



KERR-MCGEE CORPORATION

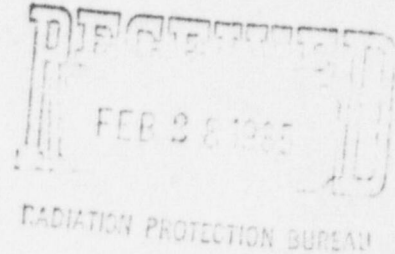
KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

ENVIRONMENT AND HEALTH MANAGEMENT DIVISION

February 22, 1985

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Felix Miera
Uranium Licensing Section
Radiation Protection Bureau
Environmental Improvement Division
State of New Mexico
P.O. Box 968
Santa Fe, New Mexico 87504-0968



Dear Mr. Miera:

Attached is an updated Application for Radioactive Material License (Form 016, revised 7/80) for our Ambrosia Lake Mill License SUA-616. The revision notes a change in Radiation Safety Officer (RSO) per Item 5. Please attach this to our license application.

Effective March 1, 1985, Mr. Frederick W. Ferdinand is the designated Radiation Protection Officer at our Ambrosia Lake operation, replacing Mr. James E. Cleveland. Mr. Cleveland has accepted a transfer to the Kerr-McGee Corporation Nuclear Licensing Department in Oklahoma City. He will continue to work closely with Mr. Ferdinand and will be active in discussions with the NMEID Radiation Protection Bureau concerning the mill relicensing activity.

If you need any additional information, please contact me at (405) 270-2623.

Sincerely,

J.C. Stauter, Director
Nuclear Licensing & Regulation

JCS:JEC/br

cc: Eloy Montoya

Attachment: Resume of F.W. Ferdinand
Form 016, revised 7/80

*Cleveland -
270-2637*

9803020049 850222
PDR ADOCK 04001917
C PDR

APPLICATION FOR RADIOACTIVE MATERIAL LICENSE

STATE OF NEW MEXICO
Environmental
Improvement Division

INSTRUCTIONS: Complete Items 1 through 17 if this is an initial application. If application is for renewal of a license, complete only Items 1 through 7 and indicate new information or changes in the program as requested in Items 8 through 16.

<p>1. (a) Name, street address, and phone number of applicant (Institution, Firm, Person, Dept., etc.)</p> <p>Quivira Mining Company Kerr-McGee Center P.O. Box 25861 Oklahoma City, Oklahoma 73125 (405) 270-2623</p>	<p>3. Previous License Numbers (If this is a renewal application, please so indicate and give current license no.)</p> <p>License SUA-616</p>				
<p>(b) Street address(es) and phone number at which Radioactive Material will be stored and used (P.O. Box numbers not acceptable)</p> <p>Uranium will be extracted from feed materials at the Ambrosia Lake Mill Facility. Address:</p> <p>Quivira Mining Company P.O. Box 218 Grants, New Mexico 87020 (505) 287-8851</p>	<p>4. Individual Users (name and title of individuals who will use or directly supervise use of Radioactive Material)</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; border-bottom: 1px solid black;">NAME</th> <th style="text-align: center; border-bottom: 1px solid black;">TITLE</th> </tr> </thead> <tbody> <tr> <td colspan="2">See Page 12-2 and Section 12.2 of the Ambrosia Lake Mill License Renewal Report March 1981, Revised October 1983.</td> </tr> </tbody> </table>	NAME	TITLE	See Page 12-2 and Section 12.2 of the Ambrosia Lake Mill License Renewal Report March 1981, Revised October 1983.	
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See Page 12-2 and Section 12.2 of the Ambrosia Lake Mill License Renewal Report March 1981, Revised October 1983.					
<p>Person to contact regarding application (include phone number)</p> <p>John C. Stauter (405) 270-2623</p>	<p>5. Radiation Protection Officer (attach resume of training and experience)</p> <p>Frederick W. Ferdinand</p>				

6.	(a) Element	Mass No.	(b) Form (Chem/Phys)	(c) Max. Activity	(d) Manufacturer & Model No. if sealed source
	Natural Uranium: 99.3% U ₂₃₈ 0.7% U ₂₃₅				

7. Use to be made of each item of Radioactive Material requested above

Uranium concentrate produced for commercial sale.

- (A) Nuclear physics, atomic structure, and interaction of radiation with matter
 (B) Radiation detection instrumentation, calibration, and standardization
 (C) Radiation protection, waste disposal, and survey and dosimetric procedures
 (D) Radiobiology including effects of radiation on the human body

NAME, TITLE DEGREE(S)

Where trained

Length of academic
training in A, B, C, D

Length of on-the-job
training in A, B, C, D

See Chapter 12 of the Ambrosia Lake Mill License Renewal Report March 1981, revised
October 1983.

9. Actual Experience with Radiation (actual use of radio isotopes) (attach resume)

<u>NAME</u>	<u>Isotope</u>	<u>Maximum activity</u>	<u>Place of experience</u>	<u>Length of experience</u>
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See Chapter 12 of the Ambrosia Lake Mill License Renewal Report March 1981, revised
October 1983.

10. Radiation Detection Instruments (use supplemental sheets if necessary)

<u>TYPE</u>	<u>Number available</u>	<u>Radiation detected</u>	<u>Sensitivity range mr/Hr</u>	<u>Window thickness mg/cm²</u>	<u>Use of instrument (e.g. monitoring, sur- veying, measuring)</u>
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See Chapter 12 of the Ambrosia Lake Mill License Renewal Report March 1981, revised
October 1983.

11. Method, frequency, and standard uses in calibrating instruments listed in Item 10 (attach necessary supplementary sheets)

See Chapter 12 of the Ambrosia Lake Mill License Renewal Report March 1981, revised
October 1983.

See Chapter 12 of the Ambrosia Lake Mill License Renewal Report March 1981, revised October 1983.

ITEMS 13 THROUGH 16 ARE TO BE ANSWERED ON SUPPLEMENTAL SHEETS

13. Facilities and Equipment. Describe laboratory facilities and remote handling equipment, storage containers, shielding, fume hoods, etc. (attach explanatory sketch of facility). See Chapter 3 of the License Renewal Report.
14. Radiation Protection Program. Describe the radiation protection program including control measures. If application covers sealed sources, submit leak testing procedures where applicable, name, training, and experience of person to perform leak test, and arrangements for performing initial radiation survey, servicing, maintenance and repair of the source. See Section 12.5 of License Renewal Report.
15. Waste Disposal. If a commercial waste disposal service is employed, specify name of company. Otherwise, submit detailed description of methods which will be used for disposing of radioactive wastes and estimates of the type and amount of activity involved. See Chapter 4 of the License Renewal Report.
16. (a) Survey Program. Describe the surveys to be made to determine if radiation hazards exist in a facility in which radioactive material is used or stored.
(b) Records Management Program. Records keeping and reviewing records of surveys, material inventories, personnel exposures, etc.

See Chapter 9 and Section 12.5 of the License Renewal Report.

17.

CERTIFICATE

(This item must be completed by the applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 1, certify that this application is prepared in conformity with the New Mexico Radiation Protection Regulations, Part 3, Licensing, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.

J. C. Stauter

John C. Stauter, Director
Nuclear Licensing & Regulation

SIGNATURE OF APPLICANT NAMED IN ITEM 1

DATE February 22, 1985

BY

Roderic Tregembo

SIGNATURE OF CERTIFYING OFFICIAL

Roderic Tregembo, Vice President
Quivira Mining Company

TITLE OF CERTIFYING OFFICIAL