



St. Anthony's Medical Center

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ST. LOUIS, MISSOURI 63128

Department of Radiology

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Edward R. Habert, M.D.
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Daniel A. Abodeely, M.D.
Jose G. Vijungco, M.D.
J. Michel Germaoui, M.D.
Edward W. Szok, M.D.

NMSS MAIL SECTION

January 4, 1982

Bruce S. Mallett, PH.D., Section Leader
Region III Licensing Section
Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: Control No. 05241
License No. 24-01041-04

Gentlemen:

Pursuant to your letter of Dec. 10, 1981 requesting additional information regarding Amendment to our NRC license No. 24-01041-04, we submit:

1. a, b, Doctor Vijungco has received clinical radioisotope training well in excess of 500 hours, including interim training and experience from 1978 to 1981 at St. Anthony's Medical Center in excess of 750 hours, as documented on the enclosed form NRC 313M-Supplement B.
- c, d, e, Doctor Germaoui's clinical training and experience at St. Anthony's Medical Center is documented by the enclosed form NRC 313M-Supplement B.
2. Concerning request to relocate nuclear medicine facilities:
 - a, Lead shielding for the Molybdenum 99 Technetium 99m generator is 1 1/2" in the wall of the Squibb Maxi-shield which, in turn, is enclosed in a portable film box holder with 1/2" lead lining. The dose preparation area is equipped with 3 tabletop lead barrier shields containing 1/2" thick lead walls and base with 1/4" thick lead glass viewing area.
 - b, Closeout survey of old Nuclear Medicine area revealed no detectable or removable contamination at any of the locations listed on the Area Radiation Survey diagram enclosed. None was expected in that only relatively short-lived radioactivity, principally Technetium 99m and occasionally, Thallium 201, and rarely, I-123 and I-131 was used in this area and none of the spent Molybdenum 99 generators are stored in this area but rather in a remote area of the hospital, previously approved and unchanged. Furthermore, the old area has been closed off and idle for six months, allowing ample time for decay to background of any possible contamination.
3. Concerning Request to use Xenon 133.
 - a, Airflow rates in the ventilation systems will be performed semiannually.
 - b, The Xenalarm instrument to monitor the effluent from the Xenon 133 gas trap will be calibrated annually using the Cesium 137 checksource and procedure supplied by the manufacturer.

01-0315 Rev. 10/81

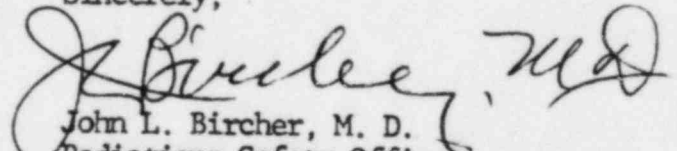
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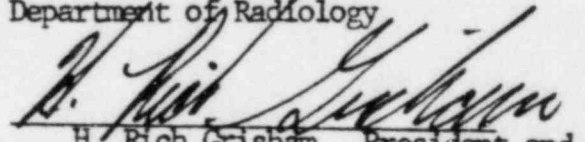
c, Emergency procedure, in case of accidental release of Xenon 133:

As soon as the alarm is sounded, personnel have been instructed to hold their breath, close vents and doors between adjoining rooms and evacuate the area. After assessing the magnitude of release and personnel exposure, a decision to re-enter is based upon the audible signal and careful survey meter measurements to ensure safe air concentration.

Sincerely,


John L. Bircher, M. D.
Radiations Safety Officer
Department of Radiology

JLB:jk
Enclosures:
CC: Chief, Materials Branch
U.S. Nuclear Regulatory Comm.
Washington, D. C. 20555


H. Rich Grisham, President and
Chief Executive Officer
St. Anthony's Medical Center.

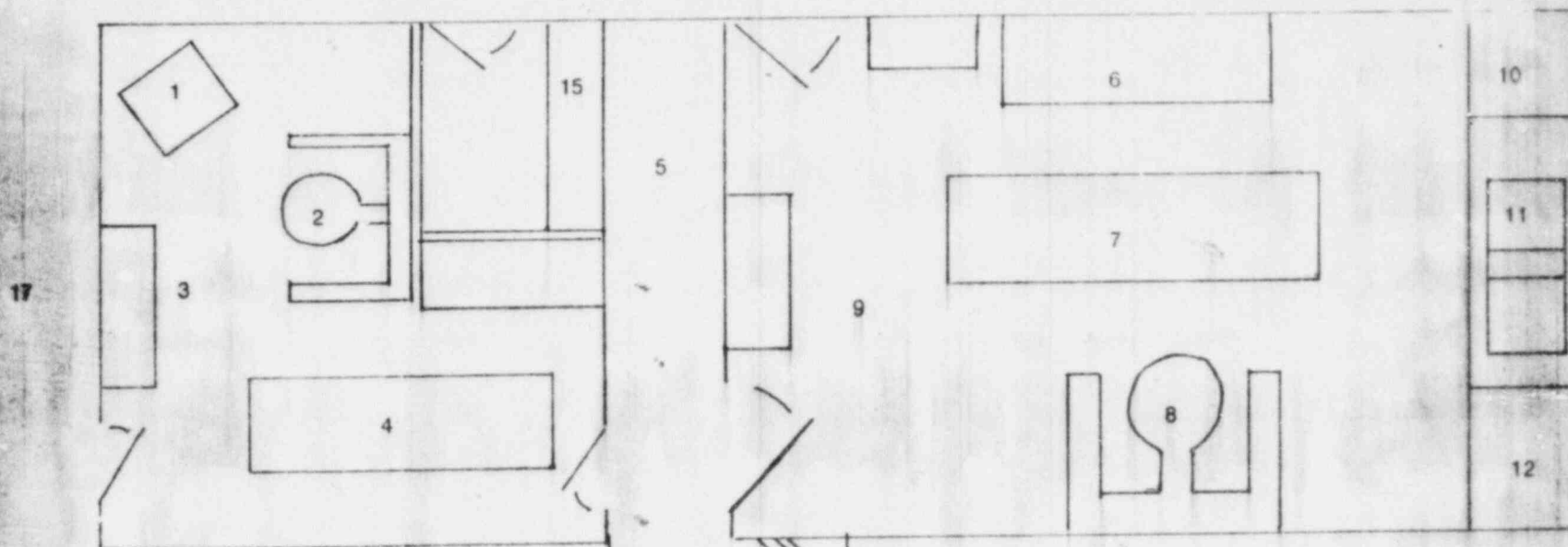
ST. ANTHONY'S MEDICAL CENTER
DEPARTMENT OF NUCLEAR MEDICINE

RADIATION SURVEY

51-0327 4/9/80

N.R.C. License # 24-01041-04

16



1. Console	No detectable or removable contamination				
2. Detector	"	"	"	"	"
3. Floor	"	"	"	"	"
4. Patient Cart	"	"	"	"	"
5. Floor	"	"	"	"	"
6. Console	"	"	"	"	"
7. Patient Cart	"	"	"	"	"
8. Detector	"	"	"	"	"
9. Floor	"	"	"	"	"
10. Dosecalibrator Area	"	"	"	"	"
11. Hot sink	"	"	"	"	"
Refrigerator (not shown)	"	"	"	"	"

12. Radiopharm Prep Area	No contamination observed	
13. Well Counter	"	"
14. Uptake Scaler	"	"
15. Radiopharm Area	"	"
16. Floor	"	"
17. Floor	"	"

Rad. Waste
(not shown)

Date: 12/12/81 (None expected after 6 months of disuse and only short lived radionuclides in prior use)
Performed by: *John H. Bradley, M.D. R.S.O.*

ST. ANTHONY'S MEDICAL CENTER
DEPARTMENT OF NUCLEAR MEDICINE

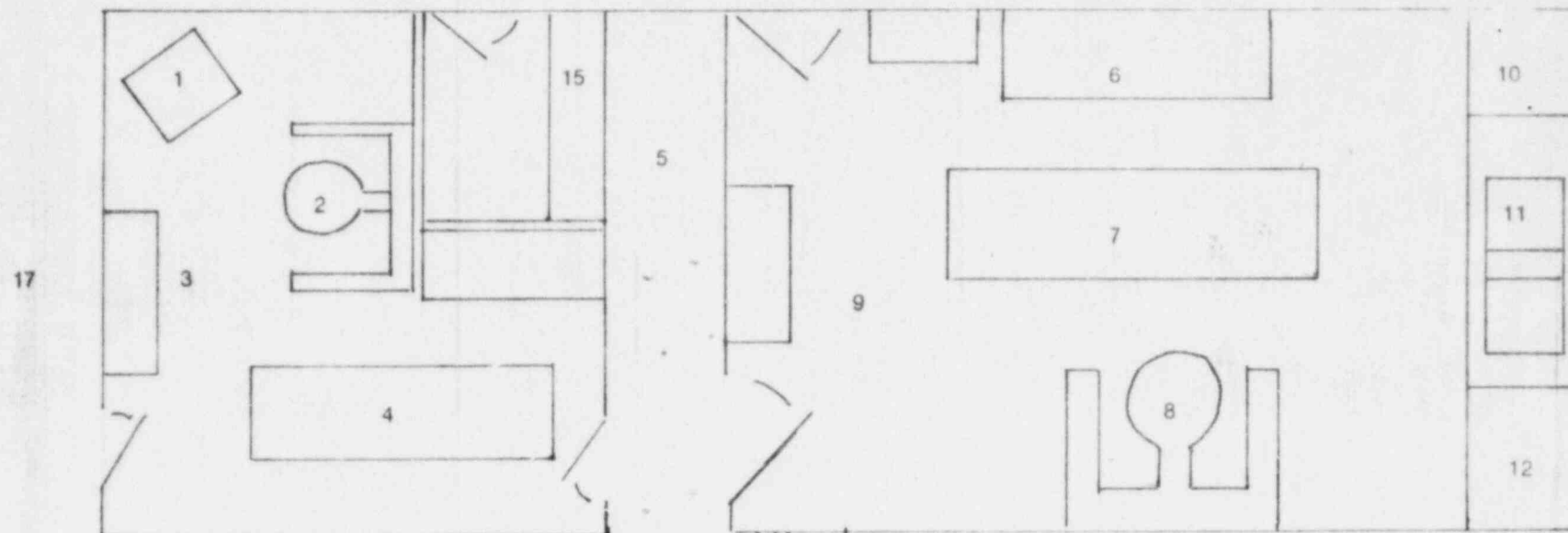
RADIATION SURVEY

01-0327 4/9/80

N.R.C. License # 14-01041-04

LAST SURVEY BEFORE MOVING TO NEW AREA

16



Console	MR/HR	CPM
Detector	.1	637
Floor	.1	646
Patient Cart	.1	659
Floor	.1	646
Console	.1	659
Patient Cart	.1	633
Detector	.1	647
Floor	.1	649
Dosecalibrator Area	.1	637
Hot sink	.1	651
Refrigerator (not shown)	.1	662
	.1	635

Rad. Waste
(not shown)

- 12. Radiopharm Prep Area
- 13. Well Counter
- 14. Uptake Scaler
- 15. Radiopharm Area
- 16. Floor
- 17. Floor

MR/HR	CPM
.1	641
.1	644
.1	648
.1	659
.1	644
.1	656

Bkgd.

Date:

6/4/81

Performed by:

R. Muth agent

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