



FITCHBURG STATE COLLEGE

FITCHBURG, MASS. 01420

June 10, 1985

MS 16
P2

Dr. John E. Glenn, Chief
Nuclear Materials Safety Section B
Division of Radiation Safety and Safeguards
U.S. Nuclear Regulatory Commission, Region 1
631 Park Avenue
King of Prussia, PA 19406

Dear Dr. Glenn:

This is in response to your request for additional information concerning the proposal amendment to our license (Control No. 03837).

The sulfur-35 and phosphorous-32 will be used for research on sulfur metabolism in plants. They will be purchased in liquid form. The maximum anticipated quantities to be used at any one time are as follows:

sulfur-35..... 1 millicurie
phosphorous-32..... 100 microcuries

Anyone working with phosphorous-32 will be instructed in and given a copy of the following special safety instructions:
(See attached)

If further information is required, please contact me at the College address. Thank you for your consideration.

Sincerely,

Judith L. Ciottone

Dr. Judith L. Ciottone
Department of Chemistry
Fitchburg State College
Fitchburg, MA 01420

Patrick F. Delaney

Dr. Patrick Delaney
Vice President
Office of Academic Affairs
Fitchburg State College

JLC/gls
Enclosure

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SAFETY PROCEDURES TO BE FOLLOWED WHEN USING PHOSPHOROUS-32

1. When removing an aliquot of phosphorous-32 from the stock container, wear lead-lined gloves and lead glass goggles. These are located in the radioisotope storate room.
2. Place the plexiglass shield in front of you and keep the stock container of phosphorous-32 behind this shield at all times.
3. Upon completion of the sample preparation procedure, immediately return the stock container of phosphorous-32 to the lead safe and perform the following survey procedures:
 - a. Using the PUG-1 survey meter, survey the bench top and record results in the notebook entitled, "Phosphorous-32 Bench Top Surveys" located in the radioisotope storage room.
 - b. Perform a wipe test of the bench top using a Radiowash Towelette. Place towelette in a liquid scintillation vial and bring to Room 311 for counting.
4. Before using phosphorous-32 in a new sample preparation or counting procedure, a dry run must be carried out. Make an appointment for the Radiation Safety Officer to observe the dry run as well as the first run using phosphorous-32 (Dr. Judith L. Ciottone, extension 3247).