

34-653-2

IN REPLY REFER TO:  
EHB:WOM (1967)

Oak Ridge, Tennessee  
April 16, 1957

Mr. E. A. Gentry, Jr.  
Clavite Research Center  
540 East 105th Street  
Cleveland 8, Ohio

Subject: APPLICATION FOR BYPRODUCT MATERIAL LICENSE

Dear Mr. Gentry:

Reference is made to your application for a byproduct material license dated April 5, 1957. Application made on behalf of Mr. Danforth R. Hale as individual user.

In reviewing your application it was noted under Item 10 (b) of Form ABC-313 that "users and others nearby received less than 50 mr/wk". Title 10 CFR, Part 20, Section 20.102 sets forth that non-radiation workers shall not receive in excess of 10 percent of the limits specified in Appendix A of this part. Appendix A states that whole body radiation for seven consecutive days shall not exceed 300 mr/wk. Non-radiation workers are limited to a maximum of 30 mr/wk or less. We would like confirmation that non-radiation workers are within this limit.

Since information on your instruments and facilities dates to April 1955, we would appreciate your completing Items 15 through 19 of the enclosed Form ABC-313. Radiographers are required to have radiation survey instruments with ranges suitable for both routine surveying and emergency situations such as locating dropped or lost sources. An ionization survey instrument with ranges from a few mr/hr to several R/hr is recommended. We would like to receive the make and model number and range of the instrumentation which you will have immediately available in your program. Personnel monitoring devices such as film badges, pocket chambers, etc. should be used in industrial radiography. We would like to receive either the make and model number of such equipment and the name of the film badge supplier.

We are unable to determine the method for using the three curie Cobalt 60 sealed source. Experience with respect to "open-air" use of cobalt sources in excess of one curie has demonstrated difficulty

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in such handling without personnel exceeding maximum weekly exposure of 300 millicuries, therefore, such use is not recommended. We would like to receive the make and model number of the exposure device for the source.

Enclosed please find an announcement entitled "Information on Licensing of Industrial Programs". We have checked certain items therein in red which are necessary to supplement your application.

Upon receipt of the information requested, we shall continue the review of your application.

Very truly yours,

James W. Hitch, Assistant Chief  
Byproduct Licensing Branch  
Isotopes Extension  
Division of Civilian Application

*[Signature]*  
Enclosures:

- 1. Form AEC-313
- 2. "Information on Licensing . . ."

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