCi):	2 E-4	2 E-4	2 E-4	2 E-4
Net CPM:	16	0	22	8
Net μCi :	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 μCi :	1,500	1,500	1,500	1,500
Analyst:	AY	AY	LB	LB

Source: Co-57, Flood, 10 mCi, 11/16/06, N. Ame. Sci., Model # MED3709, S/N 100724.

Date:	12/20/06 TWD	6/29/07 TWD	12/18/07 TWD	3/25/08 TWD
Wipe No.:	1028	3064	4964	6016
MDA (μCi):	3 E-5	3 E-5	3 E-5	3 E-5
Net CPM:	133	0	7	60
Net μCi :	< MDA	< MDA	< MDA	< MDA
CPM for 0.005 μCi :	10,160	10,160	10,160	10,160
Analyst:	AY	AY	LB	LB

Performed by: Associates in Medical Physics, LLC Under License No.: 34-26645-02

Disposal Record

Instrument: Ludlum 14C Serial # 182844

Isotope must be stored for 10 half-lives and reading should not be distinguishable from background.

Isotope	Half-life	Date Stored	Disposal Date	Surface Reading	Bkgd.	Initials
Tl ²⁰¹	72 hr.	12-18-07	4-11-08	.01	.01	SB
Tc ^{99m}	6 hr.	4-2-08	4-21-08	.02	.02	SB
Tc ^{99m}	6 hr.	4-21-08	5-8-08	.02	.02	SB
Tc ^{99m}	6 hr.	5-8-08	5-30-08	.01	.01	SB
Tc ^{99m}	6 hr.	5-30-08	6-19-08	.01	.01	SB
Tl ²⁰¹	72 hr.	4-11-08	6-27-08	.01	.01	SB
Tc ^{99m}	6 hr.	6-19-08	6-27-08	.01	.01	SB
Tl ²⁰¹	72 hr.	6-27-08	7-28-08	.015	.02	SB
Tc ^{99m}	6 hr.	6-27-08	7-28-08	.01	.02	SB

Weekly Radiation Survey and Wipe Test

Date: 7-28-08

Surveyor: Sheryl Bacon

Instrument: Ludlum 14C

Instrument: CRC-15W

Serial# 182844

Serial# 170357

Source: Cs 137 1 uCi 1-1-02.

Check Source: 0.8 mr/hr

Bkgd: .02 mr/hr

Restricted Action Level: 2 mr/hr

Action Level: 2000 dpm

Public Action Level: 0.5 mr/hr

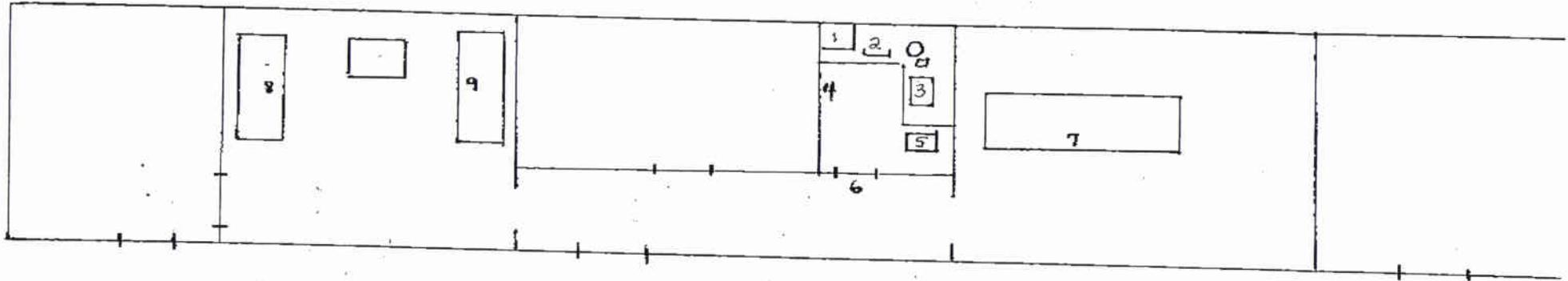
Bkgd: 247cpm
Wipe Test

Area	Area Survey mr/hr	Wipe Test dpm
1. Lead Bricks	<u>.01</u>	<u>0</u>
2. Dose Prep Area	<u>.01</u>	<u>0</u>
3. Sink	<u>.01</u>	<u>0</u>
4. Storage Area	<u>.01</u>	<u>0</u>
5. Injection Area	<u>.01</u>	<u>0</u>
6. Hallway	<u>.005</u>	<u>0</u>
7. Imaging Table	<u>.005</u>	<u>0</u>
8. Treadmill	<u>.01</u>	<u>0</u>
9. Adenosine Bed	<u>.005</u>	<u>0</u>

Remarks:

Weekly Radiation Survey and Wipe Test Legend

No. 8432 P. 2



1. Lead Bricks
2. Dose Prep Area
3. Sink
4. Storage Area
5. Injection Area
6. Hallway
7. Imaging Table
8. Treadmill
9. Adenosine Bed

CCMA MED REC 573-634-2033

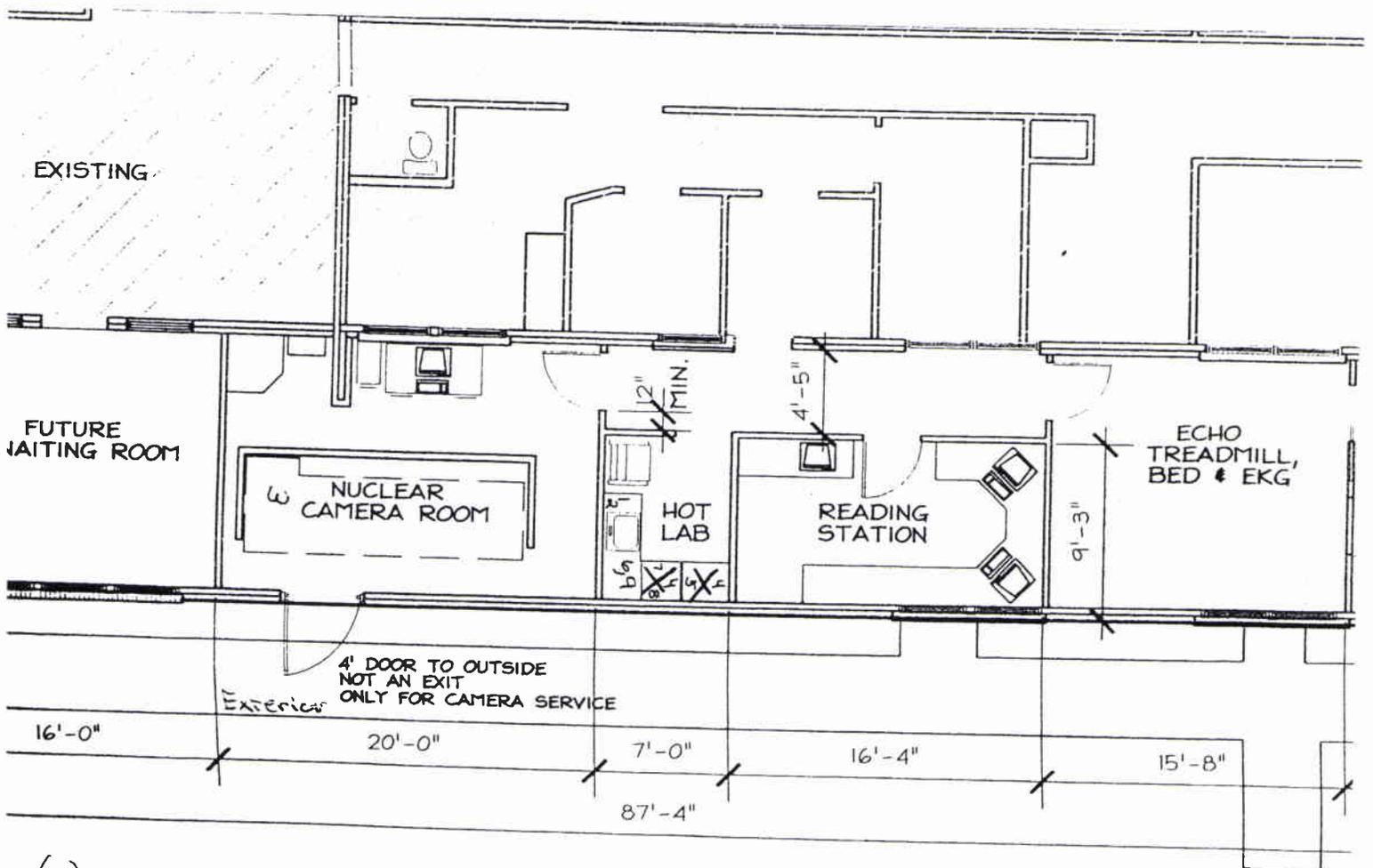
Jul. 31. 2008 11:08AM

Attachment 9.1

Facilities and Equipment Diagram

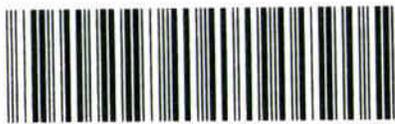
- 1 Survey Equipment
- 2 Well
- 3 Camera
- 4 Lockable Door
- 5 Receipt Area
- 6 Generator
- 7 Kit/Dose Preparation
- 8 Isotope Storage
- 9 Waste Storage

ADJACENT AREAS
See facility diagram of building



(4) XX - The hot lab will contain locking cabinets for the material.

CAPITAL CITY MEDICAL ASSOCIATES
1505 SOUTHWEST BOULEVARD
JEFFERSON CITY, MO 65109



0305 0830 0000 9322 6818



Master

016H26517680

\$06.41⁰

09/26/2008

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