

JUL 2 - 1985

Sinai Hospital of Detroit  
Radiation Therapy Department  
ATTN: Joseph Mantel, Ph.D.  
Chief, Radiation Physics Section  
6767 West Outer Drive  
Detroit, MI 48235

Re: Letter Dated May 15, 1985 With Enclosed Teletherapy Survey Report

Please provide the following additional information regarding the survey of your teletherapy unit:

1. Specify the name and address of the person who performed the survey.
2. The report indicates that two instruments (i.e., Victoreen Model 493 and Berthold Model RATO/F) were used to make the measurements reported in this survey. The instrumentation used to measure the output of your new source was not listed. Please:
  - a. Specify the manufacturer's name and model number of the instruments used to measure the source output.
  - b. Specify the date on which this dosimetry system was last calibrated prior to use in this survey.
  - c. Specify whether the dosimetry system was calibrated by the National Bureau of Standards or by a Regional Calibration Laboratory (RCL). If calibrated by an RCL, please specify which one. The information you submit should be sufficient to show compliance with 10 CFR 35.23 (enclosed).
3. 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.

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- 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 "the radiation survey around the cobalt-60 teletherapy room" submitted with your May 15, 1985 letter.
- 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.

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 78981.

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

Sincerely,

Original Signed By  
Patricia J. Whiston  
Materials Licensing Section

Enclosure: 10 CFR Part 35

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