

February 7, 1985

Cherry Electrical Products Corp.
Attn: Mr. Charles J. Neubauer
Sr. Research Technician
3600 Sunset Ave.
Waukegan, IL 60087

Gentlemen:

This is in reference to your application, dated March 6, 1984, to renew Byproduct Material License No. 12-15880-01. In order to continue our review, we need the following additional information:

1. Please describe the system you are using to fill glass tubes with krypton-85 (a simplified diagram will suffice) and include in this description an estimate of how much krypton-85 gas will be vented to unrestricted areas per quarter. Your estimate should include the concentration of the gas (in microcuries/cc) at the point of release.

2. Please submit a list of the precautions you will follow to minimize exposure of workers to trapped krypton-85 gas during maintenance and oil replacement of the vacuum pump(s).

3. Please confirm that your radiation survey program will include a survey of the tank storage area.

4. Please submit a copy of your receipt procedures for radioactive material. As a minimum, these should include, but not be limited to:

a. designation of an individual who will be responsible for ordering the material.

b. a check to ensure that the quantity received does not cause your total inventory to exceed the possession limit on your license.

c. procedures to ensure the security of the material if delivery during off-duty hours is anticipated.

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5. Radiation workers must receive instruction as specified in 10 CFR 19.12 (enclosed). Note that many of these items pertain to circumstances at your particular institution; therefore, you may not assume that this instruction has been adequately covered by prior occupational training, etc. Please outline and submit your program for providing the necessary instruction. Confirm that this instruction will be given both initially and annually thereafter on a refresher basis.


6. Ancillary personnel (clerical, housekeeping, security, etc.) whose duties may require them to work in the vicinity of radioactive material (whether escorted or not) need to be informed about radiation hazards and appropriate precautions. Outline your method to assure that these employees receive the necessary instruction. Confirm that this instruction will be given both initially and annually thereafter on a refresher basis.

7. Describe the type and frequency of periodic measurements that you will make to determine that the ventilation system(s) in krypton-85 use and storage areas continue to operate according to the specifications that you have submitted. Your frequency schedule should not exceed 6 month intervals.

8. Please submit a modified facility diagram that shows the location and the measured airflow rate of each air exhaust vent and each air supply vent in the areas where krypton-85 is used or stored. This information is necessary so that we may determine that use and storage areas are under negative pressure.

We will continue our review of your application upon receipt of this information. Please reply in duplicate and refer to Control No. 17196.

Sincerely,


William J. Adam, Ph.D.
Material Licensing Section

Enclosures:
REGION 03 CFR 19
WJAdam

OFFICE	WJAdam	02/7/85				
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