

Flint Nuclear Diagnostic Center

3320 Flushing Road
Flint, Michigan 48504
Telephone 232-3790

May 7, 1987

UNITED STATES NUCLEAR REGULATORY COMMISSION
Region III, Office of Licensing
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Re: Amendment to NRC License No. 21-15723-01

Dear Sir/Madam:

Please amend NRC license #21-15723-01 to allow our other imaging room to be used for Xe-133 lung studies in addition to the present imaging room (see facility diagram). All existing license commitments will apply. In addition, we are aware of the new 10CFR35 regulations that apply to Xe-133.

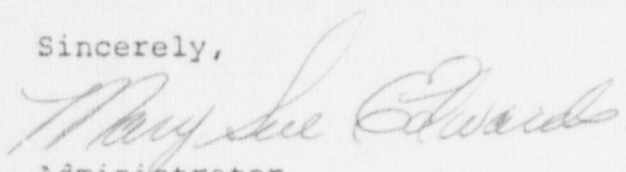
The room is under negative pressure (-465 cfm) and the exhaust rate is 800 cfm. The fan will remain on for the 40 hour work week. This will provide 32,000 cfm of diluent air per 40 hour week or 1,920,000 cfm of diluent air. Given the MPC to restricted areas of 3×10^{-7} uCi/cm³ and assuming 20% leakage from our administration system, 81.6 mCi may be used in this room per week without violating the MPC. Per 10CFR35 and 10CFR20 if usage in this room increases, the fan will be left on for a time greater than 40 hours necessary to maintain the MPC. Note that air is not recirculated nor released within 30 feet of an input duct. Atmospheric dilution has not been applied and will aid additional dilution.

Note that the airflow in our "Hot" lab has been modified to provide a negative pressure of 100 cfm to that room and an additional 210 cfm of exhaust air. Also attached is the "Supply and Exhaust Systems Analysis" of the "Hot" lab and the second imaging room.

Also, we would like to add Albert E. Neuffer, M.D. and Lakshmi Gullapalli, M.D. to our license as authorized users. They are currently authorized users on NRC License Nos. 21-15714-01 and 21-17974-01, respectively,

If you have any questions concerning this matter, please contact us. A check for the \$120.00 amendment fee is enclosed.

Sincerely,



Administrator
Flint Nuclear Diagnostic Center

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21-15723-01

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Log	May 20-TH
Remitter	
Check No.	11300
Amount	\$120
Fee Category	7c
Type of Fee	Amend
Date Check Rec'd.	5/18/87
Date Completed	5/19/87
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