

Form # 7 31-461-10

Form AEC-313 (5-58)	ATOMIC ENERGY COMMISSION APPLICATION FOR BYPRODUCT MATERIAL LICENSE	Form approved Budget Bureau No. 38-R027.4
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INSTRUCTIONS.—Complete Items 1 through 16 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 15. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail three copies to: U. S. Atomic Energy Commission, Washington 25, D. C. Attention: Isotopes Branch, Division of Licensing and Regulation. Upon approval of this application, the applicant will receive an AEC Byproduct Material License. An AEC Byproduct Material License is issued in accordance with the general requirements contained in Title 10, Code of Federal Regulations, Part 30 and the Licensee is subject to Title 10, Code of Federal Regulations, Part 20.

1. (a) NAME AND STREET ADDRESS OF APPLICANT. <i>(Institution, firm, hospital, person, etc.)</i> Eastman Kodak Company Rochester 4, New York	(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED. <i>(If different from 1 (a).)</i> Kodak Park Works 1669 Lake Avenue Rochester, New York and Eastman Kodak Processing Laboratories (see original license)
2. DEPARTMENT TO USE BYPRODUCT MATERIAL Any Eastman Kodak Company Department or Plant in the United States	3. PREVIOUS LICENSE NUMBER(S). <i>(If this is an application for renewal of a license, please indicate and give number.)</i> Renewal and Amendment to 31-461-10 Amend. No. 6
4. INDIVIDUAL USER(S). <i>(Name and title of individual(s) who will use or directly supervise use of byproduct material. Give training and experience in Items 8 and 9.)</i> Kodak Park Radiation Committee William L. Sutton, M.D., Secretary	5. RADIATION PROTECTION OFFICER <i>(Name of person designated as radiation protection officer if other than individual user. Attach resume of his training and experience as in Items 8 and 9.)</i> William L. Sutton, M.D.

6. (a) BYPRODUCT MATERIAL. <i>(Elements and mass number of each.)</i> A) Hydrogen-3 B) Hydrogen-3 C) Hydrogen-3 D) Hydrogen-3	(b) CHEMICAL AND/OR PHYSICAL FORM AND MAXIMUM NUMBER OF MILLICURIES OF EACH CHEMICAL AND/OR PHYSICAL FORM THAT YOU WILL POSSESS AT ANY ONE TIME. <i>(If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)</i> A) Sealed Sources (U.S. Radium Corp. Model No. LAB-252 B-1) 400 sources of 60 millicuries each. Total 24 curies. B) Sealed Sources (New England Nuclear Corp. Model No. NEP-1 or equivalent) 3000 sources of 1 millicurie each. Total 3.0 curies. C) Sealed Sources (New England Nuclear Corp. Lucite engravings painted with tritium activated luminous paint.) 2500 sources not to exceed 100 millicuries each. Total not to exceed 45 curies. D) Sealed Sources (U.S. Radium Corp. Model LAB-252-SB-4) 25 sources of 2 millicuries each. Total 0.050 curies.
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7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. *(If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)*

Luminescent light sources in darkrooms used for manufacture of sensitized products and in photographic processing areas.

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TRAINING AND EXPERIENCE OF EACH INDIVIDUAL NAMED IN ITEM 4 (Use supplemental sheets if necessary)

8. TYPE OF TRAINING	WHERE TRAINED	DURATION OF TRAINING	ON THE JOB (Circle answer)		FORMAL COURSE (Circle answer)	
			Yes	No	Yes	No
a. Principles and practices of radiation protection	See previous applications for Items 8-15.		Yes	No	Yes	No
b. Radioactivity measurement standardization and monitoring techniques and instruments			Yes	No	Yes	No
c. Mathematics and calculations basic to the use and measurement of radioactivity			Yes	No	Yes	No
d. Biological effects of radiation			Yes	No	Yes	No

9. EXPERIENCE WITH RADIATION. (Actual use of radioisotopes or equivalent experience.)

ISOTOPE	MAXIMUM AMOUNT	WHERE EXPERIENCE WAS GAINED	DURATION OF EXPERIENCE	TYPE OF USE

10. RADIATION DETECTION INSTRUMENTS. (Use supplemental sheets if necessary.)

TYPE OF INSTRUMENTS (Include make and model number of each)	NUMBER AVAILABLE	RADIATION DETECTED	SENSITIVITY RANGE (mr/hr)	WINDOW THICKNESS (mg/cm ²)	USE (Monitoring, surveying, measuring)

11. METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED ABOVE.

12. FILM BADGES, DOSIMETERS, AND BIO-ASSAY PROCEDURES USED. (For film badges, specify method of calibrating and processing, or name of supplier.)

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS

13. FACILITIES AND EQUIPMENT. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. Explanatory sketch of facility is attached. (Circle answer) Yes No

14. RADIATION PROTECTION PROGRAM. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak tests, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source.

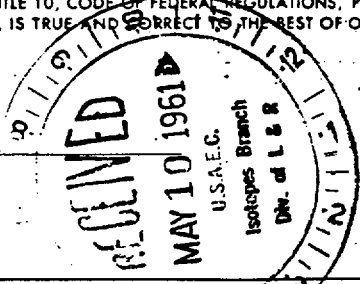
15. WASTE DISPOSAL. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved.

CERTIFICATE (This item must be completed by applicant)

16. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE APPLICANT NAMED IN ITEM 1, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PART 30, AND THAT ALL INFORMATION CONTAINED HEREIN, INCLUDING ANY SUPPLEMENTS ATTACHED HERETO, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF.

Date April 27, 1961

Eugene Kolak Co.
 Applicant named in item 1.
 By: J. Mulder
John Mulder, Administrative Assistant
to General Manager, Kodak Park Works
 Title of certifying official



WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948, 62 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States as to any matter within its jurisdiction.

PLEASE ADDRESS REPLY TO
PURCHASING DIVISION
KODAK PARK WORKS
TELEPHONE - CONGRESS 6-2500

EASTMAN KODAK COMPANY

ROCHESTER 4, NEW YORK

May 8, 1961

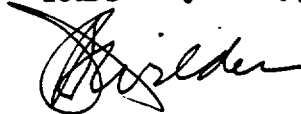
U. S. Atomic Energy Commission
Division of Licensing & Regulations
Washington 25, D. C.

Attention of Mr. R. E. Brinkman

Gentlemen:

We are attaching for your consideration three copies
of Amendment No. 6 to 31-461-10. If approved, would you please
forward the license to the undersigned.

Yours very truly,



JEWilder:VK
Enc.

