

UNITED STATES ATOMIC ENERGY COMMISSION
APPLICATION FOR BYPRODUCT MATERIAL LICENSE

INSTRUCTIONS - Complete Items 1 through 16 if this is an initial application or an application for renewal of a license. Information contained in previous applications filed with the Commission with respect to Items 8 through 15 may be incorporated by reference provided references are clear and specific. Use supplemental sheets where necessary. Item 16 must be completed on all applications. Mail two copies to: U.S. Atomic Energy Commission, Washington, D.C., 20545, Attention: Isotopes Branch, Division of Materials Licensing. 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 (Institution, firm, hospital, person, etc. Include ZIP Code.)		(b) STREET ADDRESS(ES) AT WHICH BYPRODUCT MATERIAL WILL BE USED (If different from 1 (a). Include ZIP Code.)	
Monsanto Company 800 N. Lindbergh Blvd. St. Louis, Missouri 63166		Same	
2 DEPARTMENT TO USE BYPRODUCT MATERIAL		3 PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)	
Safety & Fire Protection		Renewal GL 241 (C67)	
4 INDIVIDUAL USER(S). (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.)		5 RADIATION PROTECTION OFFICER (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.)	
Kenneth Kanta R. B. Blaesing E. J. Kilper Everett McLain Ernest Mirgain		M. L. Bezelli K. H. Fricke Frank Modica Willi Reckel L. C. Weger	
6 (a) BYPRODUCT MATERIAL (Elements and mass number of each)		(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 (If sealed source(s), also state name of manufacturer, model number, number of sources and maximum activity per source.)	
Americium 241		U. S. Radium Corporation Model Lab 204-1A (Rev. 2) foils contained in fire detection devices manufactured and distributed by Pyrotronics, Inc., 2343 Morris Avenue, Union, N. J. 07083 -Maximum of 104 millicuries to be on hand at any one time -	
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.)			
Americium 241 will be used only in the fire detection devices manufactured by Pyrotronics. Detectors are mounted in fixed locations.			

92743

(Continued on reverse side)

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)
a. Principles and practices of radiation protection	The people named in item 4 have been trained & certified by Pyrotronics. Certificates were filed with original license application & by subsequent memo.		Yes	No
b. Radioactivity measurement standardization and monitoring techniques and instruments			Yes	No
c. Mathematics and calculations basic to the use and measurement of radioactivity			Yes	No
d. Biological effects of radiation			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
See item 8				

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)
None required					

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

Not required

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

None

INFORMATION TO BE SUBMITTED ON ADDITIONAL SHEETS IN DUPLICATE

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 <input checked="" type="radio"/> No	See original application
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

3-1-67



Monsanto Company

Applicant named in item 1

L. B. Meier

Safety Manager

Title of certifying official

WARNING.—18 U. S. C., Section 1001; Act of June 25, 1948, 61 Stat. 749; makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States or to any matter within its jurisdiction.

LICENSE CONTROL FORM

APPLICANT Monsanto Company 800 N. Lindbergh Blvd. St. Louis, Missouri 63166		LICENSE NUMBER GL 241		APPD. NO. EXPIRATION DATE		CONTROL NUMBER 92743	
DATE REC'D 03-06-67		DATE ISSUED MAR 23 1967		PMUS 614		ASG W6M	
() LETTER () APPLICATION DATED: _____							
BYPRODUCT		CHEMICAL OR PHYSICAL FORM				POSS. LIMIT	
<i>None</i>		<i>None</i>				<i>None</i>	
<div style="text-align: right;">A/148</div>							
MAIL TO: <i>L.C. Weser</i>		DATE MAILED: 07 03 24		REVIEWER: <i>W6M</i>		DATE COMPLETED: 3-15-67	