



UNITED STATES  
ATOMIC ENERGY COMMISSION  
WASHINGTON, D.C. 20545

MAR 26 1974

(46485)

Department of the Army  
Fitzsimons Army Medical Center  
and U. S. Army  
Medical Research and Nutrition Lab  
ATTN: Dr. James A. Wier  
Denver, Colorado 80240

Gentlemen:

Your application dated 2-13-74 requesting authorization to use Mo99/Tc99m generator containing fission product parent Mo99 should be supported with the following additional information\*:

- ☒ 1. Confirmation that every elution will be assayed for Tc99m activity and Mo99 breakthrough contamination by radiometric methods and that the eluates will not be used if there is more than one microcurie of molybdenum 99 per millicurie of technetium 99m or more than five microcuries of molybdenum 99 per administered dose of technetium 99m.
- ☒ 2. A description of accessories and facilities to be used. Vial, syringe, and auxiliary shielding and areas where the units will be eluted and stored are of particular interest.
- ☒ 3. A summary of current and proposed procedures observed to minimize whole body and extremity exposure to personnel eluting generators and assaying and handling the eluates. Current information concerning personnel monitoring and emergency procedures for accidents and spills should be submitted.
- ☐ 4. Confirmation that the manufacturer's procedures for molybdenum 99 contamination and technetium 99m assay will be followed or submit alternate procedures.
- ☐ 5. Confirmation that the manufacturer's procedures for elution will be followed.
- ☐ 6. The manufacturer's name and model number of the generators desired.

\*Specific reference to earlier submissions by date of document, page number and paragraph or item may be incorporated. Responses should be meaningful and complete.

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- ☐ 7. Manufacturer's name and model number of the available survey meter which is capable of measuring up to one roentgen per hour.
- ☐ 8. The required Mo99 possession limit to provide for units whose calibration date may be five or six days after receipt and units remaining on hand.

Sincerely,

ORIGINAL SENT BY  
JOHN E. BOWYER  
John E. Bowyer  
Materials Branch  
Directorate of Licensing