



Middletown Hospital

Serving Butler and Warren Counties Since 1916

105 McKnight Drive · Middletown, OH 45042 · (513) 424-2111

May 5, 1984

Ms. Patricia J. Whiston
Materials Licensing Section
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Dear Ms. Whiston,

We would like to initiate again our application for the use of additional Group VI Radionuclides. The following additional information is forwarded as a result of our initial application dated May 16, 1983 and your correspondence dated June 13, 1983. Brachytherapy sources for which authorization is asked, in addition to presently authorized iodine-125 seeds, includes:

Iridium-192 seeds, maximum possession limit of 300 mCi
Gold-198 seeds, maximum possession limit of 400 mCi
Cesium-137 tubes, maximum possession limit of 250 mCi

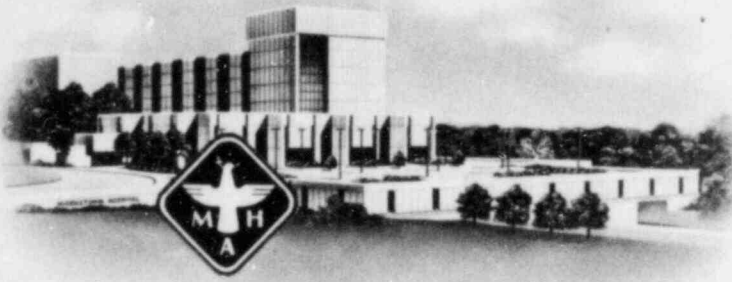
Users include Kenneth E. Murdock, M.D. (authorized for use of brachytherapy sources in Group VI under NRC License No. 34-10921-03 (Bethesda Hospital, Cincinnati, Ohio) and James Thomson, M.D. (authorized for use of brachytherapy sources in Group VI under NRC license No. 34-06903-05, University Hospital, Cincinnati, Ohio). Both users are certified in Radiation Therapy by the American Board of Radiology.

In addition, Dr. Thomson should be included as a user of Iodine 125 seeds.

1. Administration will certify/signed statements concerning activities related to NRC Licensee No. 34-08279-02.
2. The training provided to the nursing staff will be given by James G. Kereiakes, Ph.D., Radiologic Physicist, and James Thomson, M.D. Therapist. Material to be covered will include a combination of personal slides supplemented by a slide series titled "Nursing Care of Radionuclide Therapy Patients" (Training Resources, NSS, Columbia, MD.)
3. Materials resulting from brachytherapy treatment (i.e., linen, gowns, disposable and non-disposable items, will be stored in a plastic bag in patient's room and will be monitored by personnel from the

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Nuclear Medicine Lab prior to disposal.

4. Sources will be stored in an isolated room(Room 171) located in the Radiology Department. Sources will be contained in their shipping containers during this brief storage period. Areas surrounding this room (including store room and future expansion areas). These unrestricted areas will be surveyed weekly to assure that radiation levels are below 2 mR/hr. Room will be locked at all times with key under the supervision of Mr. Vic Hall of Nuclear Medicine Lab.
5. Sources will be transported in lead containers having at least 1" lead shielding in all directions; containers will be hand-carried or on carrying cart.
6. Appendix L procedures of Regulatory Guide 10.8, "Guide for the Preparation of Applications for Medical Programs", will be followed.

J. W. Passino
J. W. Passino, M.D.
Director of Radiology