

November 19, 1981

John E. Glenn, Ph.D.
Material Licensing Branch
Division of Fuel Cycle and Material Safety
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Dr. Glenn,

The following is provided in response to your letter of November 12, 1981, requesting information concerning calibration of survey meters for the Griffin Hospital, Derby, Connecticut.

The calibrations are performed at Yale-New Haven Hospital, New Haven, Connecticut. The procedures used are equivalent to those described in Appendix D, Section 1, Regulatory Guide 10.8, October, 1980 Revision.

Survey meters are calibrated with sources of ^{99m}Tc up to 500 millicuries; these sources of activity are routinely available from ^{99}Mo - ^{99m}Tc generators used in the Nuclear Medicine Clinic. The ^{99m}Tc source activity is measured first in a dose calibrator ionization chamber which is calibrated by sources traceable to NBS standards. Corrections for decay from time of assay to survey meter calibration time are applied, using the ^{99m}Tc half life of 6.02 hours. In addition, NBS-traceable sources of ^{137}Cs are available for high-energy calibration. A description of the sources and their calibration is enclosed. In total, the ^{137}Cs activity is 266.4 mCi (January, 1982). Appropriate shielding is maintained around the sources during survey meter calibrations, so that personnel exposure is minimized.

The use of radioactive materials is authorized by U. S. NRC Byproduct Materials License 06-00819-03.

Survey meters are calibrated at two points on each scale, at approximately 1/3 and 2/3 of full scale, by varying the source-detector distance. Radiation exposure varies inversely with the square of this distance. Survey meters are not routinely calibrated above 1000 mR/hr; when appropriate, the fact that the meter is not calibrated above 1000 mR/hr is noted on the calibration certificate,

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NMS LIC30
06-04499-01 PDR

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and on the sticker applied to the meter itself. A reading of the check source (if in place on the survey meter) is also provided on the calibration certificate.

A copy of the calibration certificate supplied to the survey meter owner is enclosed.

The survey meter calibration service is also provided to the following institutions, in addition to the Griffin Hospital:

St. Vincent's Medical Center
Bridgeport, Connecticut
License Number 06-00843-03

The Stamford Hospital
Stamford, Connecticut
License Number 06-06697-02

Robert D. Russo, M.D.
Bridgeport, Connecticut
License Number 06-04499-01

Freedman and Associates - Nuclear Medicine
New Haven, Connecticut
License Number 06-17434-01

Sincerely,

Robert C. Lange, Ph.D.
Technical Director
Nuclear Medicine

RCL/a
Enclosures

OUTSIDE WALL

NUCLEAR
IMAGING

CORRIDOR

STAIR
WELL

ULTRASOUND
EXAM ROOM



CAMERA
CONSOLE

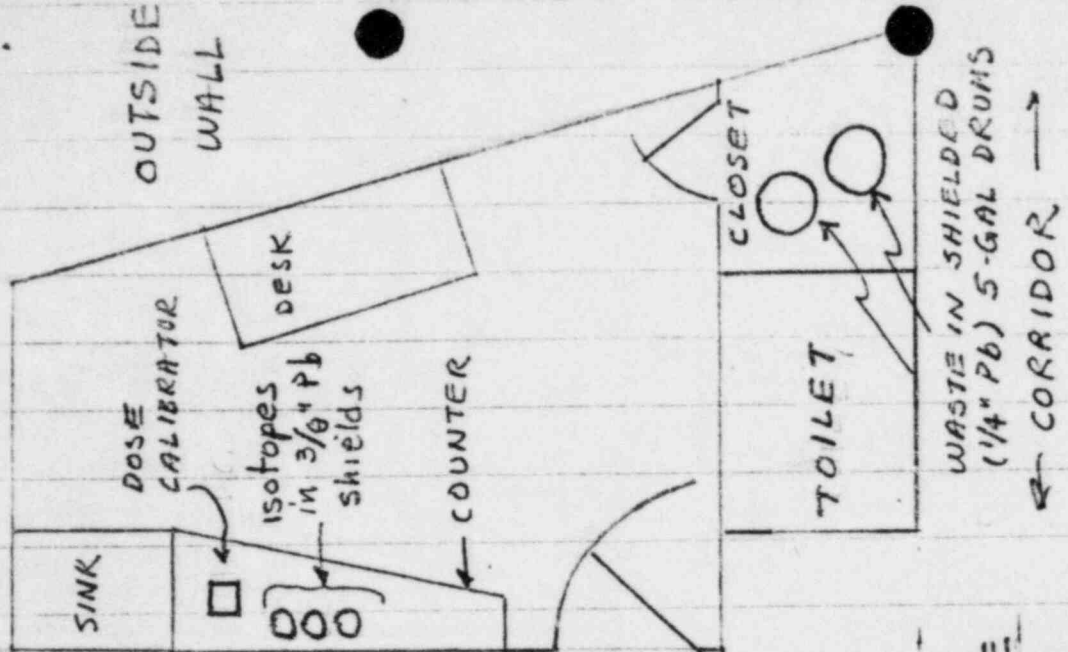
← CORRIDOR →

NUCLEAR MEDICINE CLINIC

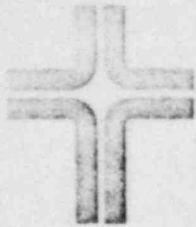
3RD FLOOR, 10 WASHINGTON AVENUE

BRIDGEPORT, CT. 06604

SCALE: 1/8" = 1 FT



RCL 1/8/82



St. Vincent's
Medical Center

2800 Main Street, Bridgeport, Connecticut 06606 / Phone (203) 576-6000

December 17, 1981

Robert D. Russo, M. D.
10 Washington Avenue
Bridgeport, CT

Dear Dr. Russo:

An attending physician of the Medical/Dental Staff of St. Vincent's Medical Center, whose patient has had a radionuclide test as an out-patient in a private facility, may admit that patient to this hospital while radioactive isotopes are in the patient's system under the same requirements and surveillance provided by this institution for all patients receiving similar radionuclide preparations in this hospital.

Sincerely,


William J. Riordan
President/Chief Executive Officer

WJR:mag

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