

DEC 6 1982

St. Joseph's Hospital
ATTN: Mr. Gary Mecklenburg
President
500 West Chambers Street
Milwaukee, WI 53210

License No. 48-00537-03 30-3406
License No. SNM-1401 70-1411
License No. 48-00537-04 30-0532

Gentlemen:

This refers to the routine safety inspection conducted by Messrs. J. R. Madera and D. R. Gibbons of this office on November 17, 1982, of activities authorized by NRC Byproduct Material Licenses No. 48-00537-03 and No. 48-00537-04 and Special Nuclear Material License No. SNM-1401 and to the discussion of our findings with Mr. Thomas L. Feurig and Mr. John E. Whitton 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, inverse square, timer error, and chamber factor, our measurement of the output of your AECL Eldorado-8 teletherapy equipment was 109.6 roentgens per minute in air. The most recent spot check of your teletherapy equipment, conducted on November 17, 1982, reported a measured output for the same exposure parameters of 110.2 roentgens per minute.

Our measurement of the output of your AECL Theratron 80 teletherapy equipment was 64.4 roentgens per minute in air at 80 centimeters. The most recent spot check of your teletherapy equipment, conducted on October 29, 1982, reported a measured output for the same exposure parameters of 65.57 roentgens per minute. Applying a correction factor to account for 18 days decay, your measurement becomes 65.14 roentgens per minute.

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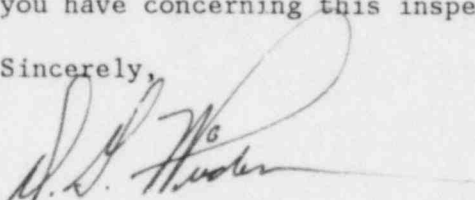
Based on the close agreement in measured output values, we feel the actual output of your teletherapy equipment to be within established guidelines of ± 5 percent.

During this inspection, no items of noncompliance were identified for License No. 48-00537-03 or SNM-1401; however, for License No. 48-00537-04, certain of your activities appeared to be in noncompliance with NRC requirements, as described in the enclosed Appendix. A written response is required.

The responses directed by this letter (and the accompanying Notice) are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

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

Sincerely,



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

Enclosure: Appendix,
Notice of Violation

cc w/encl:
John B. Whitton, Director of
Medical Physics
DMB/Document Control Desk (RIDS)

RIII
K.M.
Madera/jp
12/2/82

RIII
Gibbons

RIII
Wiedeman
12/4/82