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January 11, 1973

Amended 1/8

John B. Sawyer
Division of Materials Licensing
U. S. Atomic Energy Commission
Washington, D. C.

Refer to: AEC Byproduct Material License No. 34-01197-01

Dear Mr. Sawyer:

In reply to your letter of December 13, 1972 regarding our request for the use of the 3 M Company kit to prepare Technetium 86m labeled albumin microspheres (human) for lung scanning, we submit the following additional information as requested.

No. 6 The methods used to control and evaluate radiation exposure to personnel during preparation of the pharmaceutical are as follows:

- A. The $^{99m}\text{TcO}_4^-$ will be milked from the generator using a lead milking pig.
- B. The eluate from the generator will be assayed in a Radex Mark V Isotope Dosecalibrator using extension tongs for handling.
- C. The $^{99m}\text{TcO}_4^-$ will be transferred to a shielded labeling vial using shielded syringes.
- D. The labeling vial will be assayed after labeling as described in Item F of this section.
- E. The syringe containing the dose will be assayed before injection.
- F. The injection will be done with syringes covered with shields.
- G. The personnel will be wearing film badges and ring badges obtained from R. C. Lansauer and Co. and will be evaluated monthly.

Truly yours,

William J. Payne, M.D.
Director
Nuclear Medicine

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