



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
729 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137



MAY 28 1981

Veterans Administration Hospital
ATTN: James H. Stevens
Director
Southfield and Outer Drive
Allen Park, MI 48101

License No. 21-04234-01
License No. 21-04234-04

Gentlemen:

This refers to the routine safety inspection conducted by Ms. E. Matson and Mr. J. Mullauer of this office on May 13, 1981, of activities at Veterans Administration Hospital authorized by NRC Byproduct Material Licenses No. 21-04234-01 and No. 21-04234-04 and to the discussion of our findings with Mr. F. Smith and other members of your staff at the conclusion of the inspection.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and with the conditions of your license. The inspection consisted of a selective examination of procedures and representative records, observations, independent measurements, and interviews with personnel.

During this inspection, certain of your activities appeared to be in non-compliance with NRC requirements, as specified in enclosed Appendix A. A written response, submitted under oath or affirmation, is required.

This inspection also included a measurement of the output of your teletherapy equipment. Our measurement was made using a Victoreen Model 570 Condenser R-Meter with Model 621 chamber, calibrated by the National Bureau of Standards Laboratory. The source-to-chamber distance was 80 centimeters and the field size used was 10 by 10 centimeters. After applying standard correction factors for temperature, pressure, attenuation, inverse square, time error, and roentgen-to-rad conversion, our

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measurement of the output of your teletherapy equipment was 127.32 rads per minute at the point of maximum buildup in a mini-phantom. The most recent monthly decay chart for your teletherapy equipment, calculated for May 1, 1981, reported a measured output for the same exposure parameters of 131.8 rads per minute. Applying a correction factor to account for 13 days decay, the value calculated from your May 1, 1981 output verification becomes 131.18 rads per minute.

Based on the close agreement in measured output values, we feel the actual output of your teletherapy equipment to be within established guidelines of ± 5 percent.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

D. J. Sreniawski, Chief
Materials Radiation Protection
Section 2

Enclosure: Appendix A,
Notice of Violation

cc w/encl:
DMB/Document Control Desk (RIDS)

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Muller/db
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Matson

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Sreniawski
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