



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

MAR 02 1994

URFO:DCW
Docket No. 40-3453
X61187

MEMORANDUM FOR: Docket File No. 40-3453
FROM: Dana C. Ward, Project Manager
SUBJECT: 1992 ALARA AUDIT REPORT REVIEW FOR THE ATLAS MOAB MILL

By letter dated September 15, 1993, Atlas Corporation (Atlas) submitted a report documenting the annual ALARA audit at the Moab Mill. The ALARA audit and submittal of the report are required by License Condition No. 29 of Source Material License SUA-917. The staff review of the ALARA audit report indicates the following major points:

1. The ALARA audit committee consisted of two people, the Vice President of Environmental and Governmental Affairs, and the Radiation Control Coordinator. This committee met once during the year to review previous findings and to make new recommendations for maintaining radiation exposures ALARA for the upcoming year.
2. Airborne exposures to U-nat increased slightly during the year. This increase was attributed to an increase in decommissioning activities.
3. Radon daughter exposures showed no trends in exposure during the year.
4. Bioassays showed no trends during the year.
5. There was a slight increase in direct radiation exposures during the year. This increase is probably due to mill decommissioning activities.
6. Surface contamination surveys showed a slight increase in contamination levels over the year.
7. General area air samples for U-nat were taken at ten locations within the mill. All but one location showed decreasing trends during the year, while the remaining location showed no trends.

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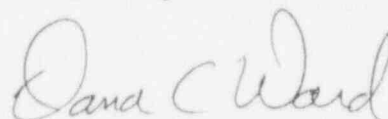
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8. Radon daughter concentrations were noted to be increasing within the mill complex. The front office, lab, and pump house showed moderate increases during the year, while the compressor room and yard showed weak increases.
9. Breathing zone samples indicate that workers were not exposed above the respective MPCs for U-nat, Ra-226, and Th-230.
10. Environmental sampling data was reviewed during the ALARA audit with the following trends noted:
 - A. The licensee reported that there was a minor increasing trend in sampled parameters for the ground-water monitoring wells.
 - B. Atlas reported a decreasing trend for select parameters for surface water below the mill, but an increasing trend for select parameters above the mill.
 - C. The licensee reported a decreasing trend for both Ra-226 and Pb-210 in soil samples collected at all monitoring locations.
 - D. Atlas reported an increasing trend for radon at three out of five monitoring stations with two stations showing no trends. U-nat, Th-230, and Ra-226 showed decreasing trends at all monitoring stations.
 - E. Vegetation sampling showed no trends for the ALARA period.
 - F. Atlas reported decreasing trends for environmental TLD monitoring at three of the five monitoring stations with no trends reported for the remaining two stations.

The staff concludes that the licensee has performed an acceptable ALARA audit. No areas of concern were noted during the review. The licensee is actively decommissioning the facility which would account for the slight increases reported. Bioassays indicate that exposure to airborne radiation continue to be low. No further action is therefore necessary at this time.



Dana C. Ward
Project Manager

Case Closed: X61187

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