

AUG 22 1974

L:FFRB:JER
40-2061
STA-583

POOR ORIGINAL

Kerr McGee Chemical Corporation
ATTN: Mr. L. E. Craig
Vice President Chemicals Manufacturing
Kerr McGee Center
Oklahoma City, Oklahoma 73102

Gentlemen:

Enclosed is USAEC Source Material License No. STA-583 as renewed and modified in accordance with your letter request and application dated May 10, 1974.

As indicated in our January 15, 1974 meeting with Messrs. Vreeland and Shelley, we will be pleased to discuss your proposed method for permanent disposal of the thorium containing waste solids as these plans are developed.

Your June 13, 1974 request for authorization to dispose of your W-1 sales office and laboratory building located at 185 West Washington Street, West Chicago will be acted upon after the results of your radiation survey have been verified by AEC Regulatory Operations personnel.

Sincerely,

L. C. Rouse, Chief
Fuel Fabrication and Reprocessing
Branch
Directorate of Licensing

Enclosure

Distribution
PDR
~~_____~~
Docket File #40-2061
RO:HQ (2) ✓

L:FFRB R/F
L:FM R/F
LCRouse
JERothfleisch

State Health Official - Illinois

90018249

OFFICE ▶	L:FFRB <i>JER</i>	L:FFRB <i>JER</i>				
SUPNAME ▶	JERothfleisch	LCRouse				
DATE ▶	mh 8/22/74	8/22/74				<i>[Signature]</i>

AUG 26 1974

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**KERR-MCGEE CHEMICAL CORP.**

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73102

*Backup for
License Renewal
dtd-8-22-74*

L. E. CRAIG
VICE-PRESIDENT
CHEMICALS MANUFACTURING

June 13, 1974

Director, Division of Materials Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Re: License No. STA-583
Renewal Application, Docket No. 40-2061

Dear Sir:

The subject license and renewal application covers our manufacturing facilities located at 258 Ann St., West Chicago, Illinois. We also own a building at 185 West Washington St. in West Chicago. This building was used as a sales office and laboratory. We refer to it as our W-1 Building.

We wish to dispose of this building at 185 West Washington St. We do not believe that this building was included in our license. If it was, in fact, part of our original license, we now wish to have it removed from the license.

This building has been surveyed for radiation and is within the decontamination guidelines issued by your Commission for release for unrestricted use. The radiological survey report prepared by the Eberline Instrument Corporation is attached.

We would like your prompt approval to turn this building over to our Real Estate Department for sale.

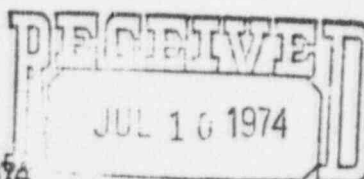
LEC/jr

Very truly yours,

Act.

L. E. Craig

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JUL 15 1974

Division of Regulatory Operations
Room IV

2-09

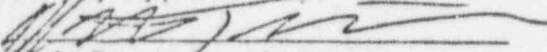
RADIOLOGICAL SURVEY

FOR

KERR MC GEE FACILITY
W-1 Building
West Chicago, Illinois

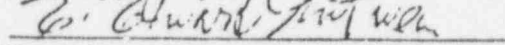
SUBMITTED BY
EBERLINE INSTRUMENT CORPORATION
MIDWEST FACILITY

Survey Approved by:



Milt Trautman, Manager
Midwest Facility

Survey Completed by:



E. Edward Gutwein, PhD
Environmental Health Physicist

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KERR MC GEE FACILITY

W-1 Building -

Second Survey

On 6 May 1974, the sink in the Special Products Laboratory was surveyed for the second time along with the laboratory directly behind the SPL. The instrumentation used was an Eberline E-530 for beta-gamma detection and an Eberline PAC-1S for alpha detection. Random smears were made of these areas to determine the removable activities. The smears were beta and alpha counted in a Beckman Wide Beta II.

The results from the survey have been listed below. All alpha determinations made with the PAC-1S have been reported in disintegrations per minute by dividing the original readings in counts per minute by the manufacturer's suggested efficiency of 28% for a distributed Pu-239 source.

A. Special Products Laboratory, W-1 Building

The preliminary survey of this area indicated some contamination of a sink along the West wall. Decontamination efforts did not significantly reduce the radioactivity level; therefore, the sink was removed. The following survey readings and removable activity levels were taken from the bench top where the sink was located.

Average Alpha Activity:	< 2000 dpm/100 cm ²
High Alpha Activity:	15000 dpm/100 cm ²
Average Beta-Gamma Activity:	< 0.1 mR/hour
High Beta-Gamma Activity:	0.5 mR/hour
Removable Activity - Alpha & Beta-Gamma:	< 1000 dpm/cm ²

B. Floor, Laboratory Directly Behind the SPL, W-1 Building

The previous survey indicated some alpha contamination of the laboratory floor. Wooden support poles also had radioactivity around them which appeared to be removable. To lower the contamination level, the floor was scrubbed with a complexing agent, EDTA*, the poles were removed as was a sink located along the East wall.

Average Alpha Activity:	< 5000 dpm/100 cm ²
Average Beta-Gamma Activity:	< 0.1 mR/hour
(No particularly high alpha or beta-gamma readings were recorded).	
Removable Activity - Alpha & Beta-Gamma:	< 1000 dpm/100 cm ²

* Ethylenediamine Tetraacetic Acid

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CONCLUSIONS

Based on the preliminary survey of the entire building and on the follow-up survey of the previously-mentioned areas, the fixed and removable activity levels in Kerr-McGee's W-1 Building, West Chicago, Illinois, appear to be within the decontamination guidelines issued by the U.S. Atomic Energy Commission for release for unrestricted use.

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