

JUL 2 1 1983

License No. 20-15266-01  
Docket No. 030-08833  
Control No. 14991

Joslin Diabetes Center  
ATTN: J. Stuart Soeldner, M.D.  
Head, Clinical Physiology Section  
One Joslin Place  
Boston, Massachusetts 02215

Gentlemen:

This is in reference to your request in a letter dated May 25, 1983, to renew License No. 20-15266-01. In order to continue our review, we need the following additional information:

1. Please provide a resume of the training and experience of Dr. C. Ronald Kahn, M.D. The resume should include the type (on-the-job or formal course work), location, and duration of the training with radioisotopes. Training should cover:
  - a. Principles and practices of radiation protection.
  - b. Radioactivity measurements, standardization, and monitoring techniques and instruments.
  - c. Mathematics and calculations basic to the use and measurement of radioactivity.
  - d. Biological effects of radiation.

The description of the use of radioactive materials should include the specific isotopes handled, the maximum quantities of materials handled, where the experience was gained, the duration of the experience and the type of use.

2. In support of your request for 20 millicuries of phosphorus-32, you should develop and submit special safety instructions to be provided to individuals using millicurie quantities of P-32. We recommend that your procedures include, but not be limited to, the following:
  - a. The use of low density shielding (e.g.,  $\frac{1}{2}$ " thick plexiglass) in order to keep Bremsstrahlung radiation at a minimum.
  - b. A mandatory radiation survey and wipe test procedure after each use.
  - c. The use of finger type extremity monitors for procedures that involve 1 millicurie or more.

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- d. The use of a dry run prior to the performance of unfamiliar procedures in order to preclude unexpected complications. In addition, it is recommended that the radiation protection officer be present during new procedures.
- e. The use of eye protection for procedures that involve 10 millicuries or more.

We will continue our review upon receipt of this information. Please reply in duplicate to my attention at the Region I office and refer to Mail Control No. 14991.

Sincerely,

Original Signed By:  
John D. Kinneman

John E. Glenn, Ph.D., Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

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