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Br. J

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US Nuclear Regulatory Commission
Region 1
475 Allendale Road
King of Prussia, PA 19406

7/17/07

Attn: Materials Licensing

re: Amendment of Byproduct Material License, Number 37-06958-02
Swarthmore College, Docket Number 030-10952

Gentlemen:

This is a request for an amendment to the referenced license. Please authorize the use of phosphorus 32 for research and development purposes. The P-32 will be in the form of tagged adenosine triphosphatase (ATP) that will be added to solutions of purified enzymes from bacteria to evaluate the interactions between the enzymes, a communicating molecule and the active ATP. Analysis will be by means of thin layer chromatography. It is requested that a maximum of 250 microcuries (μCi) be authorized at any one time. It is anticipated that 10 to 25 μCi will be used in any one experiment. The work will be performed by Stephen T. Miller, Ph.D. We request that Dr. Miller be added to the license as an authorized user. Dr. Miller worked on this project at Princeton University. Dr. Miller will be the sole researcher with no students involved. Anthony LaMastra will perform an initial survey prior to the actual work being initiated to determine that the work will comply with license conditions and the NRC's regulations. Mr. LaMastra does not believe that personnel dosimetry will be required. However, if it is, it will be supplied by a processor accredited under NAVLAP. Dr. Miller will also investigate the possibility of using phosphorus 33 and we request a similar authorization for this radionuclide, in the same activity limit (250 μCi). Should there be any questions regarding the application, please feel free to contact me.

Yours sincerely,


Frank A. Moscatelli
Professor of Physics
Radiation Safety Officer

Cc: C. Hungerford, Provost
C. Stuart Hain, VP Facilities

This is to acknowledge the receipt of your letter/application dated

7/17/07, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment 37-06958-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 140898.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.