

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>SUB-986</u> <input type="checkbox"/> (d) Previous License No. _____		2. NAME OF APPLICANT KERR-McGEE NUCLEAR CORPORATION	
		3. PRINCIPAL BUSINESS ADDRESS McGee Tower Oklahoma City, Oklahoma 73125	
4. STATE THE ADDRESS(ES) AT WHICH SOURCE MATERIAL WILL BE POSSESSED OR USED Technical Division, Kerr-McGee Corp., 3301 Northwest 150th St. Oklahoma City, Oklahoma			
5. BUSINESS OR OCCUPATION Prod. of Nuclear Fuel Mat'ls.		6. (a) IF APPLICANT IS AN INDIVIDUAL, STATE CITIZENSHIP N/A	(b) AGE N/A
7. DESCRIBE PURPOSE FOR WHICH SOURCE MATERIAL WILL BE USED Thorium materials used in solvent extraction process for the separation and purification of thorium. Uranium material - provide radiation sources of known composition for experimental work, design and calibration of new instruments and related investigations.			
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)
NATURAL URANIUM	U_3O_8	Ore (0.1-0.4% U) Yellowcake (85-90%U)	500 pounds
URANIUM DEPLETED IN THE U-235 ISOTOPE			
THORIUM (ISOTOPE):	Natural Thorium $ThO_2, ThCl_4, Th(NO_3)_4$	Wet cakes and Solutions 10% Thorium	300 pounds
(e) MAXIMUM TOTAL QUANTITY OF SOURCE MATERIAL YOU WILL HAVE ON HAND AT ANY TIME (in pounds) 800 pounds (Uranium plus Thorium)			
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 RADIATION HAZARDS ASSOCIATED WITH EACH STEP OF THOSE PROCESSES. Thorium - Extracted with organic solvent from impure solutions; Solvent stripped with water, purify thorium by precipitation. Maximum of 30 lbs. with negligible radiation hazard. Uranium - diluted with portions of natural sand and used in the calibration & standardization of instruments; research on radiation measurements.			
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). Refer to addendum to original application for source material, dated May 8, 1969, paragraph 10, sheet 1.			
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 sampling, and other survey equipment as appropriate. The description of radiation detection instruments should include the instrument characteristics such as type of radiation detected, window thickness, and the range(s) of each instrument). Addendum to original application for Source Material, dated May 8, 1969, 11(a) sheet 1. Addendum to Amendment No. 2 dated September 13, 1972, paragraph 11(a), page 1 (b) METHOD, FREQUENCY, AND STANDARDS USED IN CALIBRATING INSTRUMENTS LISTED IN (a) ABOVE, INCLUDING AIR SAMPLING EQUIPMENT (for film badges, specify method of calibrating and processing, or name supplier). Addendum, May 8, 1969, paragraph 11(b), sheet 1 Addendum to Amendment No. 2 September 13, 1972, paragraph 11(b), page 1			



KERR-MCGEE CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73102

November 11, 1975

Mr. Jack M. Bell
Materials Branch
Division of Materials and Fuel Cycle Facility Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Bell:

If the subject matter of this letter does not fall in your province, I should appreciate your directing it to the proper party.

I am writing for clarification of questions raised by Part 170 of the NRC Rules and Regulations which we received recently as part of Supplement 06. I am responsible for two of Kerr-McGee's licenses:

Source Material License No. SUB-986
Byproduct Material License No. 35-12636-05

My basic question is: does Kerr-McGee owe any fees for these two licenses and, if so, how much? We did not receive the usual invoices in January of this year and have been uncertain as to what should be done about these fees.

Thank you for any clarification which you can give me.

Sincerely,

J. P. Hewlett
Administrative Manager
Physical Science and
Measurement Department

JPH:k1

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A #25



UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

KERR-MCGEE CORPORATION
KERR-MCGEE BUILDING
OKLAHOMA CITY OKLAHOMA

73102

PROGRAM CODE 11300
LICENSE NUMBER SUB-986
NOTICE DATE 03/11/74

SUBJECT: NOTICE OF EXPIRATION

YOUR SOURCE MATERIAL LICENSE EXPIRES ON 05/31/74.

IF YOU DESIRE TO CONTINUE YOUR PROGRAM USING SOURCE MATERIAL(S), AN APPLICATION FOR RENEWAL OF THE LICENSE SHOULD BE FILED WITH THIS OFFICE PURSUANT TO TITLE 10, CODE OF FEDERAL REGULATIONS, PART 40 SECTION 40.43(B). THE APPLICATION SHOULD BE SUBMITTED USING FORM AEC-2 IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED WITH THE FORM.

IT IS TO YOUR ADVANTAGE TO FILE SUCH AN APPLICATION AT LEAST THIRTY (30) DAYS BEFORE THE EXPIRATION OF YOUR EXISTING LICENSE. YOUR PROGRAM WILL THEN BE COVERED BY YOUR EXISTING LICENSE UNTIL ACTION IS TAKEN ON YOUR APPLICATION FOR LICENSE RENEWAL. IF AN APPLICATION IS RECEIVED LESS THAN THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE OF YOUR LICENSE AND CANNOT BE PROCESSED BEFORE YOUR EXISTING LICENSE EXPIRES, THIS COULD RESULT IN YOUR POSSESSING MATERIAL WITHOUT A VALID LICENSE.

IF YOU DO NOT WISH TO RENEW THE LICENSE, PLEASE COMPLETE THE ENCLOSED FORM AEC-314, CERTIFICATE OF DISPOSITION OF MATERIALS, AND RETURN TO THIS OFFICE

THIS NOTICE OF YOUR LICENSE EXPIRATION IS SENT FOR YOUR CONVENIENCE, BUT IT SHOULD NOT BE INTERPRETED THAT SIMILAR NOTICES WILL BE SENT IN THE FUTURE. THE RESPONSIBILITY FOR LICENSE RENEWAL REMAINS WITH THE LICENSEE.

PLEASE DISREGARD THIS NOTICE IF YOU HAVE OBTAINED AN AMENDMENT WHICH HAS EXTENDED THE EXPIRATION DATE OF ABOVE LICENSE OR IF A NEW LICENSE HAS BEEN ISSUED WHICH SUPERSEDES THE ABOVE LICENSE.

ENCLOSURES: AEC-314
AEC-2

MATERIALS BRANCH
DIRECTORATE OF LICENSING

8509L00064 3pp.

A #20

U.S. NUCLEAR REGULATORY COMMISSION
MATERIALS DATA INPUT INDUSTRIAL

1 - FILE COPY

A. TYPE OF ACTION AND IDENTIFICATION QUESTIONS

<input type="checkbox"/> NEW LICENSE	<input checked="" type="checkbox"/> AMENDMENT TO RENEW LICENSE	<input type="checkbox"/> AMENDMENT TO TERMINATE	<input type="checkbox"/> VOID	DOCKET NUMBER	MAIL CONTROL NUMBER	CHANGE NAME ADDRESS
<input type="checkbox"/> NEW LICENSE AND NEW LICENSEE	<input type="checkbox"/> OTHER AMENDMENT	<input type="checkbox"/> CLERICAL CHANGE NO AMENDMENT	3	040-08000	12833	<input checked="" type="checkbox"/>

B. INDICATIVE INFORMATION:

INDIVIDUALS	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
	NAME (LAST, FIRST, MIDDLE)	NAME (LAST, FIRST, MIDDLE)
ORGANIZATION	ORGANIZATION NAME (ALPHABETIC SEQUENCE)	
	DEPARTMENT OR BUREAU	
ADDRESS	BUILDING, STREET	CITY
		STATE
3	TYPE OF APPLICANT <input type="checkbox"/> U.S. GOVERNMENT AGENCY <input type="checkbox"/> INDIVIDUAL LICENSEE <input checked="" type="checkbox"/> ORGANIZATIONAL LICENSEE	DATE REQUEST RECEIVED
	INSTITUTION CODE	PENDING PROG. CODE
SECONDARY PROGRAM CODES AS REQUIRED:		ACTUAL PROG. CODE
#1		#2
#3		#4
#5		
7	LICENSE NUMBER	DATE LICENSE ISSUED OR ACTION COMPLETED
	SUB-380	EXPIRATION DATE

C. STATISTICAL INFORMATION:

MEDICAL CATEGORY:		
<input type="checkbox"/> FOR HUMAN USE ONLY	<input type="checkbox"/> FOR HUMAN AND NONHUMAN USE	<input type="checkbox"/> FOR NONHUMAN USE ONLY
POSSESSION OF THE MATERIAL IS AUTHORIZED IN ONE OF THE FOLLOWING AREAS:		
<input type="checkbox"/> SAME AS "STATE" IN ADDRESS	<input type="checkbox"/> ALL STATES	<input type="checkbox"/> ALL NON-AGREEMENT STATES
AND/OR IN THE STATE(S), TERRITORY(S), COUNTRY CHECKED BELOW:		
ALABAMA -AL	GEORGIA -GA	MARYLAND -MD
NEW JERSEY -NJ	SOUTH CAROLINA -SC	WYOMING -WY
ALASKA -AK	HAWAII -HI	MASSACHUSETTS -MA
NEW MEXICO -NM	SOUTH DAKOTA -SD	
ARIZONA -AZ	IDAHO -ID	MICHIGAN -MI
NEW YORK -NY	TENNESSEE -TN	AMERICAN SAMOA -AS
ARKANSAS -AR	ILLINOIS -IL	MINNESOTA -MN
NORTH CAROLINA -NC	TEXAS -TX	CANAL ZONE -CZ
CALIFORNIA -CA	INDIANA -IN	MISSISSIPPI -MS
NORTH DAKOTA -ND	UTAH -UT	GUAM -GU
COLORADO -CO	IOWA -IA	MISSOURI -MO
OHIO -OH	VERMONT -VT	PUERTO RICO -PR
CONNECTICUT -CT	KANSAS -KS	MONTANA -MT
OKLAHOMA -OK	VIRGINIA -VA	VIRGIN ISLANDS -VI
DELAWARE -DE	KENTUCKY -KY	NEBRASKA -NB
OREGON -OR	WASHINGTON -WA	
WASHINGTON, DC -DC	LOUISIANA -LA	NEVADA -NV
PENNSYLVANIA -PA	WEST VIRGINIA -WV	CANADA -CN
FLORIDA -FL	MAINE -ME	NEW HAMPSHIRE -NH
RHODE ISLAND -RI	WISCONSIN -WI	

D. POSSESSION LIMITS OF SOURCE AND SPECIAL NUCLEAR MATERIALS AND TRITIUM

SOURCE MATERIAL CEILING				SNM CEILING				
<input type="checkbox"/> GRAMS <input checked="" type="checkbox"/> KILOGRAMS				<input type="checkbox"/> GRAMS <input type="checkbox"/> KILOGRAMS				
<input type="checkbox"/> "X" HERE IF FOR POWER REACTOR								
AMOUNT	UNIT	CONFIG	ENRICH.	MAT	AMOUNT	UNIT	CONFIG	ENRICH.
U5	kg	G	S		kg	G	S	
U3	kg	G	S		kg	G	S	
PU	kg	G	S		kg	G	S	
UR	kg	G	S		kg	G	S	
TH	kg	G	S		kg	G	S	
	kg	G	S		kg	G	S	
	kg	G	S		kg	G	S	
	kg	G	S		kg	G	S	
H3		CURIES	MICROCURIES					
		MILLCURIES						

U5=U235, U3=U233, PU=PLUTONIUM, UR=URANIUM, TH=THORIUM, H3=TRITIUM, G=GRAMS,
kg=KILOGRAMS, S=SEALED, UNS=UNSEALED

A # 30

Kerr-McGee Nuclear Corporation
Nuclear Division
P.O. Box 25861
Oklahoma City, Oklahoma 73126

Attn: Mr. W. J. Shelley

Kerr-McGee Corporation
Physical Science & Measurement
P.O. Box 25861
Oklahoma City, Oklahoma 73125

Attn: Mr. J. P. Hewlett

Moss American
P.O. Box 25861
Oklahoma City, Oklahoma 73125

Attn: Mr. R. S. Hahn

Kerr-McGee Nuclear Corporation
P.O. Box 218
Grants, New Mexico 87020

Kerr-McGee Chemical Corporation
P.O. Box 610
Hobbs, New Mexico 88240

Attn: Mr. R. C. Green

Kerr-McGee Chemical Corporation
P.O. Box 25861
Oklahoma City, Oklahoma 73125

Attn: Mr. R. G. Smith

Kerr-McGee Corporation
Technical Center
P.O. Box 25861
Oklahoma City, Oklahoma 73125

Attn: Mr. Wylie Jennings

III-928 — OK
IA-826 — OK
35-12636-02 — OK
SHI-1174 — OK
SUB-1010 — OK
35-12636-03 — OK

SUB-986 — OK
35-12636-5 — OK

35-12636-04 OK

SUA-616

30-11069-01

See if
this was
trans
to S

STA-583 OK

35-12636-06 OK