

# Perry County Memorial Hospital

434 North West Street • Perryville, MO 63775-1398 • 573-547-2536  
pchmo.org • pcmh@pchmo.org

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June 30, 2009

U. S. N. R. C., Region III  
Material Licensing Section  
2443 Warrensville Road, Suite 210  
Lisle, IL 60532-4352

Re: Change in Areas of Use

To Whom It May Concern:

Perry County Memorial Hospital Radiology Department, material license number 24-17037-02, would like to inform the NRC that we have a change in areas of use for our facility located at 434 N West Street in Perryville, Missouri.

We have re-located our nuclear medicine imaging room from the 1<sup>st</sup> floor, Room 604, to 1<sup>st</sup> floor, Room 1-551. Drawings for this new room have been enclosed. As a result, licensed materials will no longer be used in Room 604. All sealed reference sources have been re-located to the new imaging area in Room 1-551.

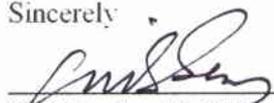
A close-out survey was performed on the last day licensed materials were used in this area and have been enclosed for your review. This area will be released for unrestricted use on July 1, 2009.

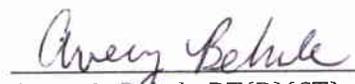
Also, I have also included the following:

1. The following list is a history of all radionuclides used in Room 604:
  - a. Technetium-99m (nuclear imaging studies)
  - b. Cesium 137 (reference sources – calibration)
  - c. Europium 152 (reference sources – calibration)
2. A copy of the leak test results for the sealed sources that were current at the date of the close-out survey.
3. A diagram of Room 604 with survey and wipe tests keyed to specific locations which correspond to the close-out survey performed on June 30, 2009.
4. The close-out survey was performed by one of our Nuclear Medicine Technologists, Avery L. Behrle RT(R)(CT), CNMT.
5. All radioactive waste from Room 604 was held and decayed to background before being disposed of as biomedical waste.

If you have any additional questions, please feel free to contact me at 573-768-3293 or [cmwibbenmeyer@pchmo.org](mailto:cmwibbenmeyer@pchmo.org).

Sincerely,

  
Christopher M. Wibbenmeyer, MBA  
Director of Radiology

  
Avery L. Behrle RT(R)(CT), CNMT  
Chief Nuclear Medicine Technologist

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## CLOSE-OUT SURVEY SUMMARY

**FACILITY:** Perry County Memorial Hospital  
434 N West St. Nuclear Medicine Room 604  
Perryville, Missouri 63775

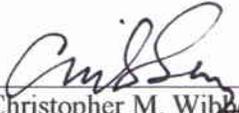
**DATE OF SURVEY:** June 30, 2009

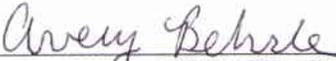
**INSTRUMENTATION:** Capintec Caprac, S/N 000032, Efficiency 0.53, Calibrated: 4/2009  
Ludlum 14C, S/N 80921, Calibrated: 9/2008

**MEASUREMENTS:** The following items and areas were surveyed for ambient exposure rates and removable contamination:

<u>Location</u>	<u>Cpm/100 cm<sup>2</sup></u>	<u>Net Dpm/100 cm<sup>2</sup></u>	<u>mR/hr @ 1m</u>
Background	707	---	0.01
1. Floor Outside Door	721	26	0.01
2. Hot Lab & Counter Area	742	66	0.01
3. Floor in Front of Counter	730	43	0.01
4. Patient Table	742	66	0.01
5. Administration Area	708	2	0.01

**CONCLUSION:** All items and areas surveyed for removable contamination and ambient radiation exposure levels were determined to be below the unrestricted area trigger levels.

  
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Christopher M. Wibbenmeyer, MBA  
Director of Radiology

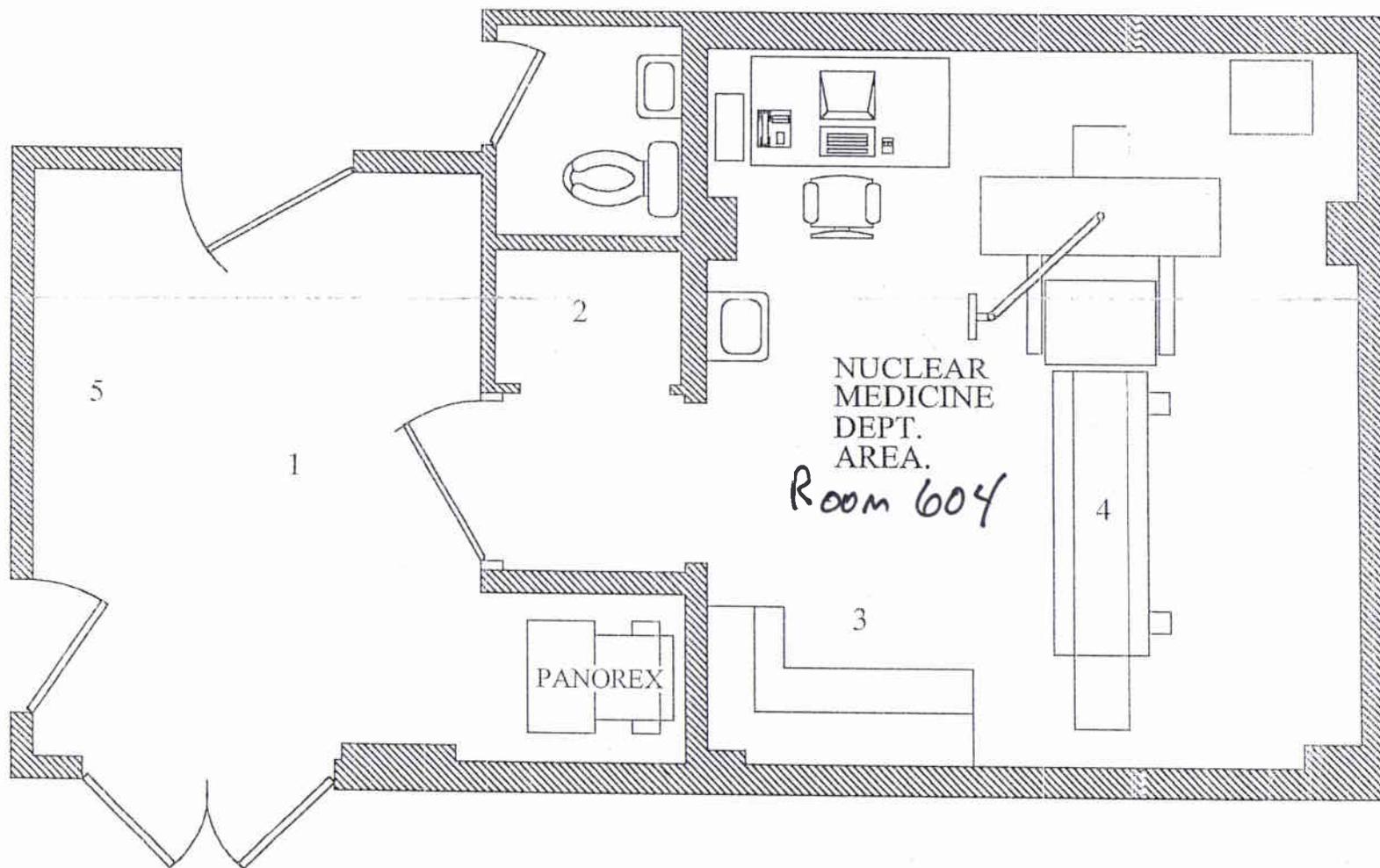
  
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Avery L. Behrle RT(R)(CT), CNMT  
Chief Nuclear Medicine Technologist

PERRY COUNTY MEMORIAL HOSPITAL

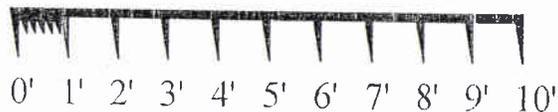
OLD

Nuclear Medicine

~~11/01/03~~



SCALE



1-500

CORRIDOR

B

Ultrasound

1-551

Hot Lab

Counter

DRESSING RM

1-550  
CONTRCL ROOM

REST RM

SINK

New  
Nuclear  
Medicine

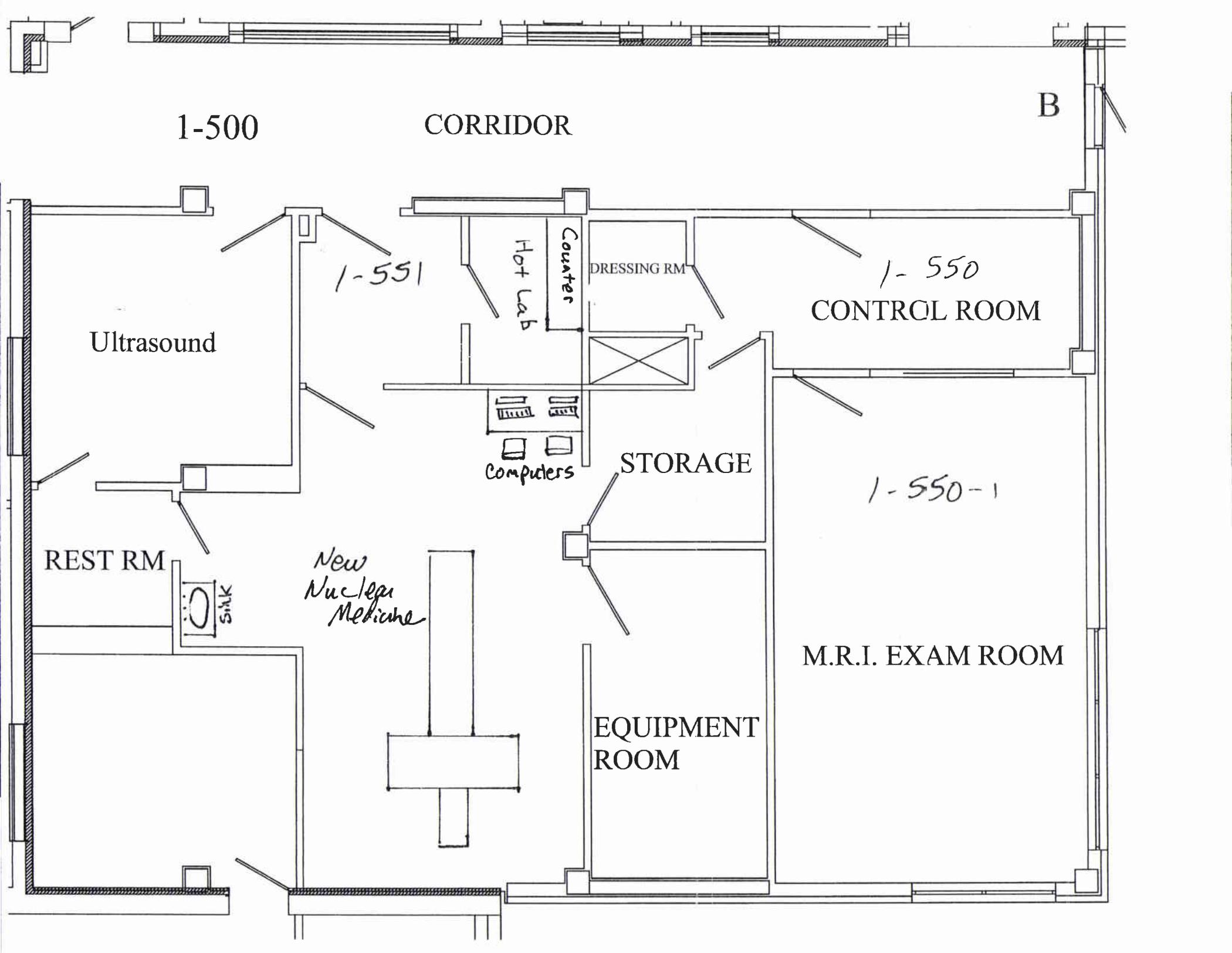
Computers

STORAGE

1-550-1

M.R.I. EXAM ROOM

EQUIPMENT  
ROOM





# THE MEDICAL PHYSICS GROUP, LTD.

## Consultants in Radiation Physics

P.O. Box 410493  
Saint Louis, MO 63141  
(314) 260-7997

Robert F. Turco, Ph.D., DABR  
Jean Y. Gu, M.S., DABR  
Kenneth L. Andrews, M.S., DABR  
Rebecca M. Seibert, Ph.D.

### CERTIFICATE OF LEAK TEST

Facility: Perry County Memorial Hospital  
434 North West Street  
Perryville, MO. 63775

NRC License No: 24-17037-02

Expiration Date: 1/31/2015

Source Manufacturer: Capintec

M/N: S/N: 319-251-22

Isotope: Cs-137

Activity : 101.4 uCi on 8/25/1978

Individual Performing Test: Kenneth L. Andrews

Date: 4/1/2009

This test was performed in accordance with NRC License instructions.

Date Sample Received 4/1/2009

Date Sample Processed 4/2/2009

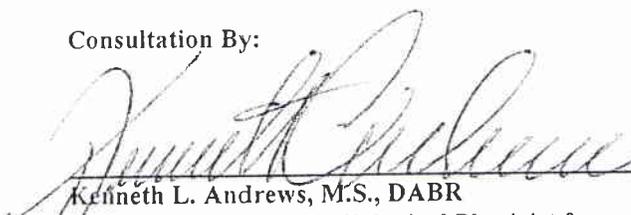
#### TEST DATA

Sample	CPM (net)	DPM	Activity (Microcuries)	
Source	10	19	0.0000	CPM-Counts per minute
Container	10	19	0.0000	DPM-Disintegrations per min
				Efficiency =0.530
Standard Cs-137	205,593	387,921	0.1747	

#### CONCLUSION:

Results of this test indicate the presence of less than 0.005 microcuries of removable contamination and meet presently accepted standards of radiation safety. In accordance with prevailing regulations, this source should be leak tested on or before 10/1/2009.

Consultation By:

  
Date: 4/2/2009  
Kenneth L. Andrews, M.S., DABR  
Certified Diagnostic Radiological Physicist for  
The Medical Physics Group, Ltd.

Perry County Memorial Hospital  
Chris Wibbenmeyer  
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