

Velsicol Chemical Corporation  
1199 Warford Street  
Memphis, Tennessee 38108

2. DEPARTMENT TO USE BYPRODUCT MATERIAL

A. Dept. 41  
B. Dept. 01

3. PREVIOUS LICENSE NUMBER(S). (If this is an application for renewal of a license, please indicate and give number.)

Renewal of  
41-6916-2 Amendment No. 1 (L64)

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.)

John W. Pounders

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.)

6. (a) BYPRODUCT MATERIAL. (Elements and mass number of each.)

A. Cesium 137

B. Cesium 137

(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.)

A. Sealed source (U.S. Radium Corp.  
Model LAB 236C1-6)

A. 50 millicuries

B. Sealed source (Ohmart Corp. Model A-2102)

B. 100 millicuries

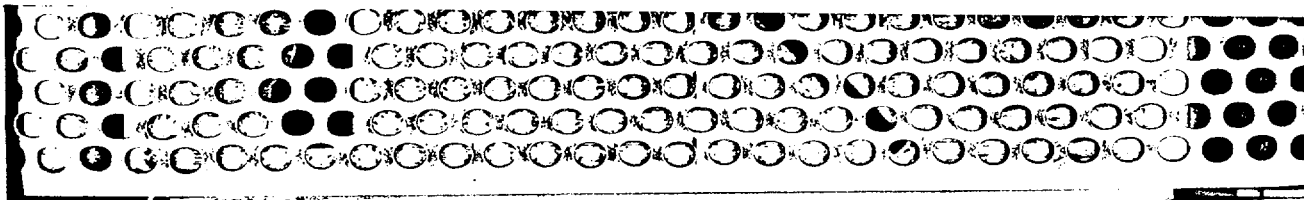
7. DESCRIBE PURPOSE FOR WHICH BYPRODUCT MATERIAL WILL BE USED. (If byproduct material is for "human use," supplement A (Form AEC-313a) must be completed in lieu of this item. If byproduct material is in the form of a sealed source, include the make and model number of the storage container and/or device in which the source will be stored and/or used.)

A. To be used in Ohmart Corporation Model SHRM-P source holder for liquid density measurements in a pipe line.

B. To be used in Ohmart Corporation Model HM-8 source holder for liquid density measurement in a pipe line.

60903

(Continued on reverse side)



A17

		TRAINING		(Circle answer)		(Circle answer)	
a. Principles and practices of radiation protection . . . . .				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 <sup>2</sup> )	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 November 16, 1964

Velsicol Chemical Corporation  
Applicant named in item 1

By: Marvin Lissner  
Plant Engineer  
Title of certifying official

RECEIVED  
NOV 19 1964  
U.S. ARMY  
COMMUNICATIONS  
HEADQUARTERS  
MAIL SECTION

**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 on any matter within its jurisdiction.