



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

DES

JUN 4 1980

WMUR:DMG
Docket No. 40-8681

MEMORANDUM FOR: Ross A. Scarano, Chief
Uranium Recovery Licensing Branch

THRU: John J. Linehan, Section Leader
Uranium Recovery Licensing Branch

FROM: Daniel M. Gillen
Uranium Recovery Licensing Branch

SUBJECT: AMENDMENT NO. 3 TO LICENSE NO. SUA-1358, ENERGY FUELS
NUCLEAR, WHITE MESA

By letter dated April 16, 1980, Energy Fuels Nuclear (EFN) submitted a license amendment fee and requested amendment of License No. SUA-1358 to include the addition of a second crusher unit to the ore buying station circuit at the White Mesa mill. The amendment request is in fulfillment of License Condition No. 14 that requires approval in the form of a license amendment for any changes in the mill circuit.

In addition, based on a telephone conversation with EFN on May 7, 1980, it will be necessary to amend License Condition No. 38 to clarify aspects of the environmental monitoring program.

The proposed action is the amendment of Source Material License SUA-1358 to (1) include a second crusher unit in the mill circuit and (2) clarify ambiguous statements in Appendix G of the application concerning environmental monitoring of the yellowcake dryer and packaging stacks. The addition of the crusher to the mill circuit will not result in any new land disturbance nor will the licensed maximum yearly throughput of barreled U_3O_8 be increased. As presented in the application, the required effluent controls are placed on all crushers in the ore buying circuit. In regards to the changes to Appendix G of the application, consisting of a table which has been reproduced from the White Mesa FES, ambiguities in the frequencies of sample collection and measurement for the yellowcake dryer and packaging stacks have been clarified.

The staff has concluded that issuance of Amendment No. 3 to Source Material License SUA-1358 as described above will not constitute an undue risk to the health and safety of the public and will not result in any incremental environmental impacts.

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Approval of this amendment with the following conditions is recommended:

11. For use in accordance with statements, representations and conditions contained in Subsection 2.1.1 and Plates 2.1-1 and 2.1-2, Subsections 3.2 and 3.5 through 3.7 and Plates 3.1-1 through 3.1-5, Section 4 and Tables 4.1-1 and 4.1-2, Section 5 (and tables), Subsection 6.3, and Section 7 of the licensee's application dated February 6, 1978, and revisions dated September 26, 1978, and July 6 and 16, 1979, and supplements dated August 3, 1979, and April 14, 1980.

38. In addition to conducting the environmental monitoring program summarized in Appendix G of the application, the licensee shall perform air particulate monitoring as described in Appendix G of the application for "ore crusher stack" for all stacks from areas or process circuits in which ore, yellowcake, or tailings are handled. Also, the licensee shall conduct a monitoring program to collect onsite meteorological data, e.g., wind speed and direction at one-hour intervals and to annually reduce this data to a joint frequency distribution by wind speed, direction, and stability class. The results of these additional effluent and meteorological monitoring requirements shall be included in the licensee's semiannual environmental monitoring report to the NRC.

Notwithstanding any requirements or specifications in Appendix G regarding monitoring of yellowcake stacks, the licensee shall comply with the following:

Sample Collection		Sample Measurement		
Location	Type	Frequency	Frequency	Parameter
Yellowcake dryer and packaging stacks	Isokinetic and representative	Quarterly	Quarterly	U-nat
	Isokinetic and representative	Semiannually	Semiannually ^a	Th-230, Ra-226 Pb-210, flow rate

^aEither a sample of yellowcake product or of the air filter may be analyzed for Th-230, Ra-226, and Pb-210.

Daniel M. Gillen

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APPROVED BY:

John J. Linehan
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