



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Packet File
JUN 1 1976

Docket 40-8027

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MEMORANDUM FOR: Files

FROM: Wayne R. Hansen
Fuel Processing & Fabrication Branch
Division of Fuel Cycle and
Material Safety

SUBJECT: REQUEST BY KERR-MCGEE NUCLEAR CORP. FOR AMENDMENT
OF SOURCE MATERIAL LICENSE SUB-1010 (DOCKET 40-8027)
PERMITTING THE DISPOSAL OF TREATED SOLVENT EXTRACTION
RAFFINATE ON KERR-MCGEE NUCLEAR CORP. OWNED PROPERTY
AT THE SEQUOYAH FACILITY NEAR GORE, OKLAHOMA

In a letter dated April 29, 1976, Kerr-McGee Nuclear Corporation requested an amendment to SUB-1010, Docket 40-8027, requesting the disposal of treated raffinate on pasture within the Kerr-McGee owned Sequoyah site. Open grassland accessible to the use of tank trucks equipped with liquid spreaders amount to approximately 250 acres. Kerr-McGee proposes to apply up to 1,000 lbs. of Nitrogen per acre paced at appropriate intervals throughout the growing season. The request to use the treated raffinate on Kerr-McGee owned property was also part of an amendment request made in a letter dated August 13, 1975.

The following environmental assessment of the amendment request is based on information submitted by Kerr-McGee Nuclear Corporation dated August 13, 1975, December 8, 1975, December 9, 1975, April 29, 1976 and May 3, 1976. The information submitted contains data describing the concentrations of radionuclides in the raffinate, data from application of the raffinate to test plots, and the chemical constituents of the raffinate.

The Sequoyah facility currently is operable for a uranium processing rate of 5,000 tons per year. At this processing rate 3 tons per day of nitrogen is produced as 8% ammonium nitrate in treated raffinate. At the full production rate the plant would produce 28,270 gallons per day. To apply 1,000 lbs. of nitrogen per acre, 4,280 gallons would be applied per acre. To cover the 250 acre area would require raffinate from about 38 operating days.

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76012

40-8027

January 7, 1976

To Those Listed Below

The replies to IE Bulletin 75-07 from Utah International, Inc., License No. SUA-672; Kerr McGee Nuclear Corporation, License Nos. SUB-1010, SUB-986, and 35-12636-06, are attached for your information.


Glen D. Brown, Chief
Fuel Facility and Material
Safety Branch

ATTACHMENTS:

Letter W. J. Hale to IE:IV, received December 31, 1975.

Letter W. J. Shelley to E. M. Howard, dated December 29, 1975.

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