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APR 19 1985

Luther Hospital  
ATTN: Donald Johnson, Vice President  
Professional Services  
1221 Whipple Street  
Eau Claire, WI 54702

License No. 48-02122-04

Gentlemen:

This is in reference to a report dated March 15, 1985, signed by your physicist, J. Thomas Payne, Ph.D., describing the results of a radiation survey of your cobalt-60 teletherapy unit. In order to complete our evaluation of the report, it will be necessary for you to submit the following information:

1. Although you indicate that certain safety systems operate "properly," you have not described the tests that were conducted to ensure their proper operation. Please describe the tests that were conducted to ensure proper operation of:
  - a. Electrical interlocks on the teletherapy treatment room doors. Your tests should be sufficient to demonstrate that the interlock system operates in accordance with the requirements of Condition 17 of your license.
  - b. Teletherapy source "on-off" indicators, electrical and mechanical, both at the source housing and at the teletherapy machine control panel. You should use a method of cross-checking these indicators, such as using a radiation detection instrument, to ensure that the indicators correspond to the actual condition of the source.
  - c. Electrical and/or mechanical stops installed for the purpose of limiting use of the primary beam of radiation. Your tests should be sufficient to show that the stops limit use of the primary beam in the manner described in March 25, 1985 (with attachments).
  - d. Teletherapy treatment timing device. In addition to demonstrating timer accuracy, your tests should be sufficient to show that the source returns to the "off" position at the end of the preset time and that the source will not return to the "on" position until the timer is reset.
2. Please describe the phantom that was used for the survey of radiation levels in adjacent areas, including the material of which it is made and its size.

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If you have any questions or require clarification on any of the information stated above, you may contact us at (312) 790-5625.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 30 days, and refer to Control Number 78629.

Sincerely,

Original Signed By  
Patricia J. Whiston  
Materials Licensing Section

RMA  
Whiston/jl  
4/19/85