

FEB 08 1988

Curators of the University
of Missouri
c/o Office of Research Safety
ATTN: John H. Tolan, Director
518 Clark Hall
Columbia, MO 65211

Gentlemen:

We have reviewed your letter dated December 30, 1985 requesting renewal of your NRC License No. 24-00513-33 and find that we will need additional information as follows:

1. Access Control

Please indicate that the irradiator will be located in a room that can be locked to prevent access by unauthorized persons. Also, please describe your method of limiting access to the area when the irradiator is in use.

2. Operating and Emergency Procedures

Please indicate that each person who uses the irradiator will be provided with written operating and emergency procedures. These procedures should be maintained at the control station and the emergency procedures conspicuously posted in the area. It is not necessary to submit the detailed operating and emergency procedures to the NRC, however, please indicate that these procedures will include instructions on the following topics:

- a. Step-by-step procedures for operation of the irradiator. Information may be extracted from the irradiator manufacturer's manual.
- b. Determination and recording of radiation doses to individuals operating the irradiator.
- c. The method(s) of assuring that only authorized individuals will use the irradiator or have access to the area.
- d. Inspections and test procedures for ensuring that all safety interlocks, devices and components associated with the irradiator are functioning properly.
- e. Emergency situations, e.g., if a survey reveals abnormal radiation levels around the irradiator, personnel should leave the irradiator room, lock the door, and contact the individual responsible for the irradiator program. In addition, your procedures should require that a survey be made with a radiation survey meter outside the irradiator room to determine whether further restriction of the area is necessary to ensure that no one can enter the area if the radiation level exceeds 2 milliroentgens per hour.

3. Maintenance and Repair of Irradiator

Please describe your plans for irradiator repairs or alterations involving removal of shielding or access to the licensed material. Normally these tasks will be performed by the supplier or other persons who are specifically licensed by the NRC or an Agreement State for such work. If your plans depart from the normal, you should clearly explain how these tasks will be safely and adequately performed.

4. Inclusion of Documents in License Renewal

Your previously submitted application dated November 26, 1980 describes various radiation safety provisions that were not included in your renewal request dated December 30, 1985. Therefore, your application dated November 26, 1980 must be included in your license renewal. Please acknowledge.

If you have any questions or require clarification on any of the information stated above, you may contact us at (312) 790-5625.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 30 days, and refer to Control Number 80436.

Sincerely,

Kathy J. Graden
Materials Licensing Section

R111
KJ
Graden/mb
2-8-88