



Memorial Hospital

June 13, 1985

Nuclear Regulatory Commission  
Region III  
Material Licensing Section  
799 Roosevelt Road  
Glen Ellyn, IL 60137

Attn: Bruce Mallett, Ph.D.

Applicant	June 25
Check No.	50779 D120 CR-10
Amount / Fee Category	EX 74
Type of Fee	and
Date Check Rec'd	6/27/85
Received by	CP

Dear Dr. Mallett:

Please amend our NRC radioactive material license number 13-12371-01 as follows:

1. Please change the name of our radiation safety officer to William Fortner, M.D. Dr. Fortner is named as an authorized user on our license. His telephone number is 812-948-7409.

2. Please indicate that leak tests of our sealed dose calibrator reference sources may be performed by:

Nuclear Pharmacy, Inc.  
16141 Leadwell Street  
Van Nuys, Ca 91406

California radioactive material license number 3822-70,  
or by

Siemens Gammasonics, Inc.  
Health Physics Services  
2000 Nuclear Drive  
Des Plaines, IL 60018

NRC license number 12-00369-01,

or by other qualified services licensed by the NRC to perform  
leak tests of sealed sources.

3. We request authorization to relocate the nuclear medicine department at our hospital. A diagram of the new department is enclosed with the adjacent structures identified. This area is located on the first level of a four-story structure.

Radiopharmaceuticals are provided for our nuclear medicine department by Nuclear Pharmacy, Inc, 832 6th Street Unit B, Louisville, Ky 40203. This material will be stored in the lead shields provided by NPI in our storage room. This area will also contain a lead-shielded area which will be maintained for the storage of our dose calibrator reference sources.

170.11(a)(9) #13  
FEE EXEMPT

JUN 24 1985

REGION III

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CONTROL NO. 7-9213

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NRC, Region III  
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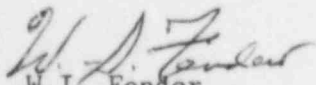
All used and unused radiopharmaceutical products will be returned to NPI for decay and storage. A lead-shielded area will be maintained in the storage room for ancillary waste that results from injections of radiopharmaceuticals (gloves, swabs, etc.) and for any other contaminated materials. These materials will be stored for decay until radiation levels, as measured with a low-level survey meter and with all shielding removed, have reached background levels. All radiation labels will be removed or obliterated and the waste will be disposed of in normal trash.

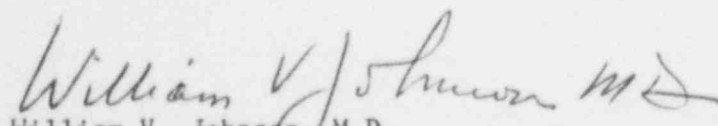
Information pertinent to the ventilation system is contained in the diagram. However, at this time we are not requesting authorization for the use of radioactive gas.

We wish to be able to relocate our department within 45-60 days, pending approval of this amendment request. A close-out contamination survey of the area presently occupied by our nuclear medicine department will be conducted prior to releasing the area for unrestricted use.

Thank you for your time in the consideration of this amendment request. A check for \$120.00 is enclosed for the amendment processing fee.

Sincerely,

  
W.I. Fender  
Executive Director

  
William V. Johnson, M.D.  
Radiation Safety Officer

Enclosures

RECEIVED  
85 JUN 27 P3:01  
U.S. NRC  
IN. FEE MGMT. BRANCH

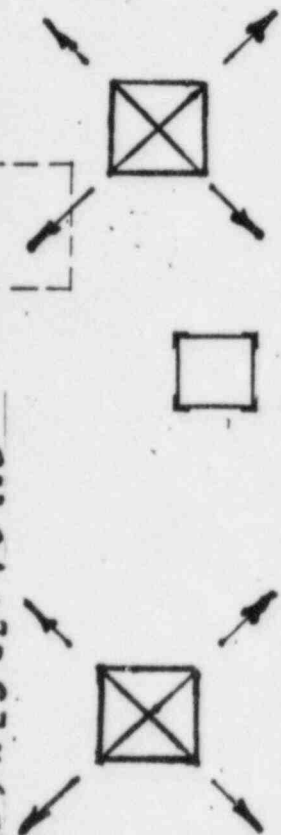
SUPERVISOR'S  
OFFICE

(161)

EXHAUST

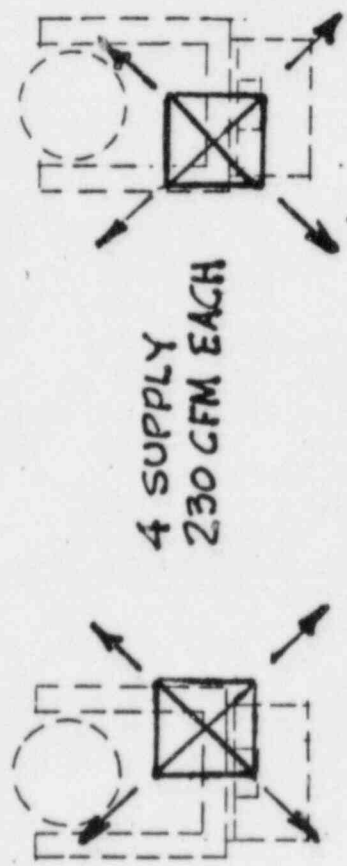
23'9" x 23'3 1/2" x 9'0" 216

1060 CFM



NUCLEAR MEDICINE (157)

4 SUPPLY  
230 CFM EACH



PHYSICAL  
MEDICINE DEPT.

Room Volume = 4984 FT.<sup>3</sup>

EXHAUST = 1110 FT.<sup>3</sup>/MIN.

AIR EXCHANGES =  $1110 \frac{\text{FT.}^3}{\text{MIN.}} \times \frac{60 \text{ MIN.}}{\text{HR.}} \times \frac{1}{4984 \text{ FT.}^3} = 13.4 \text{ PER HOUR}$

STORAGE ROOM

(158)

50 CFM

3'6" x 9'0"

50 CFM

EXHAUST

STAIR

NOTE: EXHAUST FAN IS ON  
4TH FLOOR ROOF. NO INTAKE  
WITHIN 20'. EXHAUST FAN  
IS CONSTANT SPEED.  
NUCLEAR MEDICINE ROOM  
AND EXHAUST DUCT ARE  
UNDER NEGATIVE  
PRESSURE. NO  
RECIRCULATED AIR.



1850 State Street  
New Albany  
Indiana 47150  
(812) 944-7701 Ext. 387  
Charles R. Hinkleberry,  
Consulting Engineer

Charles R. Hinkleberry, P.E. 1/7/84