



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION II
101 MARIETTA STREET, N.W.
ATLANTA, GEORGIA 30323

"OFFICIAL RECORD COPY"

JUL 31 1985

Unogen, Inc.
ATTN: Debra L. Bryant, Ph.D.
1500 Avon Street Extended
Charlottesville, Virginia 22901

Gentlemen:

SUBJECT: REQUEST FOR MORE INFORMATION ABOUT YOUR LICENSE APPLICATION
(Reference: 50621; 030-28730)

This refers to your application dated May 31, 1985.

In order to continue our review of this application we need the following clarifying information.

1. Radiation Protection Officer. From your application we note that Brian Copcutt is designated as your radiation protection officer (in a consulting capacity). This is acceptable, however, we also need the name and a description of training and experience in radiation safety and safe use of radioactive materials of the person who will serve as on site radiation protection officer. Also, please specify the amount of time the consultant RSO will spend in support of your operation and his availability for emergencies.
2. Radiation Safety Committee. Your application makes numerous references to the radiation safety committee but does not identify the membership. Accordingly, please provide the names and job titles and a description of each member's training and experience with radiation and radioactive materials. (Please refer to paragraph 7.2 of the enclosed Rev. 2 of Regulatory Guide 10.5.)
3. Facilities and Equipment. Since you request possession of up to several hundred millicuries of beta emitters in unencapsulated form for use in radiotracer applications, we need more specific information about your ventilation control and air cleaning equipment (i.e. hood, filters, dry-boxes). Please specify the following for your operations.
 - a. Hood Manufacturer and Model No. and radiological safety specifications
 - b. Hood face velocity
 - c. Stack height, blower location
 - d. Stack exhaust location with respect to neighboring buildings and distance to nearest fresh air intake of occupied buildings.
4. Environmental Considerations
 - a. Describe the area of use and tell how close it is to schools, hospitals, food processing plants and residential areas.

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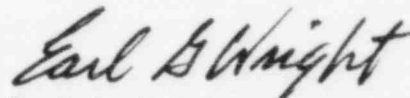
- b. For routine operations, do you except to release licensed materials to the environment? If so, describe your procedures for maintaining any release within regulatory limits.
- c. In the event of fire or explosion involving the areas where licensed materials are used and stored what is your assessment of the potential for environmental release and what procedures will be used to lessen the impact of such an event.
5. Training and experience of persons responsible for safe use of licensed materials. Please provide a description of the training and experience of Debra L. Bryant, Ph.D. and Michael P. Woodward, Ph.D. in the safe use of materials such as Hydrogen 3, Carbon 14, Phosphorus 32 and Sulfur 35.

Include isotope and maximum activity used, duration and type of use, location and inclusive dates of training and experience.

In order to allow for timely issuance of your license we ask that you provide the requested information within 45 days of receipt of this letter. Otherwise, we shall assume you have abandoned your application.

If you have questions about this letter, please call me. My telephone number is 404-221-5565.

Sincerely,



Earl G. Wright
Senior License Reviewer
Nuclear Materials Safety Section

Enclosure:
Revision 2 to Regulatory Guide 10.5

JH 7/31/85
EYW 7/30/85