



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

MAR 02 1994

URFO:DCW
Docket No. 40-8084
X61163

MEMORANDUM FOR: Docket File No. 40-8084
FROM: Dana C. Ward, Project Manager
SUBJECT: ENVIRONMENTAL MONITORING REPORT REVIEW FOR THE RIO ALGOM
MINING CORP., LISBON MILL, FIRST HALF OF 1993

By letter dated August 30, 1993, Rio Algom Mining Corp. (RAMC) submitted a semiannual environmental monitoring report for the Lisbon Mill. The report covers the period January through June 1993. The report's submittal was in accordance with License Condition No. 22 of Source Material License SUA-1119.

Environmental monitoring requirements for the Lisbon Mill are specified in License Condition No. 51 of SUA-1119. The Lisbon Mill was in a standby status until November 4, 1992, when their license was amended for possession only. The review of the submitted data is presented below.

BACKGROUND

RAMC operates four environmental monitoring stations for radon, airborne particulates, and direct radiation. Two stations, EM-1 and EM-2, are located at the restricted area boundary. A background station, EM-6, is located 10.5 miles northwest of the mill. The fourth station, EM-4, is a nearest-residence monitor located about 1 mile north of the property boundary. The predominate wind direction for the facility is from the northwest.

Airborne Particulates

All gross results were less than 5 percent of the maximum permissible concentration (MPC) for unrestricted areas. The highest values reported for the sampling period for each nuclide sampled was 1.6 E-15 uCi/ml for Th-230, 1.6 E-14 uCi/ml for Pb-210, 2.1 E-15 uCi/ml for Ra-226, and 3.2 E-15 uCi/ml for U-nat. The high value for Th-230 at 1.6 E-15 uCi/ml was from the EM-2 monitoring location and represents 2 percent of the MPC.

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Radon

The highest value reported was 12.7 percent of the MPC for monitoring station EM-2. The background value obtained during this time period was 8.3 percent of the MPC.

Surface Water

The licensee samples at one location only for surface water. The collected water is analyzed for U-nat and Ra-226. All results were less than 1 percent of the respective MPCs.

Direct Radiation

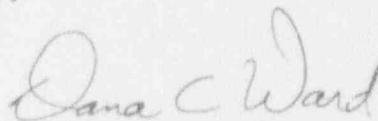
Four locations were monitored for direct radiation during the report period. Background averaged 14.0 mRem/qtr, with the highest gross reading of 20.0 mRem obtained for the second quarter of 1993.

Ground Water

Ground-water results are reviewed separately by the staff to verify compliance with Criterion 5 of Appendix A of 10 CFR 40.

CONCLUSION

The staff concludes that RAMC has implemented an environmental monitoring program and submitted all data in accordance with license requirements. No areas of concern were noted during the staff review of the data provided. No further action is therefore necessary.



Dana C. Ward
Project Manager

Case Closed: X61163

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bcc:
Docket No. 40-8084
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