

Office Memorandum • UNITED STATES GOVERNMENT

TO : Lyall Johnson, Chief, Licensing Branch
Division of Licensing and Regulation

DATE:

SEP 24 1958

FROM : Lester R. Rogers, Chief, Radiation Safety Branch
Division of Licensing and Regulation

SUBJECT: THE HARSHAW CHEMICAL COMPANY, 1945 EAST 97TH STREET, CLEVELAND 6,
OHIO - DOCKET NO. 40-2589

SYMBOL: DLR:CMF

Conclusion

The information contained in the subject applications is satisfactory from a radiological safety standpoint.

The following information has been considered in the review of the two applications:

Material

100 lbs. of UO_2 and 25 lbs. of UF_4 .

Purpose

Research and development work on the use of uranium in ceramic glazes and glass.

Equipment

Cutie pie, geiger counters, film badges, spray booth, exhausted weighing and mixing areas.

Safety Procedures

The weighing and mixing are done in a segregated room provided with duct dust exhaust at weighing and mixing level. All spraying is done in a spray booth, which they have found satisfactory for spraying high lead and silica glazes.

Waste Disposal

Approximately 5 grams or 3.3 uc of uranium per day would be produced by washing the mill. The method of disposal is not stated. Due to this small amount to be disposed of per day, this amount of uranium is not a hazard. It can be diluted to mpc for drinking water by 122 gals. of water (i.e. 7×10^{-6} uc/cc).

RADIATION SAFETY BR.
9/25/58

RADIATION SAFETY CHECK

Company THE HARSHAW CHEMICAL CO.
CLEVELAND OHIO

Docket No. 40-2589

References LTR. dated ~~10/1~~ 10/1/58

Material Requested depleted uranium Quantity 100,000 lbs.

Weight % _____ Form V308 or VF Quantity on hand at any one time: _____

Intended Use Research on manufacture of ceramic colors

FACILITIES Not Required _____ See Comments _____ Adequate ☒

In Application: Not Required: _____

Hot cell ☒
Vented area _____
Storage ☒

EQUIPMENT Not Required _____ See Comments _____ Adequate ☒

In Application: Not Required: _____

Processing ☒
Hood ☒
Dry box ☒
Filter ☒
Resp. Prot. ☒
Strge. Cont. ☒
Handling ☒

INSTRUMENTS Not Required _____ See Comments _____ Adequate ☒

In Application: Not Required: _____

Beta gamma ☒
Alpha ☒
Neutron ☒
Air samplers ☒
Countg. (Scalers) ☒
Fluorimeter ☒

ADMINISTRATIVE PROCEDURES Not Required ☒ See Comments _____ Adequate ☒ B/140

RADIATION PROTECTION PROCEDURES Not Required _____ See Comments _____ Adequate ☒

In Application: Not Required: _____

Shipping ☒
Handling ☒
Processing ☒
Emergency ☒