

FEB 11 1985

License No. 37-08802-01
Docket No. 30-06195
Control No. 01760

William H. Rorer, Inc.
ATTN: Dr. James R. Tretter
Vice President, Research
and Development
500 Virginia Drive
Fort Washington, Pennsylvania 19034

Dear Dr. Tretter:

This is in reference to your application dated September 19, 1983 to renew License Number 37-08802-01. In order to continue our review, we need the following additional information:

1. In Item 11 of your application, you propose to calibrate your own radiation detection instruments. Therefore you should submit a detailed description of your planned calibration procedures. The description of calibration procedures should include, as a minimum the following:
 - a. The manufacturer and model number of the source(s) to be used.
 - b. The nuclide and quantity of radioactive material contained in the source.
 - c. The accuracy of the source(s). Traceability of the source to a primary standard should be provided.
 - d. The step-by-step procedures, including associated radiation safety procedures. These procedures should include a two-point calibration of each scale of each instrument with the points located at approximately 1/3 and 2/3 of each scale.
 - e. The name(s) and pertinent experience of person(s) who will perform the calibrations.

If you decide to contract out the calibration of your radiation survey and monitoring instruments, you should specify the name, address, and the license number of the firm. You should contact the firm that will provide the calibration to determine if information concerning calibration procedures has been filed with the Commission. If this information has not been filed, you should obtain information concerning calibration procedures and submit it to this office.

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2. In Item 15 of your application, the procedures for determining the thyroid uptake of radioactive iodine do not include iodine 131. Therefore, describe the bioassay program to be established for personnel who handle iodine-131. Refer to the enclosed bioassay guide.
3. In support of your request for 5 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., plexiglass) in order to keep Bremsstrahlung radiation at a minimum.
 - b. A mandatory radiation survey and wipe test procedures after each use.
 - c. The use of finger type extremity monitors for procedures that involve 1 millicurie or more.
 - 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. 01760.

Sincerely,

Original Signed By:
John D. Kinneman

John D. Kinneman, Chief
Nuclear Materials Safety Section A
Division of Radiation Safety
and Safeguards

Enclosure: Regulatory Guide 8.20

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