

# PETROTOMICS COMPANY

WIDEWATER OIL COMPANY • MANAGING PARTNER  
P. O. DRAWER 2450

March 9, 1966

United States Atomic Energy Commission  
Division of Licensing and Regulation  
Washington, D. C. 20545

File Copy

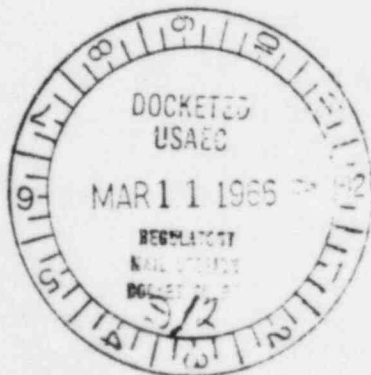
Reference: Docket No. 406659

ATTENTION: Director, Division of Licensing and Regulation

Gentlemen:

Attached is the application in quadruplicate for renewal of Petrotomics Company Source Material License No. SUA-551.

Completion of Petrotomics Contract with the Atomic Energy Commission will be accomplished before December 31, 1966; therefore, renewal of subject License No. SUA-551 will be necessary only for the period May 31, 1966 to December 31, 1966.



Very truly yours,

PETROTOMICS COMPANY

By

G. K. Coates  
Project Manager

GKC:lad

Attachments 4

Copy Provided  
Comp. Bureau (V)

3/15/66  
SK

8507310043 850530  
PDR FOIA  
BURR85-229 PDR

ACKNOWLEDGED

UNITED STATES ATOMIC ENERGY COMMISSION

APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

<p>1. (Check one)</p> <p><input type="checkbox"/> (a) New license</p> <p><input type="checkbox"/> (b) Amendment to License No. _____</p> <p><input checked="" type="checkbox"/> (c) Renewal of License No. <u>SUA-551</u></p> <p><input type="checkbox"/> (d) Previous License No. _____</p>		<p>2. NAME OF APPLICANT</p> <p>Petrotomics Company</p>																	
<p>3. PRINCIPAL BUSINESS ADDRESS</p> <p>P. O. Drawer 2450</p> <p>Casper, Wyoming</p>		<p>4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED</p> <p>Carbon County, Shirley Basin, Wyoming</p>																	
<p>5. BUSINESS OR OCCUPATION</p> <p>Mining &amp; Milling Uranium Ore</p>		<p>6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP</p> <p>(b) AGE</p>																	
<p>7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED</p> <p>Magnesia Diuranate, (Uranium Yellow Cake). To be delivered to Procurement Division of Atomic Energy Commission, Grand Junction, Colorado, or other designated location.</p>																			
<p>8. STATE THE TYPE OR TYPES, CHEMICAL FORM OR FORMS, AND QUANTITIES OF SOURCE MATERIAL YOU PROPOSE TO RECEIVE, POSSESS, USE, OR TRANSFER UNDER THE LICENSE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">(a) TYPE</th> <th style="width: 25%;">(b) CHEMICAL FORM</th> <th style="width: 25%;">(c) PHYSICAL FORM (Including % U or Th.)</th> <th style="width: 25%;">(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)</th> </tr> </thead> <tbody> <tr> <td>NORMAL URANIUM</td> <td>Magnesia Diuranate (Uranium Yellow Cake)</td> <td>-1/2" Dried Yellow Cake 65-77% U</td> <td>Unlimited</td> </tr> <tr> <td>URANIUM DEPLETED IN THE U-235 ISOTOPE</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>THORIUM</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>				(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)	NORMAL URANIUM	Magnesia Diuranate (Uranium Yellow Cake)	-1/2" Dried Yellow Cake 65-77% U	Unlimited	URANIUM DEPLETED IN THE U-235 ISOTOPE	N/A	N/A	N/A	THORIUM	N/A	N/A	N/A
(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)																
NORMAL URANIUM	Magnesia Diuranate (Uranium Yellow Cake)	-1/2" Dried Yellow Cake 65-77% U	Unlimited																
URANIUM DEPLETED IN THE U-235 ISOTOPE	N/A	N/A	N/A																
THORIUM	N/A	N/A	N/A																
<p>(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds)</p> <p>Unlimited</p>																			
<p>9. DESCRIBE THE CHEMICAL, PHYSICAL, METALLURGICAL, OR NUCLEAR PROCESS OR PROCESSES IN WHICH THE SOURCE MATERIAL WILL BE USED, INDICATING THE MAXIMUM AMOUNT OF SOURCE MATERIAL INVOLVED IN EACH PROCESS AT ANY ONE TIME, AND PROVIDING A THOROUGH EVALUATION OF THE POTENTIAL HAZARDS ASSOCIATED WITH EACH STEP OF THOSE OPERATIONS.</p> <p>Crushing, grinding, acid leaching, counter current decantation, clarification, solvent extraction, precipitation, filtration, and drying of ore to yellow cake. Circuit inventory estimated at less than 20,000 lbs. U<sub>3</sub>O<sub>8</sub>. Stock on hand at less than 500,000 lbs. U<sub>3</sub>O<sub>8</sub> in ore and less than 200,000 lbs. U<sub>3</sub>O<sub>8</sub> in yellow cake. Surveys have indicated that the only potentially high airborne radiation areas existing are in yellow cake drying and packaging.</p>																			
<p>10. DESCRIBE THE MINIMUM TECHNICAL QUALIFICATIONS INCLUDING TRAINING AND EXPERIENCE THAT WILL BE REQUIRED OF APPLICANT'S SUPERVISORY PERSONNEL INCLUDING PERSON RESPONSIBLE FOR RADIATION SAFETY PROGRAM (OR OF APPLICANT IF APPLICANT IS AN INDIVIDUAL)</p> <p>The qualifications required will be sufficient education, and/or experience to be able to perform the duties of conducting adequate surveys and evaluating results on the basis of federal radiation protection regulations as set forth in Title 10, CFR, Part 20.</p>																			
<p>11. DESCRIBE THE EQUIPMENT AND FACILITIES WHICH WILL BE USED TO PROTECT HEALTH AND MINIMIZE DANGER TO LIFE OR PROPERTY AND RELATE THE USE OF THE EQUIPMENT AND FACILITIES TO THE OPERATIONS LISTED IN ITEM 9. INCLUDE (a) RADIATION DETECTION AND RELATED INSTRUMENTS (including film badges, dosimeters, counters, air monitoring and other survey equipment as appropriate. The descriptions of radiation detection instruments should include the type of radiation detected and the range(s) of each instrument.)</p> <p>As set forth in Petrotomics Company License, No. SUA-551, dated March 8, 1962, and renewed June 7, 1963.</p>																			
<p>(b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE (for film badges, specify method of calibrating and processing, or name supplier.)</p> <p>Stated in above item 11(a)</p>																			

FROM: **Petroleum Company**  
**Casper, Wyoming**

DATE OF DOCUMENT

**3-9-66**

DATE RECEIVED

**3-11-66**

NO.

**743**

LTR

MEMO

REPORT

OTHER

**X**

**2 application**

ORIG.

CC

OTHER

**1**

**3 cys. reproduced**

ACTION NECESSARY ☐

CONCURRENCE ☐

DATE ANSWERED

NO ACTION NECESSARY ☐

COMMENT ☐

BY

CLASSIF.

**J**

POST OFFICE

REG. NO.

FILE CODE

**40-6659**

DESCRIPTION: (Must Be Unclassified)

**Ltr. req. 6mos. extension of Lic.  
GJA-551 and trans:**

REFERRED TO

DATE

RECEIVED BY

DATE

**Mussabauer**

**3/11**

**w/r file cy. & file**

**1-compliance**

**1-extra**

ENCLOSURES:

**AEC-2 dtd. 3-1-66 to cover unlimited  
uranium Yellow Cake.**

**(1 cys. rec'd)**

REMARKS:

**Distribution: 1-1-A cy.**

**DO NOT REMOVE**

**ACKNOWLEDGED**

**743**

U. S. ATOMIC ENERGY COMMISSION

**MAIL CONTROL FORM**

FORM AEC-3265  
(8-60)