

PDR



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

MAY 11 1981

St. Joseph Hospital
ATTN: Mr. Joseph Mohr
Assistant Administrator
Professional and Ancillary
Services
2900 North Lake Shore Drive
Chicago, Illinois 60657

License No. 12-03832-02
License No. 12-03832-03

Gentlemen:

This refers to the routine safety inspection conducted by Mr. R. E. Burgin and Ms. E. Matson of this office on April 22, 1981, of activities authorized by NRC Byproduct Material Licenses No. 12-03832-02 and No. 12-03832-03 and to the discussion of our findings with you and Mr. L. Ahmed, RSO, 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.

In addition to the above areas, the inspectors reviewed corrective actions taken in response to the items of noncompliance identified during our November 1977, inspection. We have no further questions in regard to these matters.

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 ten by ten centimeters. After applying standard correction factors for temperature, pressure, timer error, and roentgen-to-rad conversion, our measurement of the output of your teletherapy equipment was 124.5 rads per minute in air. The most recent dose verification of your teletherapy equipment, calculated for April 15, 1981, reported a measured output for the same exposure



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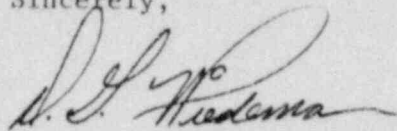
parameters of 130.8 rads per minute. Applying a correction factor to account for seven days decay, the value calculated from the April 15, 1981, verification becomes 130.47 rads per minute.

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

During this inspection, no items of noncompliance were identified for License No. 12-03832-03; however, for License No. 12-03832-02; certain of your activities appeared to be in noncompliance with NRC requirements, as specified in enclosed Appendix A. A written response, submitted under oath or affirmation, is required.

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

Sincerely,



D. G. Wiedeman, Acting Chief
Materials Radiation Protection
Section 1

Enclosure: Appendix A,
Notice of Violation

cc w/encl:
Central Files
Reproduction Unit NRC 20b
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