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NOV 5 1985

The University of Chicago
Radiation Protection Service
ATTN: Edward W. Mason
Director
5841 South Maryland Avenue
Chicago, IL 60637

Gentlemen:

This is in reference to your letter dated August 16, 1985 requesting an amendment to NRC License Number 12-00509-03 for use of an AECL Gammacell 1000 blood irradiator.

We have reviewed your letter and find that additional information is needed in support of your request. Please respond to the following:

1. Outline the criteria that will be used by the University's Committee on Radiation Hazards for approving individuals to use and to supervise the use of the blood irradiator. (Items 7 and 8 of the enclosed guide contain a description of training and experience requirements that the NRC finds acceptable.)
2. Confirm that the irradiator will be located in a room which can be locked when an approved user is not present.
3. Specify the type of personnel monitoring equipment that will be worn by personnel who will use the irradiator and the frequency of exchange.
4. Confirm that all personnel who will use the irradiator will be provided with written operating and emergency procedures consisting of, as a minimum, the following topics:
 - a. Step-by-step procedures for operation of the irradiator. Information may be extracted from the irradiator manufacturer's manual.
 - b. Personnel monitoring equipment to be worn when operating the irradiator.
 - c. The door to the irradiator room is to be locked when the irradiator is unattended.
 - d. Leak-testing, if applicable.

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- 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.

We will continue the review of your request upon receipt of this information. Please reply in duplicate within 30 days and reference Control No. 79603.

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

Sincerely,

Original Signed By
B. J. Holt
Materials Licensing Section

Enclosure: Self-Contained
Irradiator Guide

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