

DEPARTMENT OF THE AIR FORCE
DAVID GRANT USAF MEDICAL CENTER (MAC)
TRAVIS AIR FORCE BASE, CALIFORNIA 94535



REPLY TO
ATTN OF: SGHRT

26 July 1984

SUBJECT: Radiation Survey Report dated May 31, 1984 License #04-07840-02
NRC Control No. 17711

TO: US NRC (FCMLB:FAS)
Washington D.C. 20555

1. The following information is submitted to answer questions listed in your letter of July 2, 1984.

a. The Theratron 80 is a full rotational Cobalt therapy unit and can operate in fixed, rotational or arc modality when the primary beam is directed toward the beam stopper. When the primary beam is not directed toward the beam stopper, the unit has an interlock which allows it to operate in the fixed non rotational mode only.

b. When operating in the fixed mode and the primary beam not directed toward the beam stopper, then the unit has interlocks so that the unit will only be turned on when the unit is directed toward the floor or the east wall. (see atch 1)

c. During the survey, the intrlocks were checked by moving the primary beam off the beam stopper and trying to use the rotational or arc mode. The unit would not turn on indicating the interlock was operational. Then the unit was checked by putting the unit in fixed mode and checking the location where the unit would operate. The unit operated in areas indicated on atchl and would not operate in other areas.

d. The maximum readings with the unit in rotational mode are shown in atch2. Measurements were made with a 10x10 fiel with phantom in place.

e. When the unit is operated with the primary beam not directed toward the beam stopper, the measurements were made in the most adverse condition with the beam directed toward the east wall and the measurements made in the corner of the room.

2. Please contact me if any further clarification is required.

Bernard S. Tatera

Bernard S. Tatera, PhD
Medical Physicist

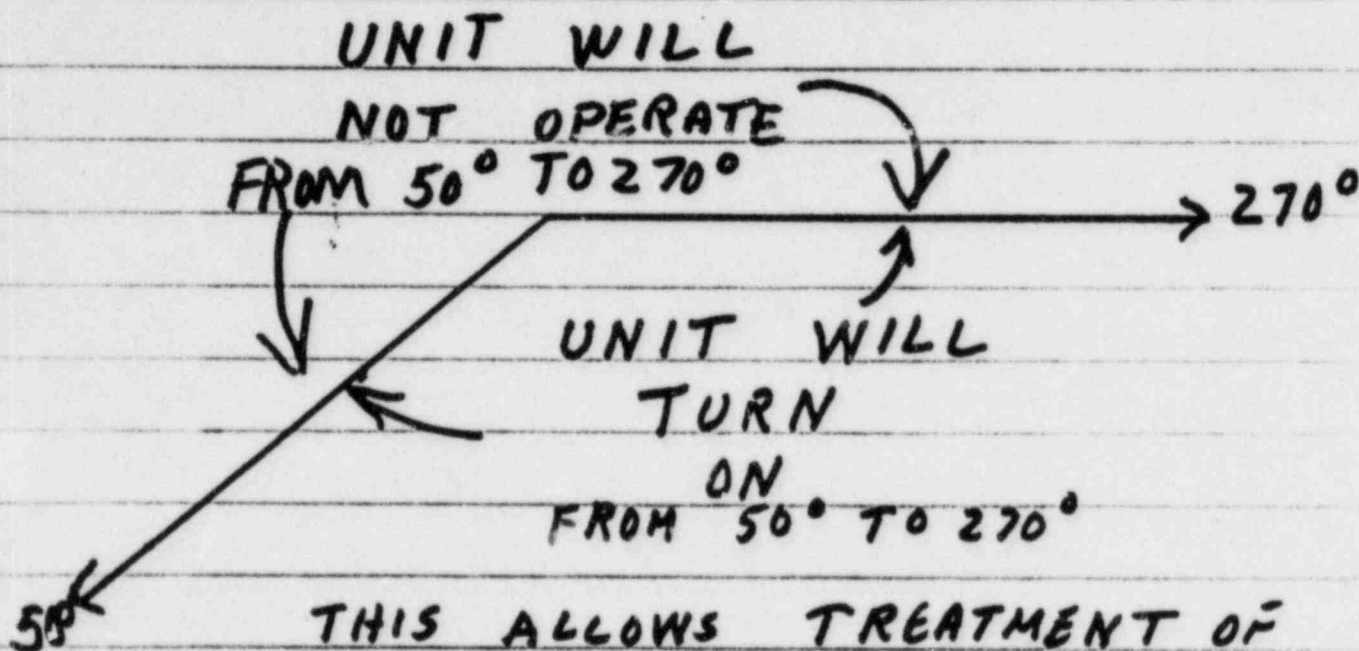
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INTERLOCK SETTINGS

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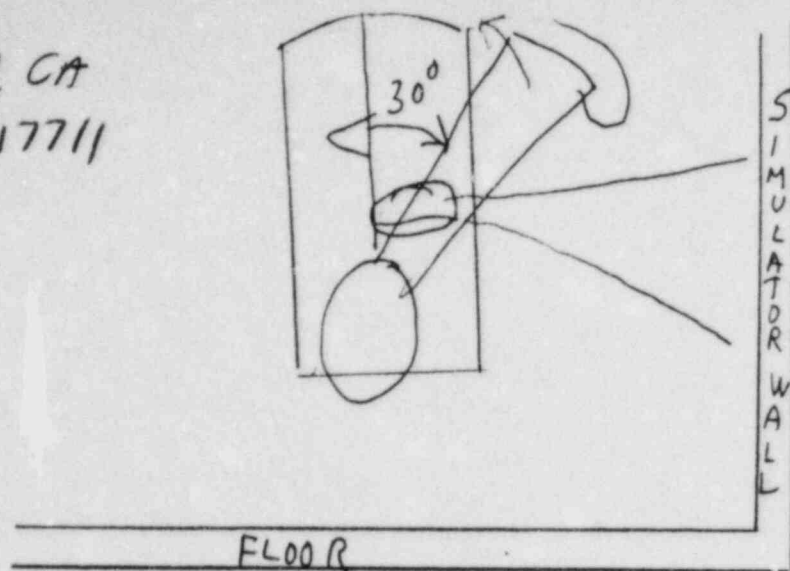
THERATRON 80
TRAVIS AFB, CA



THIS ALLOWS TREATMENT OF
PATIENTS ON FLOOR
AND AGAINST EAST WALL.

ATCH 1

DGMC
RAVIS AFB, CA
NRC Control 17711



MAXIMUM READING WHEN UNIT 30° FROM
VERTICAL TOWARD SIMULATOR WALL

DIRT

