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

OCT 29 1979

WMUR:PJG  
Docket No. 40-3453  
License No. SUA-917, Amendment No. 1

Atlas Minerals  
ATTN: Mr. Gordon Swanby  
2506 Prudential Plaza  
1050 17th Street  
Denver, Colorado 80265

Gentlemen:

Pursuant to Title 10, Code of Federal Regulations, Part 40, Source Material License No. SUA-917 is hereby amended to authorize the raise of the Moab Mill tailings impoundment to elevation 4058 and the operating level of the tailings pond to elevation 4052 (both elevations in feet above mean sea level). Accordingly, Source Material License SUA-917 is hereby amended by revising Condition No. 19 to read as follows:

- 19. (a) The licensee shall construct the lift for the tailings embankment system to a maximum elevation of 4058 feet above mean sea level in accordance with the statements, representations, and commitments contained in the following documents:
  - 1. "Report of Engineering Design Study, Additions to Tailings Pond-Embankment System, Moab, Utah for Atlas Minerals," dated February 15, 1978.
  - 2. "Contract Specifications and Drawings for Tailings Embankment Expansion Project, Twelve-Foot Raise for Atlas Minerals, Moab, Utah," dated August, 1979.
- (b) In addition to the compaction testing specified in the above documents, the licensee shall perform field gradation testing at the frequency of one (1) test for every 5,000 cubic yards of material placed.
- (c) Should fill material in addition to that from the designated borrow area be required during construction, the licensee shall perform strength and gradation analyses prior to use to ensure that the additional fill material is at least as good as the designated borrow material. If the material is not, the licensee shall perform additional static and pseudo-static stability analyses to ensure that the embankment still meets the criteria of Regulatory Guide 3.11.

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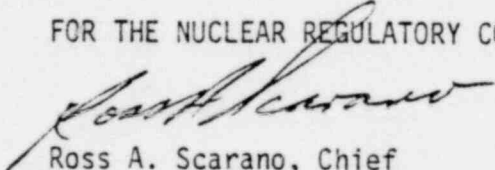
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- (d) Notwithstanding the frequency specified in the above documents, the licensee shall monitor piezometers on a daily basis during construction. Rises in water level shall be reported to the project engineer immediately for evaluation. Following construction, instrumentation monitoring shall be as specified in the documents listed in section (a) above.
- (e) The lateral position of the three piezometers to be installed in the western embankment shall be within five feet of the centerline of the embankment. Piezometer spacing and tip elevation shall be as stated in item (2) of section (a) above.
- (f) The licensee shall maintain at least six feet of freeboard between the embankment crest and the operating level of the ponded liquid. In addition, the licensee shall maintain a minimum beach of 150 feet between the ponded liquid and the dam embankments.
- (g) The results of all quality control testing, as required in sections (a), (b), and (c) above, as well as any additional stability analyses required by section (c), shall be submitted to the Uranium Recovery Licensing Branch, U.S. Nuclear Regulatory Commission, Washington, D.C. 20555 within six (6) months of completion of construction. Piezometer data obtained during construction at the frequency specified in section (d) shall also be submitted at that time.

All other conditions of this license shall remain the same.

The above condition was discussed and agreed to in an October 18, 1979, telephone conversation between yourself and Mr. Garcia of my staff.

FOR THE NUCLEAR REGULATORY COMMISSION



Ross A. Scarano, Chief  
Uranium Recovery Licensing Branch  
Division of Waste Management

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