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Form AEC-410  
(1-61)UNITED STATES  
ATOMIC ENERGY COMMISSION

## SOURCE MATERIAL LICENSE

Pursuant to the Atomic Energy Act of 1954, and Title 10, Code of Federal Regulations, Chapter 1, Part 40, "Licensing of Source Material," and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, possess and import the source material designated below; to use such material for the purpose(s) and at the place(s) designated below; and to deliver or transfer such material to persons authorized to receive it in accordance with the regulations in said Part. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954 and is subject to all applicable rules, regulations, and orders of the Atomic Energy Commission, now or hereafter in effect, including Title 10, Code of Federal Regulations, Chapter 1, Part 20, "Standards for Protection Against Radiation," and to any conditions specified below.

Licensee		3. License No.
1. Name	Atlas Corporation	SUA-917
2. Address	Atlas Minerals Division P. O. Box 488 Moab, Utah 84532	4. Expiration Date April 30, 1972
		5. Docket No. 40-3453
6. Source Material  Uranium	7. Maximum quantity of source material which licensee may possess at any one time under this license  Unlimited	

## CONDITIONS

8. Authorized use (Unless otherwise specified, the authorized place of use is the licensee's address stated in Item 2 above.)

For processing uranium ore in accordance with the procedures described in the licensee's applications dated January 29, 1960; April 2, April 5, June 12, June 14 and October 11, 1962; January 28, 1964; March 29, 1965; April 28 and November 25, 1966; and April 14, 1967.

9. Authorized place of use: The licensee's uranium milling facility located at Moab, Utah.

10. The licensee shall immediately notify the Director, Region IV, Division of Compliance, USAEC, Denver, Colorado, by telephone and telegraph of any failure in an earth dam retention system which results in a release of radioactive material into unrestricted areas. This requirement is in addition to the requirements of 10 CFR 20.

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## Supplementary Sheet

11. The licensee is hereby authorized to incinerate wet press papers containing source material in accordance with the procedures described in his applications dated April 2 and June 14, 1962.
12. For the purpose of complying with Section 20.103(b), 10 CFR 20, the limits given in Appendix B, Table I, of this part may be deemed to apply to exposures to the concentrations specified for 160 hours in any period of 28 consecutive days. In any such period where the number of hours of exposure is less than 160 hours, the limits specified in the Table may be increased proportionately. In any period where the number of hours of exposure is greater than 160 hours, the limits specified in the Table shall be decreased proportionately.
13. The licensee is hereby exempt from the requirements of Section 20.203(e)(2) of 10 CFR 20 for areas within the mill provided all entrances to the mill are conspicuously posted in accordance with Section 20.203(e)(2) and with the words, "Any area within this mill may contain radioactive material."
14. 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:
  - A. 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:
    - (1) Exceed ( $\frac{6000}{\text{(effluent flow rate in gallons per minute)}}$ ) averaged over a one year period.
    - (2) Exceed 20 at any one time.
  - B. 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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- C. 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.
- D. 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.
- E. 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 authorization.
- F. The licensee shall file a report with the Commission no later than May 31, 1968, showing the results of surveys required by this authorization including effluent and Colorado River flow rates.
- G. This authorization shall expire May 31, 1968.

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5/15/67

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Date \_\_\_\_\_

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For the U. S. Atomic Energy Commission

by DK  
5/15/67 Donald A. NussbaumerDivision of Materials Licensing  
Washington, D. C. 20545