



THE
LUTHERAN HOSPITAL
OF INDIANA, INC.

RED/DCB

January 2, 1991

Mr. William H. Schultz, Chief
Nuclear Materials Safety, Section 1
Nuclear Regulatory Commission
Region III
799 Rousevelt road
Glen Ellyn, IL 60137

Dear Mr. Schultz,

We are in receipt of your letter dated December 7, 1990, making reference to a routine safety inspection conducted at our hospital and citing certain violations. Our response to your notice of violation follows.

License No. 13-01535-01

1. All technologists have been instructed to 10CFR 35.315 (a)(7). After a therapy patient has been released, the room will be surveyed and wipe tested. Before this room is assigned to another patient, it will be determined that the level of removable contamination is less than 200dpm per 100 square centimeters. We have not had any patients for this treatment since the inspection, but have altered our procedure to reflect this change.
2. Our dose calibrator linearity procedure has been amended to include a reading at the 10 microcurie range. This will be done by counting a 10 microcurie Tc99m source using a Lineator tube system. An initial factor has been determined with which to compare to future readings for percent ratio. The reading will be expected to fall within +/- 5%. All technologists have been instructed as to this procedure. This change is effective as of 12-1-1990.
3. Our procedure for Area Surveys has been amended to include a weekly wipe test of the elution, preparation and administration areas of our hot lab to detect any removable contamination. In keeping with 10CFR 35.7, the wipes will be counted in a well system sufficiently sensitive to detect 2,000dpm/100 square centimeters. We will use the recommended action levels of 2,000dpm for unrestricted areas and 20,000dpm for restricted areas. All Technologists have been instructed as to this procedure. This change is effective 12-1-1990.
4. Although reviewed with our consulting physicist, the

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records for dose calibrator accuracy and linearity dated September 4, 1990; leak test results dated October, 1990; and sealed source inventory of September, 1990, were not signed by our Radiation Safety Officer. All future records concerning these tests will indeed be signed by the Radiation Safety Officer as per 10CFR 35.5 and 10CFR 35.59 as well as being reviewed by our consulting physicist. This change is effective 12-1-1990.

I trust that the above information will be sufficient to show the corrective steps taken to correct these violations and avoid further violations. In that all the above actions are currently in force, I am hopeful that we meet full compliance with the regulations of your Commission.

Sincerely,



William W. Wissman
Administrator