

31-461-10

Oak Ridge, Tennessee
November 19, 1957

IEB:CMF (LIC 31-461-10)

Dr. William L. Sutton
Eastman Kodak Company
Kodak Park Works
Rochester, New York

Subject: USE OF TRITIUM

Dear Dr. Sutton:

We wish to acknowledge receipt of your letter of October 29, 1957, concerning the use of tritium.

We shall answer your questions in the same order they were presented.

1. The clock face dials, counter dials, etc., should be covered with either a glass or plastic face to prevent unnecessary wear of the painted surface by the hands, etc. This cover should also aid in preventing chemical fumes found in laboratories from dissolving the paint and possibly contaminating other objects or personnel.
2. Any object painted with tritiated paint in quantities greater than that stated in Section 20.203 f. of 10-CFR-20, or 250 microcuries of tritium, shall be labeled with at least the following: standard radiation symbol, "Caution" or "Danger" - "Radioactive Materials" - "Tritium."
3. The tritium buttons and tritium painted objects may be licensed at either a central location or at each of your processing stations. If a single license will best suit your needs, records on the number of light sources and number of painted devices at each location should be kept both at the processing stations and at Kodak Park. Complete records on disposal of either sources or tritium painted objects should be maintained. A single license can be issued to cover the tritium painting of objects at Kodak Park and the distribution of these devices and locator buttons to your processing stations.
4. In licensing the objects to be painted with "Safeglow", New England Nuclear should be able to give you an estimate on the quantity of tritium paint needed on each of your objects. The application should indicate, for example, 15 dials, no dial to exceed 10 millicuries each.

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5. The "Safeglow" paint can be applied by your personnel at Kodak Park provided they have experience in the handling of radioactive material and proper facilities, such as a hood, or dry box, are available for both storage of the paint and the painting of the dials, etc. A flow type counter should be available to check for possible contamination. Records of these surveys should be maintained.

We trust this information may be of assistance. If we can be of further service, please feel free to contact us.

Very truly yours,

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

Ferrell/lg
Isotopes
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