

OCT 13 1982

St. John's Regional Medical Center
ATTN: Mr. Jack Armstrong
Assistant Vice President
Professional Services
2727 McClelland Boulevard
Joplin, MO 64801

30-308 License No. 24-01090-02
30-12728 License No. 24-01090-03

Gentlemen:

This refers to the routine safety inspection conducted by Mr. D. R. Gibbons of this office on September 28-29, 1982, of activities authorized by NRC Byproduct Material Licenses No. 24-01090-02 and No. 24-01090-03 and to the discussion of our findings with you and selected 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, inverse square, backscatter, timer error, chamber factor, and roentgen-to-rad conversion, our measurement of the output of your teletherapy equipment was 94.23 rads per minute at the point of maximum buildup in a muscle phantom. The most recent monthly spot check of your teletherapy equipment, conducted on September 11, 1982, reported a measured output for the same exposure parameters of 91.56 rads per minute. Applying a correction factor to account for 18 days decay, the value calculated from the September 11, 1982, calibration becomes 90.96 rads per minute.

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2

OCT 13 1982

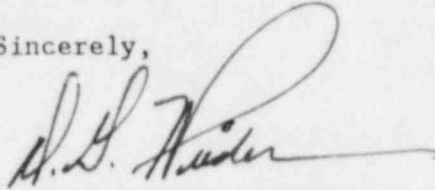
Based on the close agreement in measured output values, we feel the actual output of your teletherapy equipment to be within established guidelines of ± 5 percent.

In addition to the above areas, the inspector examined actions described in your letter dated October 27, 1978, regarding apparent items of noncompliance found during our September 14 and 15, 1978, 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: John M. Pacyniak, Ph.D.
Mr. Richard Evans, Director
Professional Services
DMB/Document Control Desk (RIDS)

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Gibbons/sv
10/9/82

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D.G.
Wiedeman
10/12/82