

St. Peter's Community Hospital

2475 Broadway, Helena, Montana 59601 • Telephone 406/442-2480

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CCCO

January 5, 1983

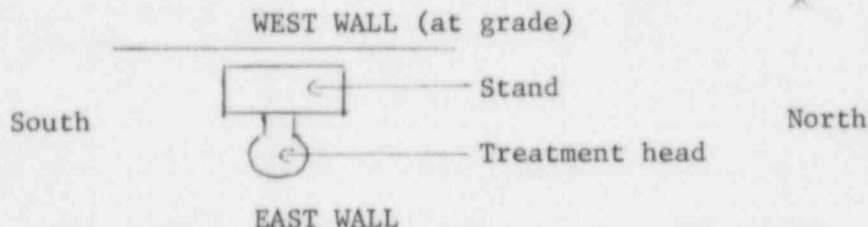
United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Frank Davis
Control Number: 09893

Dear Mr. Davis:

Please find the following answers submitted to your questions in a letter dated September 30, 1982.

1. The CO^{60} teletherapy machine is installed so that the mounting stand is in front of the west wall, the head is nearest the east wall. An observer facing the treatment head and rotating the treatment head clockwise will point the collimator toward the south wall and rotating the head counterclockwise points the collimator toward the south wall.



2. The machine can only be turned on in the following orientations

- a. Vertical ↑
South wall — Treatment head — North (at grade)
- b. Treatment Head
98° Counterclockwise
South wall — Treatment Head — North wall
- c. Treatment Head
20° Counterclockwise
South wall — Treatment Head

Exposure rate on south wall with beam directed 20° counterclockwise
← .2 mr/hr.

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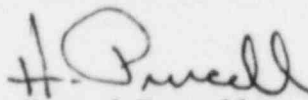
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3. The treatment unit is used at an SSD of 80 cm. to obtain larger field sizes and a better per cent depth dose and consequently all the calibration is made to 80 cm.
4. The teletherapy interlocks are installed so that when the door is opened the source is retracted. The source may be turned on again only if the reset button on the operating console is pushed. The primalert is used as an indication of source on. The source is turned on and the door opened. The source returns to the off position and primalert indicates that the source is in the off position. An attempt is made to turn the source on without pushing the reset button and the source will not return to the on position. The reset button is pushed and the source is turned on and the primalert indicates the source is on.
5. The source on-off indicators on the treatment head are 1) a mechanical rod that slides out of the source head when the source is in the on position and a red light on the source head. The source on-off indicators on the control panel are a beam on (red light) and a beam off (green light) on the control panel. Above the treatment room door is a two-stage light, green for source off and red for source on.
6. The machine does not have an integral beam stopper. It cannot be aimed at the ceiling.


If there is any additional information needed, please do not hesitate to contact me.

Sincerely,

Prepared by Rod Wimmer, Ph.D.


Howard Purcell
Administrator

HP:pd


Duane Durkee
Department Head Radiology