

SOUTHEAST
MISSOURI
HOSPITAL

DMB COPY

August 26, 1985

Mr. D. G. Wiedeman, Chief
Nuclear Materials Safety Section I
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

RE: Southeast Missouri Hospital
Licenses No. 24-00128-03
No. 24-00128-05
SNM-1595

Dear Mr. Wiedeman:

This letter is in regard to your correspondence dated August 2, 1985, pertaining to the safety inspection conducted by Mr. G. L. Shear at Southeast Missouri Hospital on July 15-16 and 18, 1985.

The list of violations under Licenses No. 24-00128-03 and No. 24-00128-05 were reviewed by the Hospital Radiation Safety Committee on August 23, 1985. The responses to the violations are based upon committee action.

Violation No. 1 - License No. 24-00128-03

1. License Condition No. 23 requires that licensed material be possessed and used in accordance with the statements, representations, and procedures contained in certain referenced applications and letters.

The referenced application dated March 5, 1979 states in Item No. 7 that Appendix B of Regulatory Guide 10.8 will be followed. Appendix B of Regulatory Guide 10.8 states that the radiation safety committee will meet as often as necessary to conduct its business, but not less than once in each calendar quarter.

Contrary to this requirement, the radiation safety committee does not meet quarterly. Specifically, the committee did not meet in the third and fourth quarter of 1983 and the second quarter of 1985.

Correction Action:

The Hospital Radiation Safety Committee will meet a minimum of four times a year with at least one meeting per quarter.

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Mr. D. G. Wiedeman
August 26, 1985
Page 2

Violation No. 2 - License No. 24-00128-03

2. License Condition No. 23 requires that licensed material be possessed and used in accordance with the statements, representations, and procedures contained in certain referenced applications and letters.

The referenced application dated March 5, 1979 states in Item No. 10 that Appendix C of Regulatory Guide 10.8 will be followed for calibration of survey instruments. Appendix C of Regulatory Guide 10.8 states that survey instruments will be calibrated at least annually and following repair.

Contrary to the above, your Victoreen 7400 survey meter is not calibrated annually. Specifically, your Victoreen 7400 survey meter was not calibrated in February of 1982 and September of 1984, a period exceeding the annual requirement.

Corrective Action:

The Victoreen 7400 survey meter was last calibrated in September of 1984. It will again be calibrated in September of 1985 and on an annual basis thereafter.

Violation No. 3 - Licenses No. 24-00128-03

3. License Condition No. 15 states that each sealed source containing licensed material, other than hydrogen-3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months.

Contrary to this requirement, a sealed source containing approximately 103 millicuries of strontium-90 was not leak tested every six months. Specifically, leak tests were performed in January 1982, July 1983, July 1984, and February 1985, intervals exceeding six months.

Corrective Action:

The referenced sealed source was leak tested in February of 1985 and again in July of 1985. Future leak tests will be performed at least every six months.

Violation No. 4 - License No. 24-00128-05

4. 10 CFR 35.21(e) states that full calibration measurements required by paragraph (a) of this section and physical decay corrections required by paragraph (d) of this section shall be performed by an expert qualified by training and experience in accordance with 10 CFR 35.24.

Mr. D. G. Wiedeman
August 26, 1985
Page 3

Contrary to the above, as of the date of this inspection, this requirement has not been met. Specifically, full calibration measurements and physical decay corrections were performed by an individual who is not qualified in accordance with 10 CFR 35.24.

Corrective Action:

Co-60 teletherapy calibrations were performed by Bill Nalesnick, a Ph.D. qualified physicist on July 23, 1985. Based on initial information available, the calibrations were within one percent of those made by Don Agnew, Hospital physicist. A copy of the written calibration report will be forwarded to your office as soon as it is received from Dr. Nalesnick. Future Co-60 teletherapy calibrations will be made by an expert qualified by training and experience in accordance with 10 CFR 35.24.

Violation No. 5 - License No. 24-00128-05

5. 10 CFR 35.22 (c) states that spot-check measurements required by paragraph (a) of this section shall be performed in accordance with procedures established by an expert qualified by training and experience in accordance with 10 CFR 35.24. If a qualified expert does not perform the spot-check measurements, the results of the spot-check measurements shall be reviewed by a qualified expert within fifteen days.

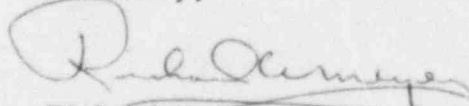
Contrary to the above, spot-check measurements performed on your cobalt-60 teletherapy unit have not been reviewed as required. Specifically, results of spot-check measurements, performed by an individual who is not a qualified expert, were not reviewed by an expert qualified in accordance with 10 CFR 35.24.

Corrective Action:

Spot-check measurements on the Cobalt-60 teletherapy unit will be performed by Don Agnew, Hospital physicist. However, the measurements will be reviewed by Bill Nalesnick, a Ph.D. qualified physicist until such time that Mr. Agnew is deemed qualified by the Nuclear Regulatory Commission.

If additional information is required pertaining to the action taken to correct the violations noted during the July 15-16 and 18, 1985, safety inspection, please contact me.

Sincerely,



Richard W. Meyer
Assistant Administrator

RWM:jss

Mr. D. G. Wiedeman
August 26, 1985
Page 4

cc: O. D. Niswonger, Hospital Administrator
T. E. Cupples, M.D., Chairman,
Hospital Radiation Safety Committee
W. D. Agnew, Hospital Radiation Safety Officer