

30-402  
30-2684

AUG 11 1982

Providence Hospital  
ATTN: S. Spendiarian, M.D.  
Radiation Safety Officer  
1912 Hayes Avenue  
Sandusky, OH 44870

License No. 34-01654-03  
License No. 34-01654-02

Gentlemen:

This refers to the routine safety inspection conducted by Mr. R. E. Burgin of this office on July 28, 1982, of activities authorized by NRC Byproduct Material Licenses No. 34-01654-03 and No. 34-01654-02 and to the discussion of our findings with you and 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 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 attenuation, inverse square, timer error, chamber correction factor, and roentgen-to-rad conversion, our measurement of the output of your teletherapy equipment was 77.32 rads per minute at the point of maximum buildup in a water miniphantom. The most recent monthly spot check of your teletherapy equipment, corrected to July 15, 1982, reported a measured output for the same exposure parameters of 78.9 rads per minute. Applying a correction factor to account for 13 days decay, the value calculated from the July 15, 1982 spot check becomes 78.53 rads 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  $\pm 5$  percent.

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. J. Sreniawski*

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

cc: Jerry Armstrong  
Technical Director  
For Radiology  
DMB/Document Control Desk (RIDS)

RIII  
2425/5  
Burgin/jp  
8/4/82

RIII  
*DS*  
Sreniawski  
8/10/82

*MS*  
~~RIII~~  
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