

May 30, 1985

LICENSE NO. 20-23366-01  
DOCKET NO. 030-20977  
CONTROL NO. 03837

Fitchburg State College  
Chemistry Department  
ATTN: Judith L. Ciottone, Ph.D.  
Fitchburg, MA 01420

Dear Dr. Ciottone:

This is in reference to your letter dated May 9, 1985, to amend License No. 20-23366-01. In order to continue our review, we need the following additional information:

1. Please specify the forms of sulfur-35 and phosphorous-32 you wish to acquire and use. Also describe the intended usage for such materials and the maximum anticipated quantities you expect to use at any one time.
2. In support of your request for 10 millicuries of phosphorous-32, you should develop and submit special safety instructions to be provided to individuals using millicurie quantities of P-32. We recommend that your procedures include, but not be limited to, the following:
  - a) The use of low density shielding (for instance, 1/2 inch thick plexiglass) in order to keep Bremsstrahlung radiation at a minimum.
  - b) A mandatory radiation survey and wipe test procedure after each use.
  - c) The use of finger-type extremity monitors for procedures that involve 1 millicurie or more.
  - d) The use of a dry run prior to the performance of unfamiliar procedures in order to preclude unexpected complications. In addition, it is recommended that the radiation protection officer be present during the new procedures.
  - e) The use of eye protection devices for procedures that involve 10 millicuries or more.

Please submit procedures concerning the above.

We will continue our review of your application upon receipt of the above information. Please reply in duplicate, referencing Control No. 03837.

Sincerely,

Original Signed By:

John E. Glenn

John E. Glenn, Ph.D., Chief  
Nuclear Materials Safety Section B  
Division of Radiation Safety and  
Safeguards

RI:DRSS

Varela

5/30/85

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