


030-03022

 **MCP** The Medical College of Pennsylvania

(215) 842-6000

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA. 19406

May 12, 1988

Re: Amendments, Lic. #37-02562-01

Gentlemen:

We request several amendments to Nuclear Medicine License #37-02562-01, of the Medical College of Pennsylvania and Hospital. In accordance with requirements of 10 CFR Part 170.31, a check for \$120.00 is enclosed for this purpose.

The changes requested are as follow:

- 1) Delete Barbara Schlager, M.D. as an individual user for Groups I, II & III
- 2) Delete Margaret LaManna, M.D. as an individual user for Groups I, II & III
- 3) Add Amy Lansman, M.D. as an individual user for Groups I, II & III.

Dr. Lansman is accredited by the American College of Radiology in the specialty of Diagnostic Radiology (1986), and has had extensive training in all aspects of nuclear medicine as a resident in Radiology at the Medical College of PA. (1982 through 1986), as a staff Radiologist at MCP since July, 1986 and at the University of Pennsylvania.

- 4) Staffing, equipping and operation of the Departments of Radiology and Nuclear Medicine at the Philadelphia Geriatric Center will become the responsibility of the Medical College of Pennsylvania this summer. It is requested that the clinical nuclear medicine license of the Medical College of Pennsylvania, #37-02562-01, be extended in scope to cover operations at the geriatric center. The Medical College of Pennsylvania is located at 3300 Henry Avenue, Phila., PA. 19129. The Philadelphia Geriatric Center is located at 5301 Old York Road, Phila., PA. 19141, some 10 minutes distant by automobile.

Commitments to the Nuclear Regulatory Commission by the Medical College of Pennsylvania, as stated in applications, renewal and amendment requests pertaining to License #37-02562-01 will be extended to operations at the Philadelphia Geriatric Center. As staffing at the Center will be by personnel currently working at the Medical College Nuclear Medicine facility, all aspects of the safety program at the latter will simply be carried over to the former. The technologists responsible for operations at the Geriatric Center will not be there full time, so they will continue to take part in the monthly meetings with the radiation physicist at MCP.

9001230296 881018
REGI LIC30
37-02562-01 PDR

RECEIVED-REGION 1
MAY 15 1988
PM 2:45

License Fee Information
on Application
108907

3300 HENRY AVENUE PHILADELPHIA, PENNSYLVANIA 19129

5/16/88

OFFICIAL RECORD COPY 1218

4) Extension, Lic. #37-02562-01, to Cover Operations at Phila. Geriatric Ctr. (Cont.)

By the same token, periodic visits will be made to the Center by members of the Radiation Safety Office at MCP in order to review the program there and provide whatever on the spot guidance is required to carry it forth properly.

It is intended to, on receipt of authorization, conduct imaging, uptake and laboratory studies in vitro at a fourth floor facility in the Friedman Building of the Geriatric Center. These studies are currently being done in this location by the Albert Einstein Northern Division Radiology Services under their Broadscope Lic. #37-00448-19. MCP has been given authorization by the Geriatric Center for a somewhat larger nuclear medicine facility in the same location, and a sketch of the area, with proposed equipment placement is enclosed with this application.

There is currently no provision at the Geriatric Center for ducting to the outside of Xe-133 escaping a trap system during inhalation studies. It is our intent to perform such studies when ductwork has been provided to vent Xe-133 from the imaging room described to the outlet of a dedicated hood in the Pharmacy adjacent. A trap - administration system for the Xe-133 will, of course, be utilized. Based on a maximum workload of 5 studies per week, 10 mCi. each, it has been calculated that an exhaust duct providing at minimum 400 CFM to the building roof and operating continuously can assure yearly averaged concentration at the roof which is well below 3×10^{-7} uCi/ml. with an assumed 20% loss of Xe-133 to the trap system. While the Pulmonex system will be obtained, no inhalation studies will be scheduled until it has been verified that the exhaust system is operating correctly and that negative pressure within the imaging room is properly established.

All radio-nuclides and pharmaceuticals currently employed in imaging studies at the Medical College of PA. will also be employed at the Geriatric Center, obtained either as unit doses from the vendors we now use, or in the form of standard kits. No use will be made of generators.

Nuclear medicine laboratory equipment to be provided at the Geriatric Center prior to commencement of operations will include, but may not be limited to, the following:

- a. A gamma camera system with tomographic and whole body scanning capability. Typical of systems under consideration are the G.E. "Maxicam" or the Toshiba GCA-901 Digital Camera and Computer System.
- b. An uptake probe system, scaler and well scintillation detector such as the Picker "Thyrodyne". All NaI crystals will be 2" diameter or greater.
- c. At least one G-M survey meter with high sensitivity range of the order of 0.5 mR/hr. F.S. and low sensitivity range to 50 mR/hr. F.S. It is noted that any patients at the Geriatric Center requiring I-131 therapy for thyroid cancer will be referred to the Medical College of PA and admitted there. It is again noted that there will be no use made of Mo-99/Tc-99m generators in the Philadelphia Geriatric Center facility.
- d. A capintec Dose calibrator with at least two Type E standard sources for daily accuracy and reproducibility checks (Cobalt 57, about 5 mCi. and Ba-133, about 200 uCi.)

4) Extension, Lic. #37-02562-01 to Cover Operations at Phila. Geriatric Ctr. (Cont.)

Equipment Listing (Cont.)

- e. "L" shield with lead glass visor, assorted lead bricks as required to create shielded storage areas, syringe shields, shielded containers and hot waste receptacles, brain phantom, bar phantom, flood source, assorted glassware, crash cart, etc., as required.

Arrangement planned for major components in the list above is shown on the enclosed laboratory drawing. The Commission is assured that measurements of stray radiation levels in adjacent unrestricted laboratory environs will be an important part of initial site renovation and of the on-going safety program.

In summary, an extension of MCP Lic. #37-02562-01 covering imaging and other diagnostic operations at the Philadelphia Geriatric Center is requested. All pertinent aspects of the MCP radiation safety program will be carried over to the program at the Geriatric Center, which will be run by MCP nuclear medicine laboratory personnel under the direction of the Radiation Safety Office of that institution and in accordance with rulings of the Radiation Safety Committee. There will be no thyroid therapy procedures and no use of generators at the Geriatric Center.

In event additional information is required in order to review properly this application, it is suggested that Mr. Wayne A. Meyers, the Radiation Safety Officer, be contacted. During the normal workday - [215] 842-6588.

Very truly yours,

Gerard H. Warner

Associate Administrator

Encls: License Amendment Fee

Sketch, Nuclear Medicine Facility

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|-------------------|---------------------|
| Log | May 19 ^I |
| Remitter | |
| Check No. | H 039380 |
| Amount | 8120 |
| Fee Category | 7C |
| Type of Fee | AMO |
| Date Check Rec'd. | 5/24/88 |
| Date Completed | 5/24/88 |
| By: | S. Kimberley |

108907

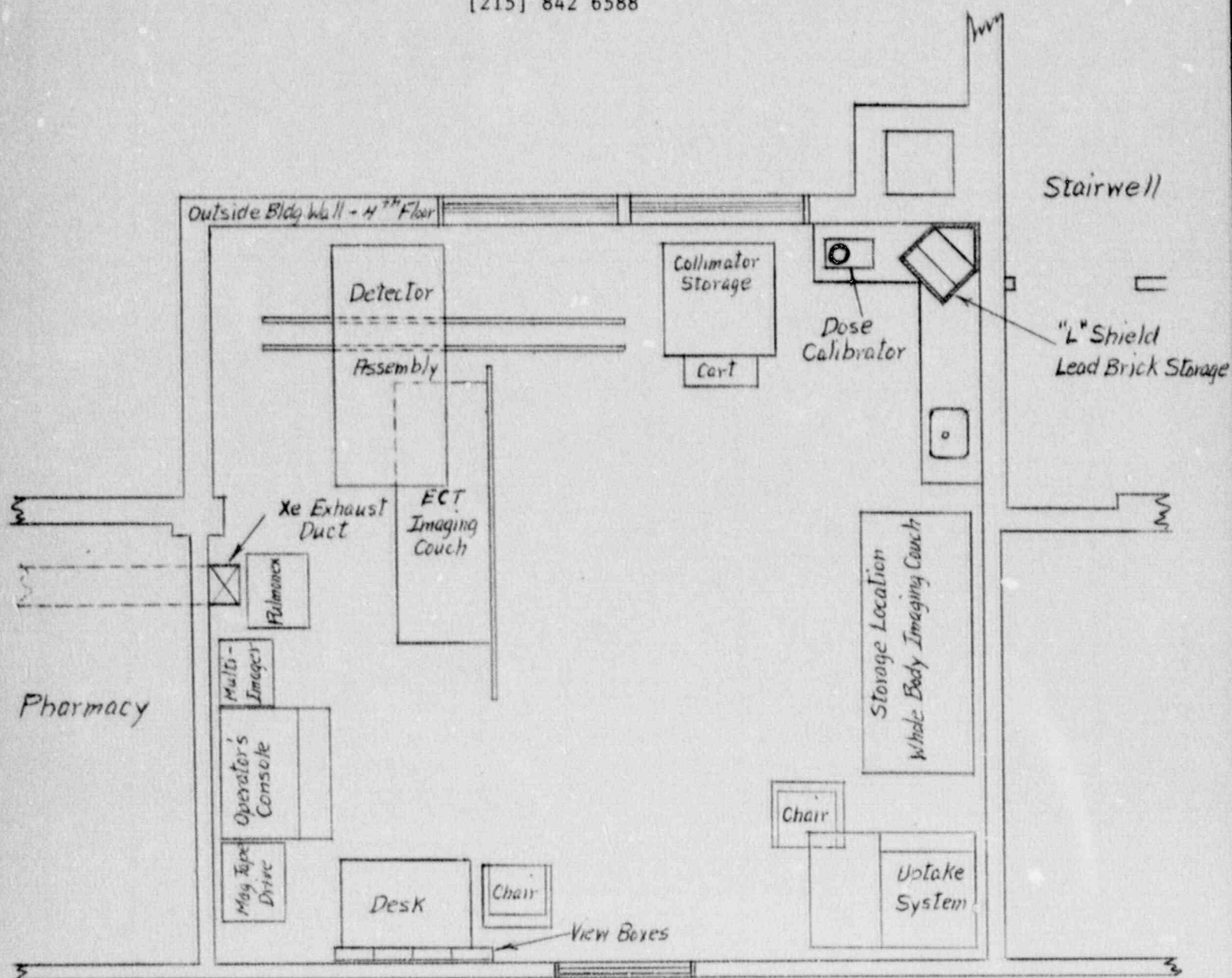
PROPOSED NUCLEAR MEDICINE LABORATORY - PHILADELPHIA GERIATRIC CENTER

FRIEDMAN BUILDING, 4th FLOOR - 5301 OLD YORK ROAD, PHILADELPHIA, PA.

This drawing is provided in support of Item 4 of the attached amendment request wherein authorization is asked for operation of a nuclear medicine laboratory by personnel of the Medical College of PA. and Hospital, under their License #37-02562-01. Questions regarding this proposed facility or the instrumentation to be contained therein may be addressed to the Radiation Safety Officer of the Medical College of PA. and Hospital:

Wayne A. Meyers

[215] 842 6588



Scale: $\frac{1}{4}'' \approx 1'0''$

Bldg. Corridor

"OFFICIAL RECORD COPY" **ML10**

108907

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 02120
STATUS CODE: 0
FEE CATEGORY: 7C
EXP. DATE: 19890228
FEE COMMENTS: CODE_23

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: HOSP. OF THE MEDICAL COLLEGE OF PA
RECEIVED DATE: 880516
DOCKET NO: 3003022
CONTROL NO.: 108907
LICENSE NO.: 37-02562-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: 120.00
CHECK NO.: H 039380

3. COMMENTS

SIGNED BP
DATE 5/19/88

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT: 7C \$120

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR: Code 23
AMENDMENT _____
RENEWAL _____
LICENSE _____

3. OTHER _____

SIGNED S. Kimberley
DATE 5/24/88