

JAN 11 1983

License No. 07-01579-19
Docket No. 030-10925
Control No. 02864

University of Delaware
ATTN: Stuart W. Kline
Associate Director of Safety
Newark, Delaware 19711

Gentlemen:

This is in reference to your application dated August 19, 1980, to renew License No. 07-01579-19. In order to continue our review, we need the following additional information:

1. Because of our delay in processing your renewal application, we request that you review your submittal for any updating that may be required and provide the necessary revisions and/or additions. It is particularly important to update the membership of your Radiation Safety Committee.
2. Please describe the methods employed for maintaining records of Radiation Safety Committee proceedings and safety evaluations of proposed uses of radioactive materials.
3. Please confirm that the Radiation Safety Committee will conduct an annual review of the University's radiation safety program. This review should determine that procedures and policy have been implemented and that resources have been adequately allocated.
4. Please describe how packages containing radioactive materials are received and handled by the University.
5. Please provide the procedures you use for safety opening packages containing radioactive materials.
6. In addition to the description provided under Item 13, an explanatory sketch should be provided for each area where especially hazardous material is used or stored or where especially hazardous operations are performed (i.e., bulk waste storage and processing areas and laboratories assigned for tritium or iodine labeling studies).
7. Please confirm that training will be provided to all personnel with access to restricted areas in accordance with Section 19.12 of 10 CFR 19, both initially upon employment or enrollment, and annually thereafter on a refresher basis.

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8. Confirm that undergraduate use of radioactive material will be under the supervision and in the physical presence of an instructor approved by the Radiation Safety Committee.
9. Please provide the general rules you post for safe use of radioactive material. They should specify protective clothing and personnel monitoring requirements; and prohibit mouth pipetting and the use and storage of food and beverages.
10. In addition to the routine surveys provided by the Radiation Safety Office (Attachment #11, Area Monitoring), you stated that Permit Supervisors are requested to conduct area monitoring. They should measure external exposure rates, conduct contamination surveys at the end of each experiment, and maintain records of such surveys. Please confirm or state specifically what they do.
11. Please define Permit Supervisors vs. Authorized Users.
12. We do not feel that your requirements for thyroid monitoring (Attachment #10, 3rd page) are adequate. Regulatory Guide 8.20 (enclosed) describes bioassay procedures we find acceptable. Please reply.
13. Describe the surveys (or evaluations) you will conduct to assure compliance with 10 CFR 20.106 while performing iodinations employing iodine-125.
14. Attachment #11 (4th page), Security of High Activity Sources, refers to diagrams of Du Pont and Sharp Laboratories attached to the renewal application for License No. SNM-656 dated September 29, 1978. Your renewal application should not reference previous submissions. Please provide copies of the diagrams.

We will continue our review of your application upon receipt of this information. Please reply in duplicate and refer to Control No. 02864.

Sincerely,

~~Original Signed By:~~
Phillip C. Jerman

Phillip C. Jerman
Nuclear Materials Section B
Division of Engineering and
Technical Programs

Enclosure: Regulatory Guide 8.20

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