



THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN

November 30, 1959

DOCKET NO. 40-17

Mr. H. L. Price, Director
U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D.C.

Dear Mr. Price:

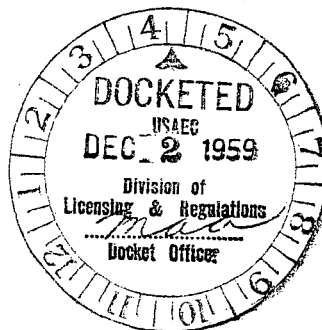
Enclosed are three copies of Form AEC-2 for the renewal of our License No. C-2782 which expires January 1, 1960. Please return the new license to my attention.

Thanks very much.

Very truly yours,

W. Otis Heath
Statistician

Encs: 3



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APPLICATION FOR REG LICENSE TO
TRANSFER, DELIVER, EXPORT, OR RECEIVE
URANIUM OR THORIUM SOURCE MATERIAL

Pursuant to Code of Federal Regulations, Title 10 -
Atomic Energy, Part 40 - Control of Source Material

C-2782

INSTRUCTIONS

File two (2) copies of this application with the U. S. Atomic Energy Commission, P. O. Box 30, American Station, New York 23, N. Y. This application may be used for an initial license or for the renewal of a license. In the case of a renewal, this application should be received by the Commission at least 30 days before the expiration of the previous license. Complete blocks 1, 2, 3, 6, and 7 if you contain two or more of the activities of Producer, Processor, Distributor, Exporter or Consumer, complete each of the applicable blocks numbered 4 through 5.

TO: U. S. Atomic Energy Commission
P. O. Box 30, American Station,
New York 23, N. Y.

NAME AND ADDRESS OF APPLICANT
(Street, City, Zone, State)
**The Dow Chemical Company
Magnesium Department
Midland, Michigan
Attn: W. Otis Heath**

1. INVENTORY. INVENTORY OF SOURCE MATERIAL RAW AND REFINED, AS OF **October 31, 1959**
(Specify date of last inventory)

INSTRUCTION - Include all source material in your possession or under your control, regardless of location. Include any source material you have possession of but which is owned by others, whether or not they are licensed by the Commission. Please specify that part of your inventory which is owned by other persons, listing the names, addresses, and quantities owned by each. Do not include in this inventory any raw source material that has yet removed from its place of deposit in nature.

(a) Raw Source Material

DESCRIPTION OF MATERIAL	NATURAL ISOTOPE URANIUM OR THORIUM	PERCENTAGE IN INVENTORY (Percent Total)	NAME AND ADDRESS OF OWNER IF DIFFERENT FROM APPLICANT

(b) Refined Source Material

DESCRIPTION OF MATERIAL	ISOTOPE URANIUM OR THORIUM	PERCENTAGE IN INVENTORY (Percent Total)	NAME AND ADDRESS OF OWNER IF DIFFERENT FROM APPLICANT
Thorium Metal Sintered Pellets	Pure	97% Th	12,580
Thorium Scrap	Comm.	3%	1,012
Thorium Fluoride	Comm.	71% Th	9,480
Thorium Scrap	Pure	100%	114

6. **PROCESSORS.** IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO CHEMICALLY PROCESS SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 4.

(b) THE APPLICANT CHEMICALLY PROCESSES SOURCE MATERIAL IN PLANTS LOCATED AT: (These plants include all of the plants in which the applicant will process source material under the terms of any license issued by the Commission.)

1. Midland, Michigan

2. Bay City, Michigan

3. Madison, Illinois

4.

(c) IN THE EVENT RESIDUES AND TAILINGS ARE TO BE DISCARDED PLEASE DESCRIBE THESE RESIDUES AND TAILINGS, THE FREQUENCY OF DISCARDS, THE PROBABLE SOURCE MATERIAL CONTENT AND THE REASONS FOR NOT CONSERVING THE MATERIAL.

7. **DISTRIBUTORS.** IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO RECEIVE SOURCE MATERIAL FOR RESALE ONLY, WITHOUT ANY INTERMEDIATE PROCESSING, CHECK THIS BOX AND COMPLETE BLOCKS 1, 2, 3, AND 4.

8. **CONSUMERS.** IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO USE SOURCE MATERIAL IN CHEMICAL ANALYSIS OR IN THE MANUFACTURE OF OR FOR INCORPORATION IN ANY PRODUCT, CHECK THIS BOX AND SUPPLY THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 4.

DESCRIPTION OF SOURCE MATERIAL TO BE USED	ESTIMATED ANNUAL REQUIREMENTS (Lb.)	USE
		INDICATE WHETHER (1) AS ANALYTICAL REAGENT, (2) FOR INCANDESCENT MAN- TLES, (3) MEDICINAL OR (4) OTHER. IN THE CASE OF OTHER USES, DESCRIBE THE PRODUCT, THE SOURCE MATERIAL CONTENT, AND THE MANNER IN WHICH THE PRODUCT WILL BE USED.
<u>Thorium Metal</u>	<u>135,000</u>	<u>Magnesium Alloys for Structural Use</u>
<u>Thorium Fluoride or Thorium Oxide</u>	<u>2,000</u>	<u>" " "</u>

9. **EXPORTERS.** IF YOU REQUEST AN ATOMIC ENERGY COMMISSION LICENSE TO EXPORT SOURCE MATERIAL, CHECK THIS BOX AND SUPPLY THE BALANCE OF THE INFORMATION REQUESTED IN THIS BLOCK AS WELL AS THE INFORMATION REQUESTED IN BLOCKS 1, 2, 3, AND 4. (Note that approval on Form AEC-7 is required for each individual export transaction.)

Name and address of each of your agents who for your account will prepare Department of Commerce "Shipper's Export Declaration" (Form 7525-V), will request permission to export on Form AEC-7, and will ship source material.

NAME OF AGENT	ADDRESS

5. CERTIFICATION AND AGREEMENT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION AND AGREEMENT ON BEHALF OF THE APPLICANT, (1) CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH CODE OF FEDERAL REGULATIONS, TITLE 10 - ATOMIC ENERGY, PART 110 - CONTROL OF SOURCE MATERIAL; (2) CERTIFY THAT ALL INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND COMPLETE TO THE BEST OF THEIR KNOWLEDGE AND BELIEF AND (3) AGREE THAT IN THE EVENT THAT THIS APPLICATION IS APPROVED BY THE ATOMIC ENERGY COMMISSION, AND A LICENSE IS ISSUED, THAT THE ONLY AUTHORIZED REPRESENTATIVES OF THE COMMISSION MAY FREELY INSPECT AT ALL REASONABLE TIMES FACILITIES AND RECORDS, TAKE SAMPLES FOR ASSAY, AND DO SUCH OTHER THINGS AS WILL, IN THE OPINION OF THE COMMISSION, INSURE THAT ALL SOURCE MATERIAL HANDLED BY THE APPLICANT UNDER THE AUTHORITY OF HIS LICENSE IS PROPERLY ACCOUNTED FOR AND USED.

November 30, 1959

(Date)

BY *R. B. Ryan*
(Signature of applicant)
The West Chemical Company
Treasurer

(Title)

Section 10 (A) of the United States Criminal Code, 18 U. S. C. Sec. 86, makes it a criminal offense to make a willfully false statement or representation to any department or agency of the United States or to any matter within its jurisdiction.

(FOR GOVERNMENT USE ONLY)

UNITED STATES OF AMERICA
ATOMIC ENERGY COMMISSION
SOURCE MATERIAL LICENSE

LICENSE NO. _____