LAUREL DIAGNOSTIC CENTER, INC.
LAUREL PROFESSIONAL BUILDING
109 EAST LAUREL ROAD
STRATFORD, N. J. 08084

627-8844

February 20, 1985

U.S. Nuclear Regulatory Commisson
Region I
631 Park Avenue
King of Prussia, PA 19406

RE: Amendment Request,
#29-21382-01

Gentlemen:

By this letter we seek amendment of NRC License #29-21382-01 in the following matters:

1. Include Pouran Sepehri Zekavat, M.D. as an individual user.

   Dr. Zekavat is licensed to practice medicine in the State of New jersey (MA22822) and is named as an individual user on NRC lic. #37-02562-01 issued to the Medical College of Pennsylvania & Hospital, Philadelphia, PA. She is listed on that document for Groups I,II & III, Xenon-133 and invitro studies. Dr. Zekavat is also named on Pennsylvania State Liscence PA212 as a user of accelerator produced radionuclides in diagnostic imaging procedures.

2. Physics support in matters pertaining to radiation safety and to calibration of instruments, in addition to being provided by the Nuclear Pharmacy, Phila., PA, may also be provided by Wayne A. Meyers, M.S. Mr. Meyers' qualifications relating to calibration of instruments and leak testing procedures are filled with the Commission under his NRC License #37-10815-01. Mr. Meyers is also named as Radiation Safety Officer of the Medical College of Pennsylvania and Hospital under the NRC License named in (1) above as well as under their limited broadscope license #37-07438-15.

On the matter of a previous amendment request noting our intent to transfer nuclear medicine activities from a basement suite to the first floor of the above address, I am enclosing a survey report by Mr. Meyers, who performed the required work for us. We are anxious to commence working again in this basement suite and would appreciate your comments on this report at your earliest convenience.

In accordance with requirements of 10 CFR 170.31 (7B), we are enclosing a check for $120.00 to cover your review of this amendment request.

Sincerely,

Bentley A. Hollander, M.D.

BAH:jh
enc. Survey Report
Check

WAYNE A. MEYERS, M. S.
Radiological Physicist
8306 STENTON AVENUE
PHILADELPHIA, PA. 19118
(215) 247-0438

Bentley A. Hollander, M.D.
Laurel Radiology & Diagnostic Ctr.
109 E. Laurel Road
Stratford, New Jersey 08084

February 19, 1985

Re: Nuclear Medicine Laboratory
Survey, Basement, 2/15/85

Dear Dr. Hollander:

This is in reference to a radiation area survey with wipes, performed of a three room basement suite at the above address. This suite had been formerly employed as a nuclear medicine hot lab and imaging area under your licenses NRC #29-21382-01 and NJSL-20266. My field work was accomplished on February 15, 1985, some weeks after removal of all radioactive nuclides and equipment from this area.

An initial area survey was undertaken of the empty rooms with a Ludlum Model 12 count rate meter with a lead shielded 1" NaI scintillation probe. Careful scans were made of the floors within the hot lab and imaging room as well as in the waiting room and an adjacent film file area. Especial attention was paid to the sink and drain within the hot lab as well as to work surfaces and the cabinets situated above and beneath these surfaces. Normal background reading for this particular instrumentation, with the light lead shielding in place to add directionality, is about 500 C/Min. and during this work no count rates in excess of this value were obtained over any sustained period at any location monitored.

Forty wipes were taken with these areas for the purpose of detecting presence of removable contamination. These were Watman filter discs moistened slightly with water. In addition, several swab sticks were employed to sample from fairly deep within the hot lab drain, despite lack of any indication of measurable gamma radiation from this pipe. An enclosed plan view drawing of the laboratory suite shows the location of all wipes which, for the most part, were taken of randomly selected areas each approximately 100 $Cm.^2$.

All wipes, after placement into plastic counting vials, were taken to my facility and later assayed in a 3" NaI well scintillation detector using a Baird-Atomic Mod. 530 scaler-spectrometer. Sensitivity of this instrumentation is regularly confirmed through use of NEN rod standards (with certificates of content) of Cobalt 57, Barium 133, Cesium 137 and Iodine-129; this latter calibrated in terms of equivalent microcuries of Iodine-125. A general description of the methods employed in assaying wipes and in determination of microcuries (or dpm) removed, based on counting system cpm rates has been placed on file with the Nuclear Regulatory Commission along with my license #37-10815-01.

Survey Results and Summary

1) Area survey of this former nuclear medicine laboratory with sensitive portable instrumentation revealed no regions in which sustained readings in excess of normal background were obtained. The instrumentation is sufficiently sensitive to detect sub-microcurie quantities of any of the gamma emitting nuclides which had been in regular use in this laboratory, at the distance and scanning speed employed in this survey.

2) Each of the 40 wipes was assayed for a period of two minutes, using a wide energy window (50 to 720 keV) and another two minutes in a low energy window (25 to 50 keV). Those few yielding net count rates more than two standard deviations from the group means were recounted for an additional 5 minutes. On final assay, none of the wipes yielded net count rates in excess of 50 C/Min. and given the sensitivity of the instrumentation employed, this maximum rate is very much less than the 1000 dpm removable which is considered acceptable as surface contamination.

There is no evidence, based on results of this survey, that transformation of this restricted basement area into an unrestricted one will in any way pose danger to its new inhabitants. You are reminded nonetheless, that such action must await a final OK from the Nuclear Regulatory Commission, to whom this report should be directed.

Very truly yours,

Wayne A. Meyers

Wayne A. Meyers

Encl: Survey Drawing, with notes

Bentley A. Hollander, M.D.
Laurel Radiology & Diagnostic Ctr.
109 E. Laurel Road
Stratford, New Jersey 08084

Survey Date: February 15, 1985

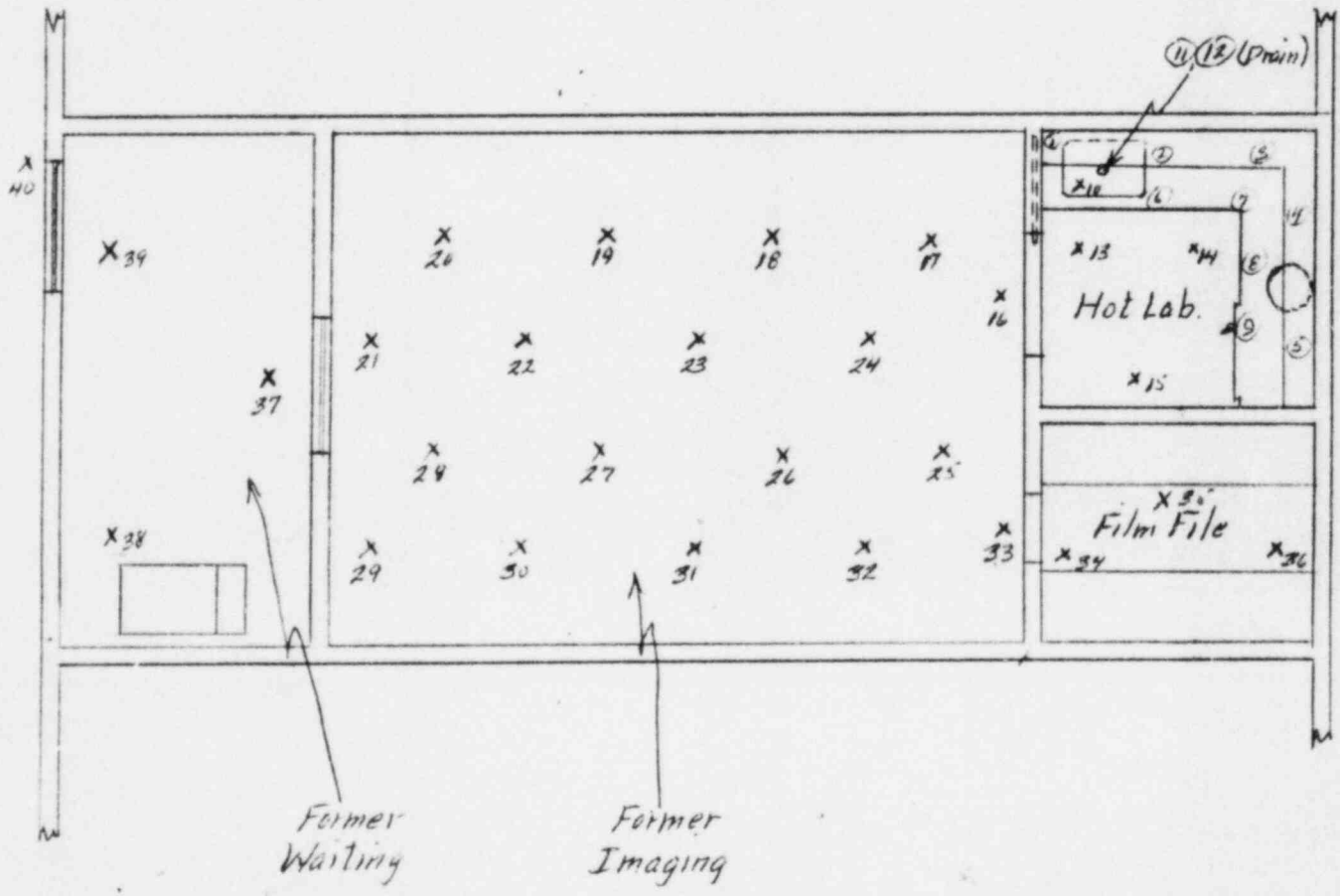
STRAY RADIATION AREA SURVEY & WIPES FOR REMOVABLE CONTAMINATION, FORMER NUCLEAR MEDICINE BASEMENT SUITE, ABOVE ADDRESS

Survey Notes:

(1) Area survey readings made with Ludlum Mod. 12, 1" NaI scintillation probe, lead shielded for directionality and background reduction.

(2) Wipes for removable contamination, designated 1 through 40 on drawing below, were with Watman filter discs, slightly moistened with water. See attached survey report for further details and assay procedure employed.

(3) None of the results of this survey would contraindicate safe change in status of this former nuclear medicine facility from "restricted" to "unrestricted".



Wayne A. Meyers