



U. S. Nuclear Regulatory Commission
Region III
Materials Licensing Section
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

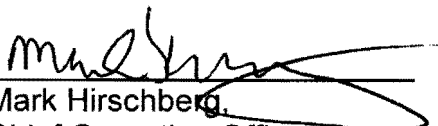
License Number 24-16275-01

Dear Materials Licensing Section:

Construction has been completed and we have moved into the rooms in the "new" Nuclear Medicine Department. After all radioactive material was removed from the "old" rooms, a close out survey was done and we are requesting to have these rooms released for unrestricted use. The only unsealed radiopharmaceuticals used in the "old" rooms were Tc-99m, In-111, and Tl-201 (35.200) and Sm-153 (35.300). Our use of I-123 and I-131 is in capsule form only. Our sealed sources were last leak tested on 9/28/11 and removable contamination was below 0.005 uCi on each source. The hood (radiopharmaceutical preparation area) was moved and installed in the new hot lab. Robert Wideman, our Chief Nuclear Medicine Technologist, performed both gm surveys (ambient radiation exposures) and wipe test surveys (removable contamination) in the rooms (attached -see Close Out Survey of Remaining Areas in "Old" Nuclear Medicine Department). There were no radiation exposures that exceeded background levels of 0.02 mR/hr. All wipe test smears showed no removable contamination of concern. The highest wipe count for removable contamination was 13 dpm/100cm². Constancy tests were done on both the gm meter and well counter on day of use. Constancy values were within $\pm 20\%$ of the expected values. GM surveys were taken with the survey meter set on the most sensitive scale. Wipe test smears were analyzed in the Captus 3000 well counter using a wide window of 15 to 2,000 keV.

If you have any additional questions on this request, please contact Robert Wideman, Chief Nuclear Medicine Technologist at (660)827-9536.

Sincerely,


Mark Hirschberg
Chief Operating Officer

2-2-12
Date

Exceptional care, close to home.

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Close Out Surveys of Remaining Restricted Areas in "Old"
Nuclear Medicine Department

Bothwell Regional Health Center, 601 East 14th Street, Sedalia, MO

Date of survey and wipe tests: January 20, 2012

Diagram #	Location - Hot Lab Room 231	Area Survey (mR/hr)	Wipe Test Removable contamination (dpm/100cm ²)
N/A	Background	0.02	279 [cpm]
1	East counter where radiopharmaceuticals were received, stored and prepared	0.02	0
2	East cabinets where 35.65 sealed sources and decay-in-storage waste was stored	0.02	0
3	Sink on East wall	0.02	13
4	Floor North area	0.02	0
5	Floor South area	0.02	1
6	Door handles hot lab both sides of door	0.02	0

Diagram #	Location - Imaging Room 232	Area Survey (mR/hr)	Wipe Test Removable contamination (dpm/100cm ²)
N/A	Background	0.02	279 [cpm]
7	Floor East area	0.02	0
8	Floor West area	0.02	3
9	East counter, area of Pb Sharps container	0.02	3
10	Floor, area of patient injection chair	0.02	3
11	Door handles, both side of door	0.02	3

Diagram #	Location - Imaging Room 229	Area Survey (mR/hr)	Wipe Test Removable contamination (dpm/100cm ²)
N/A	Background	0.02	279 [cpm]
12	Floor	0.02	0
13	Floor, area of patient injection chair	0.02	0
14	Door handles, both side of door	0.02	0

Diagram #	Location - Imaging Room 230	Area Survey (mR/hr)	Wipe Test Removable contamination (dpm/100cm ²)
N/A	Background	0.02	279 [cpm]
15	Floor East area	0.02	10
16	Floor West area	0.02	10
17	East counter, area of Pb Sharps container	0.02	2
18	Floor, area of patient injection chair	0.02	10
19	Door handles, both side of door	0.02	0

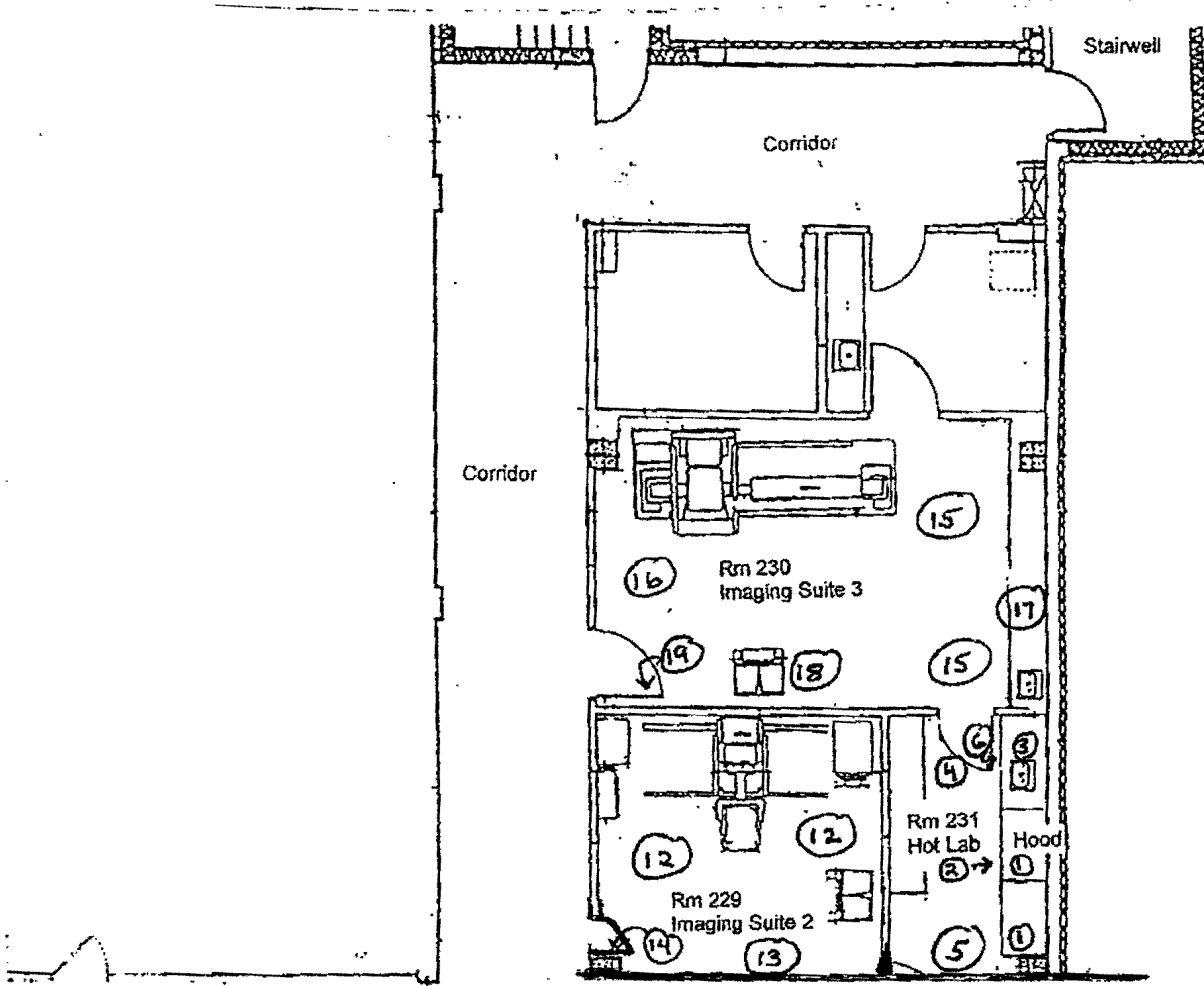
Instrumentation used for close out survey:

Surveys done with Bicron 2000, S/N A063R, calibrated 4/18/11.

Wipes analyzed with Captus 3000 well counter, Co-57 efficiency 87% 9/28/11.

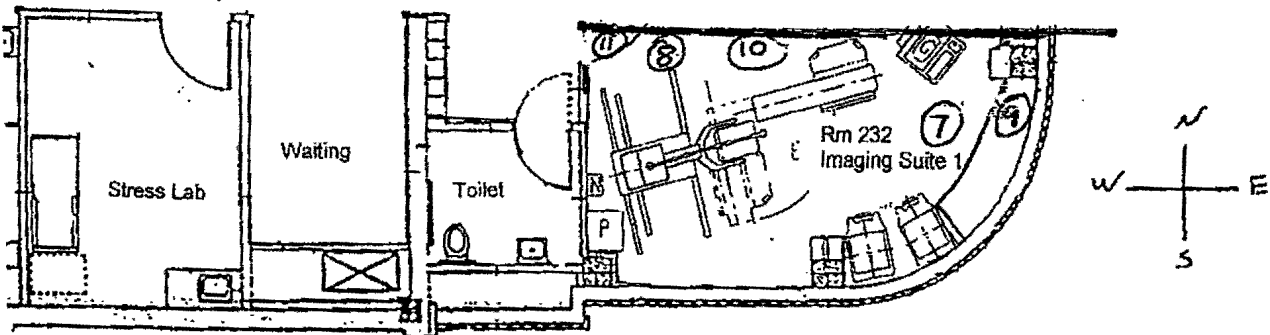
Surveys and wipe performed by: Robert Wideman, CNMT, Chief Nuclear Medicine Technologist

Close Out Survey "Old" Nuclear Medicine Department Rooms - Diagram of locations for specific surveys and wipe tests.



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FROM: (PLEASE PRINT) PHONE ()
**Robert Wideman, CVMT
Nuclear Medicine Department
Bathwell Regional Health Center
601 E. 14th Street
Sedalia, MO 65302-1706**

TO: (PLEASE PRINT) PHONE ()
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2443 Warrenville Road, Suite 210
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