



# STATE OF NEW MEXICO

ENVIRONMENTAL IMPROVEMENT AGENCY  
Radiation Protection Section  
P.O. Box 2348 - Crown Building  
Santa Fe, New Mexico 87503

HEALTH and  
SOCIAL  
SERVICES  
department

June 20, 1977

G.D. Milligan  
Kerr McGee Nuclear Corp.  
Kerr McGee Center  
Oklahoma City, OK 73125

Dear Mr. Milligan:

As requested in your letter of Feb. 3, 1977 and as supplemented by Ranchers Exploration and Development Corporation's radioactive materials license application dated June 17, 1977 and by letter dated June 2, 1977 signed by J.E. Cleveland, former AEC Source Materials License Number SUA-616 is hereby amended as follows:

18. This amendment authorizes the licensee to transfer its uranium mill tailings to the Ranchers Exploration and Development Corporation's Johnny M Mine at a nominal rate of 8,000 tons of tailings per month. This amendment is subject to the following conditions:

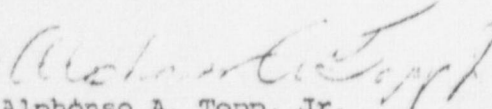
A. Kerr McGee shall make monthly isotopic analysis of the transferred tailings which shall include total uranium, thorium 230, radium 226, lead 210, Se, Mo, V, and As.

B. Kerr McGee shall take monthly air samples in the tailings loading area and analyze these samples for thorium 230, radium 226, and lead 210.

At the end of three months after beginning the transfer operations, Kerr McGee and the New Mexico Environmental Improvement Agency shall review the above sampled data to determine a measurement program for the remainder of the authorized operation.

All other conditions of this license shall remain the same.

Sincerely,

  
Alphonso A. Topp, Jr.  
Environmental Scientist III

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NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION  
RADIOACTIVE MATERIAL LICENSE

License Number SUA-616  
(Former AEC source materials  
license now under extended  
expiration date as provided  
by Section 3-430.B, New Mexico  
Radiation Protection Regulations)

Kerr-McGee Corporation  
Kerr-McGee Center  
Oklahoma City, Oklahoma 73175

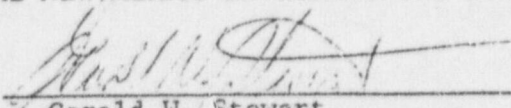
In accordance with letter dated April 4, 1979, signed by W.J. Shelley, Director, Regulation and Control, subject license is amended to add conditions 19, 20 and 21. This license is also amended to add conditions 22 and 23, which are included as standard conditions in the New Mexico Radioactive Materials Licenses.

19. Operation of evaporation ponds 16 and 17 located in Section 4, T13N, R9W, is authorized in accordance with subject letter.
20. Prior to abandonment of ponds 16 and 17 a reclamation plan shall be submitted to the division for review and approval.
21. Operation of ponds 16 and 17 shall be in accordance with an approved discharge plan pursuant to New Mexico Water Quality Control Commission Regulations.
22. The licensee shall comply with Part 4, New Mexico Radiation Protection Regulations.
23. The Division Director or his authorized representative shall be allowed to enter the premises and inspect the radiation related activities of the licensee at all times. Failure of the licensee to admit the director or his authorized representative shall constitute grounds for issuance of an immediate cease and desist order.

FOR THE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Date April 18, 1979

By

  
Gerald W. Stewart  
Environmental Scientist III

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION  
RADIOACTIVE MATERIAL LICENSELicense Number SUA-616  
(Former AEC source materials  
license now under extended ex-  
piration date as provided by  
Section 3-430.B, New Mexico  
Radiation Protection Regulations)Kerr-McGee Corporation  
Kerr-McGee Center  
Oklahoma City, OK 73175

In accordance with your letters dated May 29, June 6, July 6, July 25, and November 15, 1979, January 3, 29, February 20, 1980, signed by W. S. Shelley, Director Regulation and Control, the subject license is amended to add conditions:

24. Operation of evaporation ponds 18, 19, 20, and 21 located in Section 4, T13N, R9W, McKinly County, New Mexico, is authorized in accordance with subject letters noted above and the following conditions.
25. Prior to abandonment of ponds 11-21 inclusive, a reclamation plan shall be submitted to the division for review and approval.
26. Operation of ponds 18, 19, 20, and 21 shall be in accordance with an approved discharge plan pursuant to New Mexico Water Quality Control Commission Regulations.
27. All evaporation ponds containing mill tailings effluent shall be visually inspected at a frequency of not less than once per day and immediately after heavy rain storms for berm integrity, seepage, berm erosion, liner integrity and liquid level.
28. Evaporation ponds 11-21 inclusive shall each have a highly visible liquid level gage to monitor liquid level and the minimum three-foot freeboard.
29. A flow meter shall be installed in the main tailings line to continuously monitor the discharge of liquid to the ponds.

FOR THE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

By \_\_\_\_\_



NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION  
RADIOACTIVE MATERIAL LICENSE

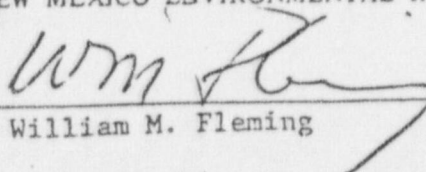
License Number SUA-616

30. Evaporation ponds 11-21 inclusive shall be monitored monthly for three months from the date of this amendment and subsequently on a quarterly basis for the following: gross alpha, gross beta, thorium-230, radium-226, lead-210, uranium, selenium, arsenic, molybdenum, barium, chloride, sulfate, total dissolved solids and pH.
31. A contingency plan for responding to an unexpected release of liquid from the ponds shall be prepared within 180 days of the amendment date and submitted to the Division for review and approval. Methods for cleaning up such an accidental release shall be included with special reference to land and stream bed contamination.

FOR THE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

March 3, 1980

By

  
William M. Fleming

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

RADIOACTIVE MATERIAL LICENSE

License Number SUA 616  
(Former AEC source materials  
license now under extended ex-  
piration date as provided by  
Section 3-430.B, New Mexico  
Radiation Protection Regulations)

Kerr-McGee Corporation  
Kerr-McGee Center  
Oklahoma City, O.K. 73175

The subject license is amended to add the following condition:

32. Approved waste generating processes and mill tailings management practices are subject to revision in accordance with existing, amended and new statutes and regulations.

FOR THE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Date June 2, 1980

By

William M. Fleming  
William M. Fleming

NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION  
RADIOACTIVE MATERIAL LICENSE

License Number SUA-616

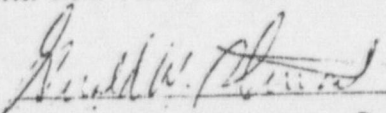
Kerr-McGee Nuclear Corp.  
P.O. Box 213  
Grants, N.M. 87020

The subject license is amended to add the following:

33. The licensee shall comply with the EPA 40 CFR 190 standards effective December 1, 1980: Prospective annual dose limit of 25 millirems to the whole body, 75 millirems to the thyroid, and 25 millirems to any other organ of any member of the public as a result of planned discharges of radioactive material, radon and its daughters excepted. To meet this condition the Division may require the licensee to operate at decreased values from those contained in Part 4, New Mexico Radiation Protection Regulations.

FOR THE NEW MEXICO ENVIRONMENTAL IMPROVEMENT DIVISION

Date June 24, 1980

By   
Gerald W. Stewart - Program Manager  
Uranium Licensing Section