



ST. ELIZABETH HOSPITAL MEDICAL CENTER

A MAJOR TEACHING HOSPITAL ASSOCIATED WITH
The Northeastern Ohio Universities College Of Medicine

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DEPARTMENT OF
RADIOLOGY

May 24, 1985

Mr. Bruce Mallett
Nuclear Regulatory Commission, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Ref: Addition of Group VI (Therapeutic use of sealed sources) in our License
No.: 34-01131-01 and your Control No.: 18435

Dear Mr. Mallett:

We plan to use in our radiation therapy department the sealed sources of Group VI for implant in the human body by radiotherapists who are already licensed to use Co-60 for external radiation therapy in our License No.: 34-01131-03. We would appreciate if our above mentioned License No.: 34-01131-01 be amended as soon as possible to include sealed sources of Group VI for maximum activity of 500 mg. radium equivalent each.

The details of the procedures as per requirement of Item 20a thru g of the regulatory guide 10.8 of October 1980, are given below:

- Item 20:
- a. The sealed sources will be stored behind lead bricks of at least 1 inch thick all around, at a place where we at present handle the radium implant sources, located in an ortho-voltage treatment room and it is approximately 10 to 15 ft. from the unrestricted area. This room is also lined with 5/16 inch thick Pb. The radiation levels in the unrestricted area shall be less than 2.0 mR in any one hour or less than 100 mR in any seven consecutive days.
 - b. & c. The sealed sources will be handled behind an L shaped lead shield of 2 1/4 inch thick lead with a leaded viewing glass and the persons handling these sources shall wear a TLD ring badge and whole body film dosimeter (Landauer Co.).
 - d. The sealed sources shall be transported in a lead container on a cart specially designed for Ra-source transport purposes, and has lead shielding of at least 1 inch.

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- e. A log book giving details of the sources in stock and the sources going out and coming in shall be maintained as it is now done with the radium sources.
- f. The radiation survey, (during the course of the treatment and at its conclusion, of the patient, and the room) shall be carried out with a Victoreen G.M. Survey-meter Model No: 490 and a record of the same shall be maintained. This shall also include the count of the sources removed and to determine that all temporary implant sources have been removed from the patient and the room and returned to the storage area.
- g. Special instructions for nursing care of patients shall be followed as per procedures described in Appendix L of the above mentioned guide.

A.S. Chhabra

A.S. Chhabra, Ph.D.
Radiological Physicist
Radiation Safety Officer

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