

December 2, 1985

Applicant	June 5, 1986
Check No.	133219140
Amount/Fee Category	7C
Type of Fee	amc
Date Check Rec'd	1/3/86
Received By	g

U. S. Nuclear Regulatory Commission
Radioisotopes Licensing Section
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: Amendment to our NRC Radioactive Materials License #12-13645-01

Gentlemen:

We request amendment to our NRC Radioactive Materials License #12-13645-01 for the following:

Iodine-125, Solid sealed source, AECL Model C-324 or Amersham Model IMC-P2, with a nominal activity of 200 mCi per source +25% to -10%. Possession of at least two I-125 sources is needed to permit source holder exchanges in the wrist scanner bone densitometer.

Gadolinium-153, Solid sealed source, with appropriate NRC registered sources from Amersham, Gulf Nuclear, New England Nuclear, Lunar, or other authorized suppliers, with a maximum nominal activity of 1 Curie per source, + individual supplier source specifications. Possession of at least two Gd-153 sources is needed to permit source holder exchanges.

Additional information is as follows:

1. Regarding training of persons installing and replacing the Gd-153 and I-125 sources. The manufacturer will provide on-site training with installation of the scanners. This will include instruction on the installation and replacement of the Gd-153 and I-125 source. Replacement of sources will occur only under the supervision of the Radiation Safety Officer, or his designee, both of whom will have been trained by the manufacturer's representative. Installation of the sources and use of the scanner shall not occur prior to such training by the manufacturer representative.
2. The Dual Photon Spine Scanner and the Single Photon Bone Scanner will only be used by and under the supervision of those nuclear physicians on our current license who are already licensed for diagnostic nuclear imaging procedures.
3. Semi-annual leak testing of the Gd-153 source in the Dual Photon Spine Scanner will be performed by using the Model LT-2 Leak Test Kit of S. A. Huber Consultants, Inc. - New Lenox, Illinois (NRC License #12-13645-01).

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CONTROL NO. 80401

PDR

REGION III
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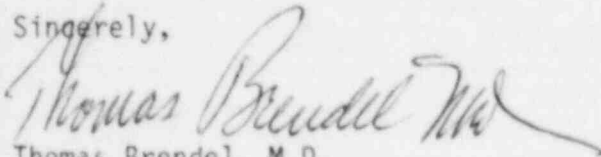
Semi-annual leak testing of the I-125 source (when purchased) used in the scanner will also be performed by using the Model LT-2 Leak Test kit of S. A. Huber Consultants.

4. The scanners are scheduled to be located in the Scanner Room of our Nuclear Medicine Department as shown on the attached facility sketch.
5. The addition of these diagnostic devices does not represent any changes in our receiving accountability and other Radiation Safety Program procedures as defined in our current NRC license.

The manufacturer and/or purchase timing of these diagnostic devices is unknown, but we wish to have proper licensing in place.

Enclosed is our check for \$120 to cover the amendment processing fee. We trust the information contained herein is sufficient to grant our request for amendment and look forward to receipt of that document.

Sincerely,

A handwritten signature in cursive script, reading "Thomas Brendel M.D.", written in dark ink.

Thomas Brendel, M.D.
Chairman, Radiation Safety Committee

:amw

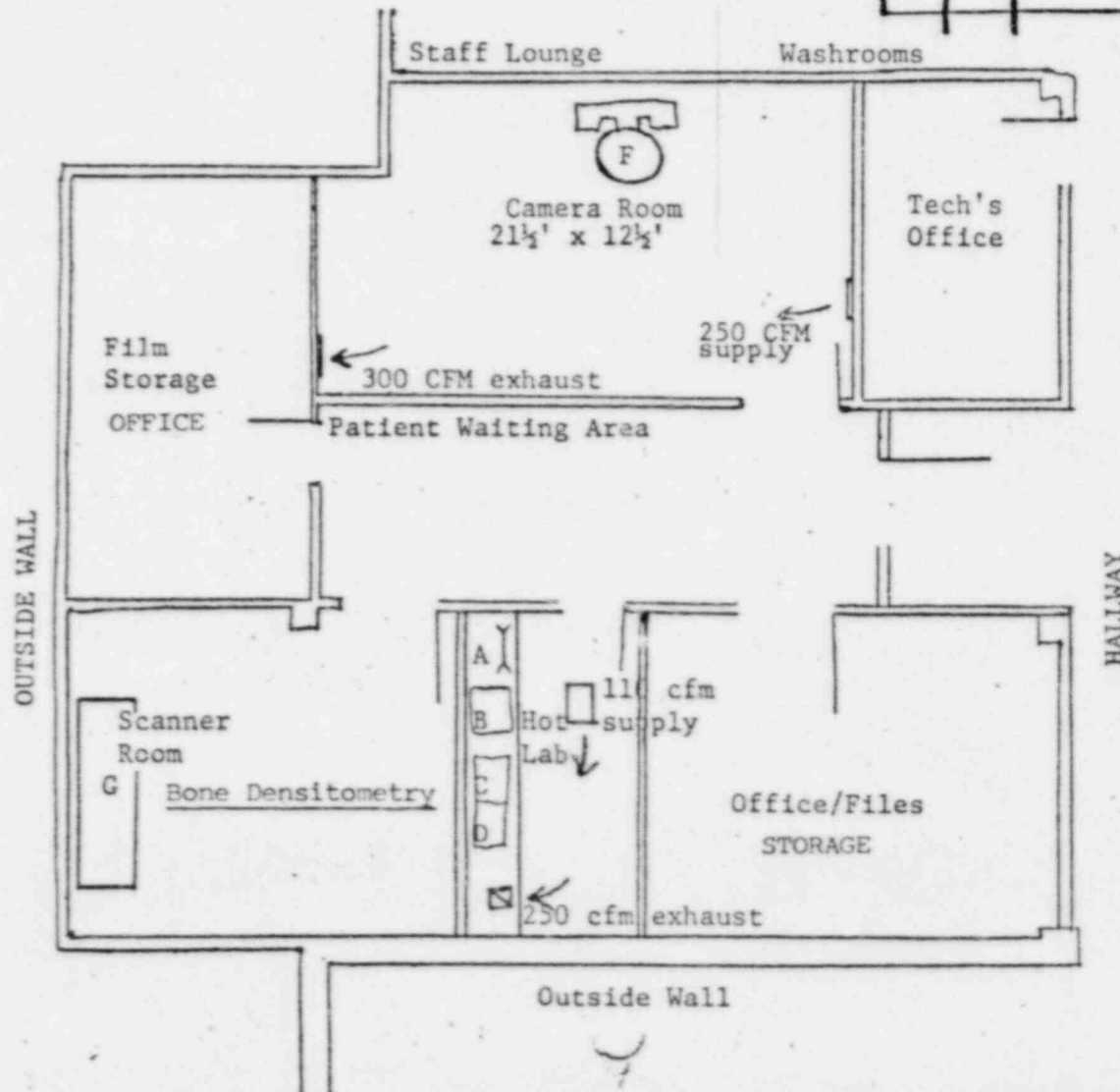
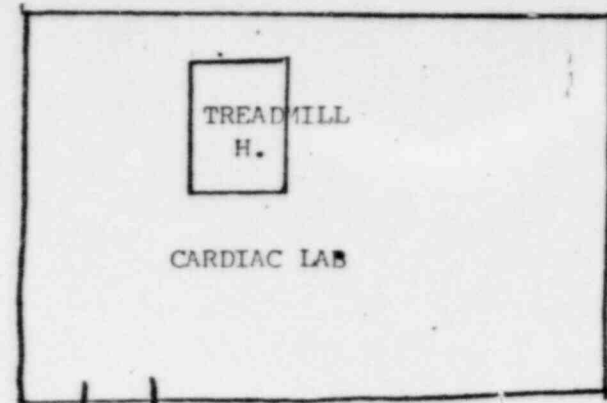
CONDELL MEMORIAL HOSPITAL
Libertyville, IL 60448

Nuclear Medicine Dept.

DATE _____

SURVEYED BY _____

SURVEY METER CHECKED _____



Key:

- A. Dose Prep Area
- B. Sink
- C. Radiation/Waste Storage
- D. Generator area (if used)
- E. Dose Calibrator
- F. Camera Detector
- G. Rectilinear Scanner
- H. TREADMILL
- G. Bone Densitometry

CONTROL NO. 80401