

September 22, 2010

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Mr. James Dwyer
U.S Nuclear Regulatory Commission
Region 1, 475 Allendale Road
King of Prussia, PA 19406-1415

Dear Mr. Dwyer,

03003787

This letter is to amend our Materials License (06-03754-01) to close out laboratory space currently designated as radioisotope user areas. Both areas (Rooms 5 and 110) of the Jenkins Laboratory were briefly employed for experiments involving S-35 and P-32, respectively. The reason for close-out now is that the Jenkins Laboratory is slated for extensive renovation in the near future although the exact date for start of demolition has not yet been set. Potential radioisotope users have already been informed of this close-out. No activities involving radioisotopes have been conducted in these areas for at least the past 15 years. It is highly unlikely that any use of radioisotopes will be sought in these areas between now and the start of renovation. But if so, space will be offered in other existing radioisotope use areas elsewhere on our campus. Although not pertinent to this close-out, there are no current plans for re-designation of radioisotope use areas in the renovated Jenkins Laboratory. Nevertheless, we reserve the right to request such designations should the need arise in the future.

According to our records, a total of 750 microcuries of P-32 labeled deoxycytidine triphosphate were purchased between August of 1987 and June of 1988 for use in Room 110. Likewise, a total of 5.5 millicuries of S-35 labeled methionine were procured between October of 1988 and January of 1992 for use in Room 5. Personnel using these radioisotopes in these laboratories have been interviewed and assure me that no other radioisotopes were used in these areas.

Layout diagrams of Rooms 5 and 110 of the Jenkins Laboratory are attached. Locations of entrances, benches, fume hoods, and sinks are shown. Red numbers refer to locations of wipe test samples.

Wipe tests were conducted by swabbing each area indicated with a moistened 1-cm² disc of filter paper. The disc was placed in a scintillation vial and 15 ml of OptiFluor was added and the vial shaken. A control vial containing OptiFluor and a moistened filter paper disc was prepared to assess background count rates. Samples were counted in a Packard 2900TR scintillation counter for at least 2 minutes. Counting efficiency for P-32 (samples 1-31) was determined by preparing a standard with known initial specific activity and assuming a half-life of 14.3 days. This standard revealed a counting efficiency of 70% for the instrument settings employed. In the attached table, the P-32 counts per minute (cpm) are uncorrected for background. Sample disintegrations per minute (dpm) were calculated as (cpm - background)/0.70. For S-35 samples (from Room 5, vials 32-54), an instrumental pre-programmed external standard method was employed which prescribed optimal instrument parameters for this radioisotope. The instrument thus reports corrected sample dpm directly (see attached table). It is clear that all samples exhibited count rates commensurate with background.

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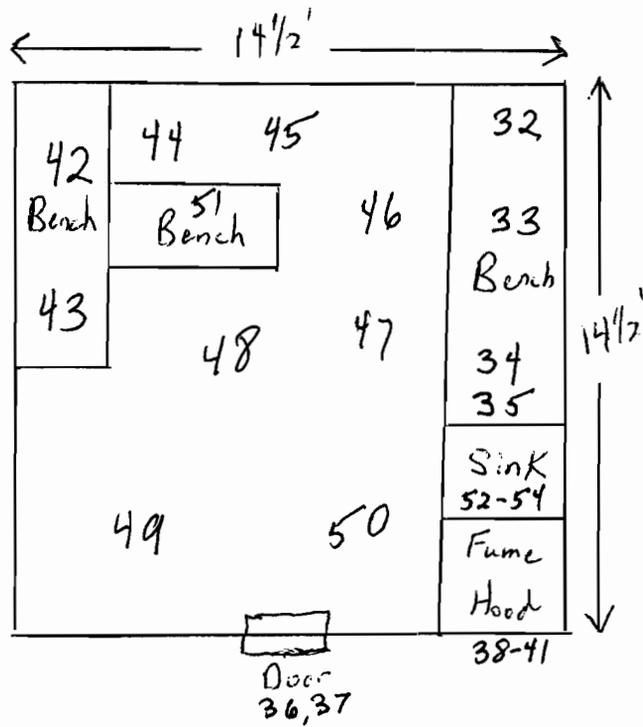
A Geiger counter (Eberline E-120E, last calibrated in July 2009) survey was conducted in both Rooms 5 and 110 of the Jenkins Laboratory. The instrument was set to its most sensitive scale. Laboratory and desk surfaces, cabinet interiors, drawer interiors, fume hoods, and sinks were inspected. Count rates ranged from 20 to 40 cpm which is indistinguishable from background. During this survey a visual inspection failed to find any trace of radioisotope use (labeled reagent bottles, liquid or solid waste).

Hopefully, I am providing sufficient information to close-out these user areas wherein short half-life radionuclides were used long enough ago for any contaminating trace to have thoroughly decayed. Call me if you need additional information.

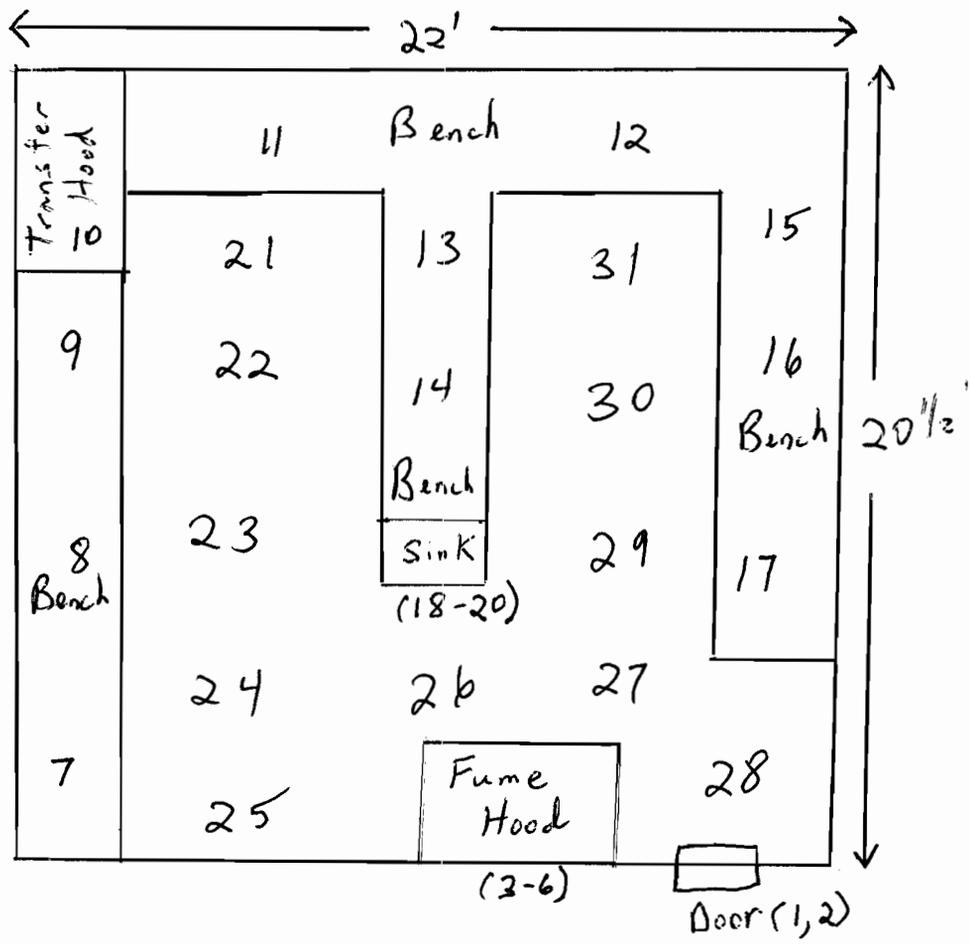
Sincerely,



Richard B. Peterson
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The Connecticut Agricultural Experiment Station
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Jenkins Laboratory
Room 5



Jenkins Laboratory
Room 110

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

9/22/10, and to inform you that the initial processing which includes an administrative review has been performed.

Amendment (06-03754-01)
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** 573586.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.