

DML:DFH
40-3453

SEP 12 1966

Atlas Minerals
Division of Atlas Corporation
P. O. Box 488
Moab, Utah

Attention: Mr. T. F. Izzo
Mill Superintendent

Gentlemen:

Pursuant to your application dated April 28, 1966, ABC Source Material License No. R-161 is hereby amended to include the following:

"The licensee is hereby authorized to discharge into unrestricted areas liquid effluents containing concentrations of radioactivity in excess of the limits specified in Appendix B, Table II, Part 20, in accordance with the procedures described in the licensee's application dated November 29, 1960, as supplemented October 11, 1962, January 28, 1964, March 29, 1965, and April 28, 1966, and subject to the following conditions:

1. The ratio of the concentration of radium-226 in the effluent to the concentration limit specified in Appendix B, Table II, Column 2, 10 CFR 20, shall not:
 - A. Exceed $\left(\frac{6000}{(\text{effluent flow rate in gallons per minute})} \right)$ averaged over a one year period.
 - B. Exceed 20 at any one time.
2. The concentration of all other radionuclides in the effluent stream shall not exceed the applicable limit specified in 10 CFR 20.

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3. The effluent stream at the point of release to the unrestricted area shall be substantially free of radioactive material contained in suspended solids and shall be sampled continuously or semi-continuously at no greater than hourly intervals and analyzed for radium-226, thorium-230 and natural uranium. Sample size shall be proportional to the effluent flow rate and shall not be composited for purposes of analysis over periods greater than one month.
4. Surveys of the Colorado River above and below the point of effluent release shall be conducted monthly and shall provide sufficient data for estimating the effects of the effluent discharge on concentrations of radioactive material in unrestricted areas.
5. Records shall be maintained of Colorado River flow rates in the vicinity of Moab, Utah, of effluent flow rates and of survey results required by this amendment.
6. The licensee shall file a report with the Commission no later than September 30, 1967, showing the results of surveys required by this authorization including effluent and Colorado River flow rates.
7. This authorization shall expire September 30, 1967.

FOR THE ATOMIC ENERGY COMMISSION

Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials
Branch
Division of Materials Licensing

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