

THE HARSHAW CHEMICAL COMPANY

1945 EAST 97TH STREET
CLEVELAND 6, OHIO
RANDOLPH 1-8300

December 10, 1958

United States Atomic Energy Commission
Washington 25, D.C.

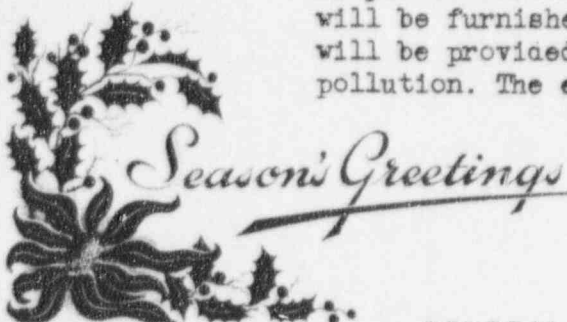
Attention: Mr. J.C. Delaney
Chief, Nuclear Materials Section
Licensing Branch
Division of Licensing and Regulation

RECEIVED NO. 40-2589

Dear Mr. Delaney:

In answer to your letter of November 5, 1958 we submit the following information so that we may obtain a license to purchase quantities of source material.

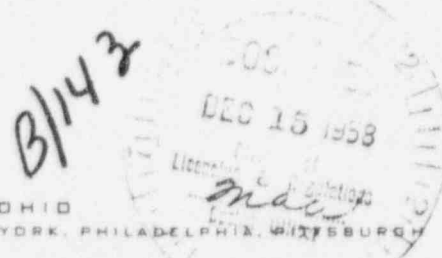
1. The quantity of material that we are requesting is 100,000 pounds per year.
2. The material is to be handled in three different ways. Part of it will be resold and reshipped in the original packages. Part will be repackaged into smaller size standard packages (ten pounds or twenty-five pounds). All of the repackaging will be done in Elyria. Another portion will be incorporated into prepared glaze stains and various ceramic colors which will be processed in our ceramic color center (Elyria) for direct sale to ceramic customers. Moderate amounts of both the original uranium compounds and the prepared ceramic colors will have to be repackaged into sample packages and given to potential customers. Only unbroken packages will be warehoused in some of our various locations.
3. The safeguarding of our employees against dust and contamination through the escape of radioactive materials will be handled as follows. We plan to have yearly clinical examinations and urinalysis tests. There will be a personal hygiene program set up. Closely monitored daily showers will be required. The clothing will be changed before entering the work room containing the source material and upon leaving same. Footwear will be provided to be worn in the working area only. There will be no eating, storing or preparation of food in the work area. Smoking and the use of tobacco will be prohibited. Washing will be required before eating, drinking, smoking or the use of tobacco. Proper facilities for eating, drinking, smoking and the use of tobacco will be furnished. Adequate mechanical ventilation of the work areas will be provided. There will be dust collectors for controlling air pollution. The employees will be furnished with Bureau of Mines



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PDR FOIA
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Approved Respirators with ultra filters. The cleaning of the areas will be done by vacuum cleaning, water or steam.

4. The degree of air contamination will be monitored by M.S.A. Electrostatic Precipitators. Collections will be analyzed chemically or by radiological instrumentation for uranium content. A selection of radioactive equipment for the monitoring of radioactivity is being made from the Encyclopedia of Instrumentation for Industrial Hygiene for determining the concentration of gamma rays.
5. A minor portion of the 100,000 pounds will be used in the preparation of glaze stains and various ceramic colors. It is estimated that the concentration of the material to be discarded from this will be less than 2% of the original uranium content. We are in the process of investigating the sources of professional disposal firms to have them take care of our waste material. We are also checking the laws of the various cities and states in which we will operate and the Industrial Commission of Hygiene and Safety.

We hope that these answers will suffice. If there is any more information needed please let us know and we will be glad to supply the answers. We are very anxious to get this program going. Thank you for your attention to this matter.

Very truly yours,

THE HARSHAW CHEMICAL COMPANY



Andrew Ayllies
Security Agent

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