

JUL 30 1974

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THRU: K. V. Seyfrit, Chief, Technical Assistance Branch, RO

TAILINGS DAM FOR ATLAS MINERALS, MOAB, UTAH, DOCKET NO. 40-3453

A review of the supplemental environmental report submitted by the licensee for this facility in Moab, Utah, has been completed and the following observations are noted. This supplement was submitted in response to questions generated by reviewers of the first draft and enumerated in your letter to the licensee dated January 25, 1974.

Additional triaxial compression tests and direct shear tests were performed on selected undisturbed samples taken from additional borings 10, 12 and 13. The strength parameters determined from the tests were used to evaluate the stability of the embankment. The factors of safety obtained for both the static analysis and the earthquake condition are both in excess of the required minimums for these design conditions.

A ground acceleration of 5 percent was used to evaluate the liquefaction potential. It was calculated by the licensee's consultant that a relative density value of 56 percent or higher would preclude the possibility of liquefaction. There is little doubt that the liquefaction potential of the embankment is negligible; but the low and variable relative density of the hydraulic fill in the starter dikes provides a weak foundation upon which to build. There appears to be adequate evidence that the compacted earthen embankments will be suitable for its intended purpose.

Original signed by
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