

# Trinity Lutheran Hospital

3030 Baltimore Avenue  
Kansas City, Missouri 64108  
(816) 753-4300

June 18, 1987

U. S. Nuclear Regulatory Commission  
Regional Licensing Section  
799 Roosevelt Road  
Glen Ellyn, Ill. 60137

Re: License #24-00624-02

Gentlemen:

We wish to amend our Radioactive Materials license referenced above, issued to Trinity Lutheran Hospital, 3030 Baltimore, Kansas City, Missouri, as indicated below:

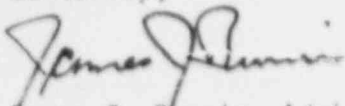
We are in the process of preparing to remodel the Nuclear Medicine Department. A new Toshiba camera has been ordered. Prior to initiating the remodeling, we wish to amend our license to allow the use of Xenon 133 in our second imaging room. There will be no changes in the safety precautions or procedures utilized for Xenon 133. The Siemens room has 110 cubic feet/minute of supply air and 130 cubic feet/minute of exhaust air. This results in a negative pressure of 20 cubic feet/minute. The air from Nuclear Medicine is exhausted through a roof air-handling unit. The exhaust rate at the roof is 5,375 cubic feet/minute. There have been no changes in the number of patients or activity per patient utilized for Xenon 133. In our license application, we calculated that 16.7 cubic feet/minute of exhaust air would be needed to keep the air in the Nuclear room to within the maximum permissible concentrations.

The air flow in the Siemens room is more than adequate to maintain this rate. From Appendix M, it can be seen that the exhaust rate (5,375 cubic feet/minute) is more than adequate to reduce the concentration of Xenon 133 to well below the MPC values for an uncontrolled area.

The exhaust system on the roof of the hospital is approximately 50 feet from the nearest air intake vent. As a result, this should not create any problems for recirculating air within the hospital.

Should there be any questions concerning this request, please do not hesitate to call.

Sincerely,



James J. Burris, Administrative Director  
Radiology Services

jjb/bw

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REG3 LIC30  
24-00624-02 PDR

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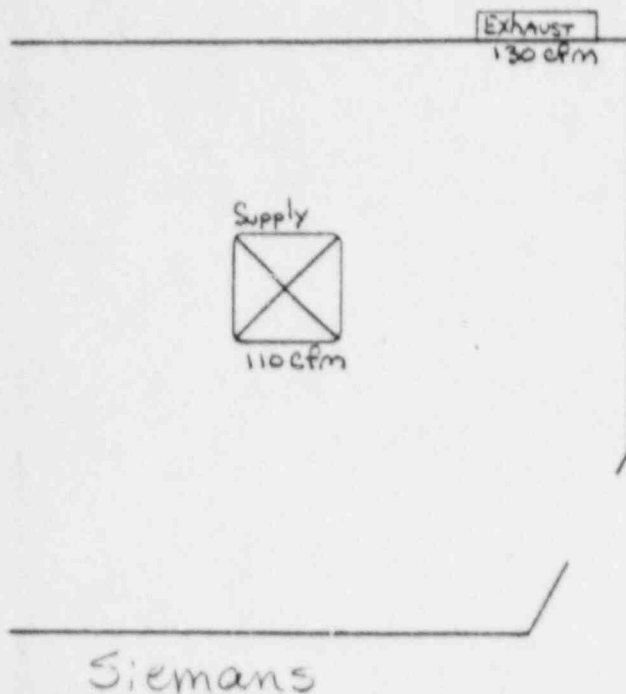
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# Trinity Lutheran Hospital

Thirty-first and Wyandotte Streets  
Kansas City, Missouri 64108  
(816) 753-4600



## NUCLEAR MEDICINE Room

Air is supplied by #7 Air Handling Unit which supplies the X-RAY AREA. The exhaust is ducted to the atmosphere by #16 General Exhaust Fan which is located on the East Building Roof.

TOTAL SUPPLY 110 cfm

TOTAL EXHAUST 130 cfm

NEGATIVE 20 cfm

DATE: MAY 13, 1987

ENGINEER: Frank Buxus