

DOCKET

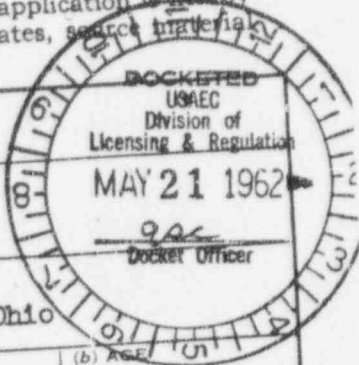
40-1066

BUREAU OF BUDGET NO. 38-R002 B.

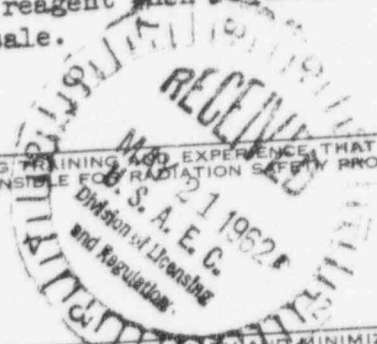
UNITED STATES ATOMIC ENERGY COMMISSION  
APPLICATION FOR SOURCE MATERIAL LICENSE

L&R File Copy

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.



1. (Check one) <input type="checkbox"/> (a) New license <input type="checkbox"/> (b) Amendment to License No. _____ <input checked="" type="checkbox"/> (c) Renewal of License No. <u>D-769</u> <input type="checkbox"/> (d) Previous License No. _____		2. NAME OF APPLICANT <u>The Harshaw Chemical Company</u>	
3. PRINCIPAL BUSINESS ADDRESS <u>1945 East 97th Street</u>		4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED <u>113 John St. Elyria, Ohio</u> <u>1000 Harvard Ave., Cleveland, Ohio</u>	
5. BUSINESS OR OCCUPATION <u>Chemical Mfg &amp; Sales</u>		6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP (b) AGE	
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED <u>For Resale and Use as an Analytical Agent</u>			
8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE.			
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)
NORMAL URANIUM	Acetate	Reagent 56%	25
	Nitrate	" 47%	15
URANIUM DEPLETED IN THE U-235 ISOTOPE			
THORIUM	Nitrate	Tech. 42%	10
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)			50
9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL HAZARDS ASSOCIATED WITH EACH STEP OF THOSE OPERATIONS. <u>A small quantity is used as an analytical reagent when required in general research,</u> <u>Over 95% of the quantities held is for resale.</u>			
10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL). <u>Experienced Chemists</u>			
11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE: (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air monitoring and other survey equipment as appropriate. The description of radiation detection instruments should include the type of radiation detected and the range(s) of each instrument.) <u>All materials are stored under the supervision of our Director of Safety and in containers and locations posted as required in U. S. Atomic Energy Commission "Standards for Protection Against Radiation"</u>			
(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE (for film badges, specify method of calibrating and processing, or name supplier.) <u>No special instruments are employed</u>			



11(c). VENTILATION EQUIPMENT WHICH WILL BE USED IN OPERATIONS WHICH PRODUCE DUST, FUMES, MISTS, GASES, ETC.

Electric Fans

12. DESCRIBE PROPOSED PROCEDURES TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE AND PROPERTY AND RELATE THESE PROCEDURES TO THE OPERATIONS LISTED IN ITEM 9; INCLUDE:  
(a) PROCEDURES FOR USE OF NUCLEAR MATERIALS AND SAFETY FEATURES AND PROCEDURES TO AVOID NONNUCLEAR ACCIDENTS SUCH AS FIRE, EXPLOSION, ETC., IN SOURCE MATERIAL STORAGE AND PROCESSING AREAS.

Individual Laboratory stocks are very small and no special safety procedures are followed.

Resale stocks are stored in a separate cabinet, in a brick building equipped with a sprinkler system.

(b) EMERGENCY PROCEDURES IN THE EVENT OF ACCIDENTS WHICH MIGHT INVOLVE SOURCE MATERIAL.

None have been established

(c) DETAILED DESCRIPTION OF RADIATION SURVEY PROGRAM AND PROCEDURES.

None

13. WASTE PRODUCTS: If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here ☐ and explain on a supplemental sheet:

(a) Quantity and type of radioactive waste that will be generated. None

(b) Detailed procedures for waste disposal.

14. IF PRODUCTS FOR DISTRIBUTION TO THE GENERAL PUBLIC UNDER AN EXEMPTION CONTAINED IN 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:

(a) PERCENT SOURCE MATERIAL IN THE PRODUCT AND ITS LOCATION IN THE PRODUCT.

(b) PHYSICAL DESCRIPTION OF THE PRODUCT INCLUDING CHARACTERISTICS, IF ANY, THAT WILL PREVENT INHALATION OR INGESTION OF SOURCE MATERIAL THAT MIGHT BE SEPARATED FROM THE PRODUCT.

(c) BETA AND BETA PLUS GAMMA RADIATION LEVELS (Specify instrument used, date of calibration and calibration technique used) AT THE SURFACE OF THE PRODUCT AND AT 12 INCHES.

(d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISSOCIATED FROM THE MANUFACTURED PRODUCT.

### CERTIFICATE

(This item must be completed by applicant)

15. 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 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

The Harshaw Chemical Company

(Applicant named in Item 2)

Dated \_\_\_\_\_

BY: H. C. Homberg

*H. C. Homberg*

Asst. Treasurer and Controller

(Title of certifying official authorized to act on behalf of the applicant)

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.

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4020

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### Electric Fans

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(Applicant named in Item 2)

H. C. Homberg

BY:

Dated \_\_\_\_\_

Ass't. Treasurer and Controller

(Title of certifying official authorized to act on behalf of the applicant)

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FROM: <b>Harshaw Chemical Company Cleveland 8, Ohio</b>		DATE OF DOCUMENT: <b>May 18, 1962</b>		DATE RECEIVED <b>May 21, 1962</b>		NO.: <b>4920</b>	
TO: <b>S. S. A. E.C. DEAR</b>		LTR. <input checked="" type="checkbox"/> MEMO. <input type="checkbox"/> REPORT <input type="checkbox"/> OTHER <input type="checkbox"/>		ORIG. <input checked="" type="checkbox"/> CC. <input type="checkbox"/> OTHER <input type="checkbox"/>		<b>2 cys. verified</b>	
CLASSIF.: <b>Unc.</b>		POST OFFICE		ACTION NECESSARY <input checked="" type="checkbox"/> NO ACTION NECESSARY <input type="checkbox"/>		CONCURRENCE <input type="checkbox"/> COMMENT <input type="checkbox"/> DATE ANSWERED BY:	
REG. NO.		FILE CODE: <b>42-1066</b>					
DESCRIPTION: (Must Be Unclassified) <b>Lab. wastes:</b>		REFERRED TO		DATE		RECEIVED BY	
		<b>Rebinder:</b>		<b>5-21-62</b>			
		<b>w/ file cy. &amp; folder</b>					
		<b>1-compliance copy</b>					
		<b>Doulor</b>		<b>5/29</b>			
ENCLOSURES: <b>Form AED-2 req. removal of license B-769 to cover a total of 50 lbs. of source matl. for use as an analytical agent. (1 cys. rec'd)</b>							
REMARKS: <b>Mail Room Distribution: 2-FIN Copy</b>							

U. S. ATOMIC ENERGY COMMISSION

MAIL CONTROL FORM FORM AEC-3265 (8-60)

3/109