



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION III
801 WARRENVILLE ROAD
LISLE, ILLINOIS 60532-4351

March 18, 1996

MEMORANDUM TO: License File No. C-04284 (Terminated), Docket No. 040-02589

THRU: *J. W. McCormick-Barger*
J. W. McCormick-Barger, Chief, Decommissioning Branch

FROM: Kenneth J. Lambert, Radiation Specialist *Kenneth J. Lambert*

SUBJECT: CLOSE OUT OF LICENSE FILE NO. C-04284 (HARSHAW CHEMICAL COMPANY)

This terminated loose material license file was forwarded to Region III for followup because activities under this license could have caused some contamination and there was no closeout survey or inspection in the file. The license was issued to authorize the possession of up to 100 pounds of depleted uranium oxide and up to 25 pounds of depleted uranium tetrafluoride for research and development of ceramic glasses and glass. An amendment was issued which authorized the possession of up to 100,000 pounds of source material for resale, manufacturing and sale of ceramic colors, and the preparation of glazed tiles for experimental purposes, but not for resale.

A review of the license file identified that there were two locations of use in Ohio: one in Elyria, Ohio, and the other at 1945 East 97th Street, Cleveland, Ohio.

The location in Elyria, Ohio, according to license file documents, was for receiving, repacking and shipping of depleted uranium (DU) materials. A representative of Englehard Corporation, the current successor to Harshaw Chemical Company (HCC), was questioned whether the location in Elyria was owned by Englehard. The representative indicated the location was owned by Englehard and was a chemical production plant. The Englehard representative indicated that he would attempt to obtain information on where the radioactive materials may have been used at the facility. Attached is a letter from Englehard which indicated that only one drum of radioactive materials was received at the plant, the drum was never opened, and was returned to the shipper within several days.

The location at 1945 East 97th Street, Cleveland, Ohio was owned by the Cleveland Clinic Foundation. The Cleveland Clinic possesses Byproduct Material License No. 34-00466-01. A discussion with the licensee's RSO indicated that the building at the above address was formerly owned by HCC, and that the question of whether there was radioactive contamination present was discussed in late 1992. The building had undergone remediation and information was sent to the NRC. The RSO was requested to provide a copy of the information previously sent to the NRC, as a review of the license file did not locate any information regarding the remediation of the building.

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Attached is copy of a the final survey report for the remediation of the contamination in the former Harshaw Building. The survey and remediation were performed in 1985.

Radioactive contamination was identified in only four rooms of the building. The rooms were remediated and were resurveyed with measurement results within acceptable guidelines according to the report.

A review of the final survey report indicated that the survey appeared adequate to identify radioactive materials in excess of the unrestricted use release criteria. Based on the information in the final survey report and that the building has been renovated, Region III believes additional surveys are not warranted.

Based on the fact that the location in Elyria, Ohio, only received one drum of radioactive materials, which was never opened and returned to the vendor within a few days, and that the Cleveland location was remediated and a final survey performed, Region III considers this file closed and intends no further action regarding this issue.

Attachments:

- A) Engelhard Letter
- B) Cleveland Clinic Radiation Contamination Survey

cc w/atts: P. F. Goldberg, NMSS

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

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


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Uranium calcines or fired ceramic pieces would be produced in our Laboratory and the only radioactive waste materials would result from ball mill washing. We have determined that the maximum amount of Uranium which might be so washed could not exceed five grams during any one day.

We hope that this information will be sufficient. We will appreciate prompt attention to our request for a Source Material License to purchase one hundred pounds of Uranium Oxide, Depleted from Davison Chemical. Thank you.

Very truly yours,

THE HARSHAW CHEMICAL COMPANY


Andrew Ayllies
Security Agent

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