

DUPLICATED  
FOR DIV. OF INSP.

31-461-10

8390  
RHR

EASTMAN KODAK COMPANY

PLEASE ADDRESS REPLY TO  
KODAK PARK WORKS

ROCHESTER 4, N.Y.

TELEPHONE  
CONGRESS 2500

January 14, 1958

James W. Hitch, Assistant Chief  
Byproduct Licensing Isotopes Extension  
Division of Licensing and Regulation  
United States Atomic Energy Commission  
Oakridge, Tennessee

Attention: William O. Miller

Re: IEB:NB (8142)

Subject: Application for extension of license 31-461-10 and amendment No.1  
thereof issued August 19, 1957 to Eastman Kodak Company, Kodak Park  
Works.

Dear Mr. Miller:

This is in reference to your letter of December 30, 1957 concerning  
our application for extension of our license for markers painted with New  
England Nuclear Corporation's "Safeglow" paint containing hydrogen 3.

In consideration of this license, please refer to our previous  
applications for license No. 31-461-10 and its amendment and letters of April 5,  
1957 and October 29, 1957 to Mr. Paul C. Aebersold.

Attention is directed to the fact that our application of 11/27/57  
for extension of license 31-461-10 involves three considerations. (1) Extension  
of maximum millicuries allowed under license to an additional 8 curies in 600  
sources. (2) To include any Eastman Kodak Company department or plant in the  
United States or its territories and (3) approval for lucite engravings to be  
painted with "Safeglow" - plans and description of which are attached to the  
application.

To answer your questions:

1. Please refer to letter of James W. Hitch, Assistant Chief of  
your division dated November 19, 1957, item 2, in which he states that "any  
object painted with tritium in quantities greater than that stated in section  
20.203 shall be labeled with at least the following: standard radiation symbol,  
"Caution" or "Danger" - "Radioactive Materials" - "Tritium." All engravings  
and all dark room locators (tritium buttons" from New England Nuclear Corporation  
to which this application applies will be marked with such a label. A duplicate  
of this label is attached.

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2. All dark room locators and painted engravings will be received at a central point at Kodak Park (Finish Film Supplies). There, accurate records will be maintained on intake, storage and department or plant and department to which the locator or engraving is sent. Each department using such locators or engravings will maintain its own records as to intake and location within the department of these objects. The Laboratory of Industrial Medicine will review these practices and the inventories and maintain summaries, thereof on an annual basis.

3. Lucite engravings painted with "Safeglow", described in application of 11/27/57: 95% or more of these will be used in one department in Kodak Park, Rochester, New York. Dark room locators model NEP-1 containing 8 millicuries  $H_3$ ; the majority of these locators will be used in several departments at Kodak Park, the minority of them in other plants. A list of these plants follows:

Kodak Park Works, Rochester, New York

Eastman Kodak Company Processing Laboratories: Chamblee, Atlanta, Georgia; Chicago, Illinois; Dallas, Texas; Fair Lawn, New Jersey; Findlay, Ohio; Flushing, New York; Los Angeles, California; Palo Alto, California; and Kodak Hawaii, Ltd., Hawaii.

4. Storage of appreciable quantities of tritium containing sources (both dark room locators and engravings) will be prohibited in operating departments or plants. The dark room locators stored in Kodak Park central distributing center (Finish Film Supplies) will be kept to a minimum - the maximum amount not to exceed 250 markers (8 millicuries locator or equivalent of 2 curies of tritium). The spare lucite engravings will be stored in the department using the majority of the engravings. A maximum of 100 such engravings will be stored at one time or the equivalent of about 2 curies of tritium. Both of these buildings are film manufacturing buildings in which there are the usual stringent precautions against fire, including automatic sprinkler systems, and in which there is good general ventilation. It is not our intention to install local exhaust ventilation in either area. In both storage areas, the containers will be non-combustable and clearly marked as to their content and the presence of radioactive material. It should be noted that our Fire Department will be aware of the location of these areas and also that our fire control practices are such that no one would enter this area after a fire has started without air supplied respirators.

I hope this information will be adequate to allow you to continue to process our application. I would like to point out that, we feel that tritium offers advantages as a luminous paint activator in that it is intrinsically less hazardous than radium.

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On the other hand, its acceptance as a useful material for this purpose by industry and operating departments is discouraged both by its expense as compared to radium and by the possibility that its ease of use may be complicated too much (as compared to radium) by restrictive requirements concerning health protection. We would, therefore, like a decision from you about this application as soon as possible.

Yours very truly,

*Wm L. Sutton, M.D.*

William L. Sutton, M. D.  
Secretary, Radiation Committee  
Eastman Kodak Company  
Kodak Park Works

WLS:mb

Enclosure

*OK mmp*