



MS 16
P2

February 20, 1987

John E. Glenn, PhD. Chief
Nuclear Materials Safety Section B
Division of Radiation Safety & Safeguards
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

License No. 20-13404-01
Docket No. 030-01962
Control No. 119732

Dear Doctor Glenn:

Thank you for your letter of January 29, 1987 regarding our license renewal. The following comments are offered after discussion with J. Piccone PhD by N. Gaeta:

1. The Nuclear Medicine department has a Radx Xenon Trap Monitor at the exhaust of the Pulmonex System Trap. Additionally as required by 10CFR 35.205 the charcoal trap system shall be checked quarterly. This shall be done using Xe-133 in an inlet plastic bag, passing it through the trap and connecting the inlet and exhaust bags and the gamma camera. The form used is enclosed. Air flows in the department shall be measured semi-annually.
2. As requested under Item 6b the hospital requests authorization to purchase a Lunar Model GD series, Novo system in Model 812.007 series, or Norland unit in the Norland N1077 series. It is understood that these can use any NRC approved Gd-153 sealed source. The request is for two (2) sources each 1.5 curies.

The hospital has contracted Neil A. Gaeta or Thomas G. Martin, CHP's to provide radiation protection service. Either shall install these sources following the manufactures specifications and instructions.

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Hospital Road
Leominster, MA 01453
(617) 537-4811

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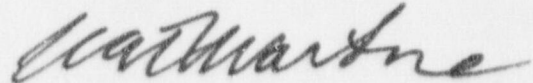
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• The sources shall be leak tested each six (6) months under License No. 20-20743-01 (8/89). Used sources shall be returned to the manufacturer for exchange for new sources, following this manufacturers specifications and instructions.

Please call if there are any questions and I shall give them immediate attention.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Carl Wathne".

Carl Wathne
President/CEO

cc: Nuclear Medicine File
N. Gaeta, Consultant H.P.

Xenon-133 Trap Test

Hospital _____
Date _____

Background (Inlet Bag) Xe-133 Region = _____ cpm

Inlet Bag (Start of Test) _____ cpm

Inlet Bag (End of Test) _____ cpm

Exhaust Bag (End of Test) _____ cpm

$$\text{Efficiency of Xe-133 Trap} = \frac{\text{Inlet (Net)} - \text{Exhaust (Net)}}{\text{Inlet (Net)}} \times 100$$

Comments:

Neil A. Gaeta