



L&P FILE COPY

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.

1. (Check one) <input type="checkbox"/> (a) New license <input type="checkbox"/> (b) Amendment to License No. _____ <input checked="" type="checkbox"/> (c) Renewal of License No. <u>SMA-551</u> <input type="checkbox"/> (d) Previous License No. _____		2. NAME OF APPLICANT <u>Petrotomics Company</u>	
		3. PRINCIPAL BUSINESS ADDRESS <u>P. O. Drawer 2450</u> <u>Casper, Wyoming</u>	
4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED <u>Carbon County, Shirley Basin, Wyoming</u>			
5. BUSINESS OR OCCUPATION <u>Mining & Milling Uranium Ore</u>		6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP (b) AGE 	
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED <u>Magnesia Diuranate (Uranium Yellow Cake) to be delivered to Procurement Division of Atomic Energy Commission, Grand Junction, Colorado, or other designated location.</u>			
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			
(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)	- $\frac{1}{2}$ " dried Yellow Cake 65-77% U.	1,000,000 Lbs. U ₃ O ₈ in Process & Stockpile
URANIUM DEPLETED IN THE U-235 ISOTOPE	N/A	N/A	N/A
THORIUM	N/A	N/A	N/A
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds) <u>1,000,000 Lbs. U₃O₈ in Yellow Cake form & Stockpile</u>			
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. <u>Crushing, grinding, acid leaching, counter current decantation, clarification, solvent extraction, precipitation, filtration, and drying of ore to Yellow Cake. Circuit inventory is estimated at 20,000 Lbs. U₃O₈. U₃O₈ stock on hand at 980,000 Lbs. U₃O₈ in ore and Yellow Cake. Surveys have indicated that the only process areas in which potential hazards exist are in the Yellow Cake filtration drying and packaging areas.</u>			
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. <u>The qualifications required will be sufficient education and, or, experience to be able to perform the duties of conducting adequate surveys, evaluating results on the basis of federal radiation protection regulations as set forth in Title 10CFR Part 20.</u>			
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 description of radiation detection instruments should include the type of radiation detected and the range(s) of each instrument.) <u>As set forth in Petrotomics Company application, dated, October 10, 1961, and in the two reports, concerning that application, dated, January 12, 1962, and February 7, 1962.</u>			
(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.) <u>Same as stated in above item 11.</u>			

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PDR FOIA
BURR85-229 PDR

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(a) TYPE	(b) CHEMICAL FORM	(c) PHYSICAL FORM (Including % U or Th.)	(d) MAXIMUM AMOUNT AT ANY ONE TIME (in pounds)
NORMAL URANIUM	<u>Magnesia Diuranate (Uranium Yellow Cake)</u>	<u>-1/2" dried Yellow Cake 65-77% U.</u>	<u>1,000,000 Lbs. U3O8 in Process & Stockpile</u>
URANIUM DEPLETED IN THE U-235 ISOTOPE	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
THORIUM	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds) <u>1,000,000 Lbs. U3O8 in Yellow Cake form & Stockpile</u>			
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FROM: Petroleum Company Casper, Wyoming		DATE OF DOCUMENT 2-21-63		DATE RECEIVED 2-25-63		NO.: 1430	
		LTR. X		MEMO:		REPORT:	
		X & A U-2				OTHER:	
TO: D. Hessemer		ORIG.: X		CC:		OTHER:	
		ACTION NECESSARY <input type="checkbox"/>		CONCURRENCE <input type="checkbox"/>		DATE ANSWERED:	
		NO ACTION NECESSARY <input type="checkbox"/>		COMMENT <input type="checkbox"/>		BY:	
CLASSIF.: U		POST OFFICE		FILE CODE: 40-6659			
REG. NO:							
DESCRIPTION: (Must Be Unclassified) Ltr. trans;		REFERRED TO		DATE		RECEIVED BY	
		Hessemer:		2-25-63			
		w/file cy.					
		1-compliance cy.					
ENCLOSURES: (4 cys. rec'd)							
For AEC-2 dtd. 2-21-63 req. renewal of							
lic. SUA-551 to cover 1,000,000 lbs. of							
U306 in Yellow cake form & Stockpile.							
REMARKS: Mail Room Distribution:							
1-100 Copy							