



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
URANIUM RECOVERY FIELD OFFICE
BOX 25325
DENVER, COLORADO 80225

SEP 26 1989

URFO:GRK
Docket No. 40-3453
License No. SUA-917
04003453920E

MEMORANDUM FOR: Docket File No. 40-3453
FROM: Gary R. Konwinski
Project Manager
SUBJECT: ATLAS MINERALS ENVIRONMENTAL MONITORING PROGRAM RESULTS
FOR THE FIRST HALF OF 1989

By letter dated August 29, 1989, Atlas Minerals submitted an environmental monitoring report in compliance with 10 CFR 40.65 and License Condition No. 48 of Source Material License SUA-917. This memorandum presents the URFO staff review of the data.

Stack Sampling

The mill did not operate during this reporting period; therefore, no stack sampling was conducted.

Airborne Particulate Sampling

Continuous sampling for airborne particulates was performed at five locations in accordance with license requirements. Review of the airborne particulate sampling data indicates that all of the reported values were less than 1 percent of the respective unrestricted area Maximum Permissible Concentration (MPC) as specified in 10 CFR 20, Appendix B, Table II, Column 1.

Radon Sampling

Atlas performed continuous radon-222 monitoring as required. A review of the data indicates that the radon-222 during the second quarter of 1989 at station S2 was 4.5×10^{-9} $\mu\text{Ci/ml}$. This value is in excess of the MPC for radon-222 as specified in 10 CFR 20, Appendix B, Table II, Column 1. The issue was discussed during the previous radiation safety inspection. The licensee was notified in the form of a Notice of Violation that the radon-222 values must be reduced to applicable standards. A corrective action is being implemented.

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Direct Radiation

Continuous gross gamma measurements were performed by Atlas at the five air sampling stations and at the guardhouse and analyzed quarterly in accordance with License Condition No. 35 of Source Material License SUA-917. The average gamma exposure for the second half of 1988 at the stations monitored, exclusive of the background location (S-6), is 49.8 mR/qtr. Background for the general vicinity was 9.5 mR/qtr for the sampling period. Review of the data indicates that the values are fairly consistent with previous data.

Ground-Water Sampling

Grab samples of six monitor wells were performed by Atlas. A review of the data indicates that it does not differ significantly from the previously reviewed ground-water sampling data. A detailed review of the ground-water data is performed separately by the staff to determine compliance with Criterion 5 of Appendix A to 10 CFR 40.

Surface Water

Atlas performed surface water sampling at two locations, upstream and downstream of the mill. A review of the data indicates that it does not differ significantly from the previously reviewed surface water sampling data.

Vegetation Sampling

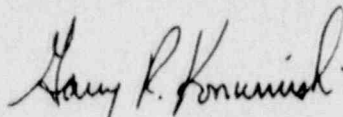
No vegetation sampling was performed during the monitoring period.

Soil Sampling

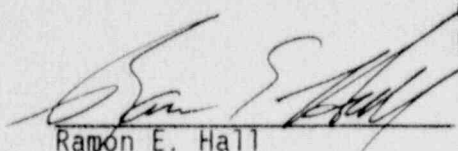
No soil sampling was performed during the monitoring period.

Conclusion

The staff concludes that Atlas has performed environmental monitoring in accordance with license requirements and submitted all data. Based upon the staff review of the data submitted by Atlas Minerals, the staff concludes that the issue of elevated Ra-222 be compared with future measurements to determine the effectiveness of the licensee's corrective action plan.



Gary R. Konwinski
Project Manager

Approved by: 

Ramon E. Hall
Director

Case Closed: 04003453920E

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