

SEP 24 1982

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Deaconess Hospital
ATTN: Mr. Richard P. Ellerbrake
President
6150 Oakland Avenue
St. Louis, MO 63139

License No. 24-00752-01
License No. 24-00752-03

Gentlemen:

This refers to the routine safety inspection conducted by Mr. J. L. Lynch of this office on September 16, 1982, of activities authorized by NRC Byproduct Material Licenses No. 24-00752-01 and No. 24-00752-03 and to the discussion of our findings with Ms. J. Abernathy 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.

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, attenuation, timer error, and roentgen-to-rad conversion, our measurement of the output of your teletherapy equipment was 50.56 rads per minute at the point of maximum buildup in a muscle miniphantom. The most recent spot check of your teletherapy equipment, conducted on August 9, 1982, reported a measured output for the same exposure parameters of 51.45 rads per minute. Applying a correction factor to account for 38 days decay, our measurement becomes 51.27 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.

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In addition to the above areas, the inspector examined actions described in your letter dated June 26, 1979, regarding apparent items of noncompliance found during our May 29, 1979, inspection. We have no further questions regarding these matters.

No items of noncompliance with NRC requirements were identified during the course of this inspection.

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

Sincerely,



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

cc: Karl Rethemeyer, Administrative
Director of Radiology
Richard Schulz, M.D., Radiation
Safety Officer
DMB/Document Control Desk (RIDS)

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JH
Lynch/sv
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RIII *D.G.*
Wiedeman
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