



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

JAN 18 1990

URFO:PJG  
Docket No. 40-8907  
04008907330E

MEMORANDUM FOR: Docket No. 40-8907  
FROM: Pete J. Garcia, Project Manager  
SUBJECT: REVIEW OF ENVIRONMENTAL MONITORING REPORT FOR THE CHURCH  
ROCK MILL

By letter dated August 18, 1989, United Nuclear Corporation (UNC) submitted a report containing environmental monitoring data for the Church Rock Mill for the first half of 1989. The report was submitted in accordance with 10 CFR 40.65 and Condition No. 12 of Source Material License SUA-1475. The staff review of the data is discussed below.

Air Particulate

The licensee performed continuous sampling for airborne particulates at four locations required by the license. Sites C and F are immediately downwind of the tailings ponds, Site E is immediately upwind of the ponds, and Site OCR is located over 0.5 miles upwind of the site and serves as the background station. The air samples are analyzed quarterly for U-nat, Ra-226, Th-230, and Pb-210.

A review of the data indicates that all results were below 10 percent of the unrestricted area MPC.

Radon and External Radiation

UNC performs continuous monitoring of radon and external radiation levels at the four air monitoring sites. The radon sampling is performed using track etch passive monitors which are exchanged and analyzed quarterly. External radiation levels are determined using TLDs which are exchanged and analyzed semi-annually.

A review of the radon data indicates that the highest net value (gross value minus background) was 73 percent of MPC for the second quarter of 1989 at Site F. The licensee attributes the high value to interim stabilization work performed in the North Pond, approximately 200 yards from Site F. A review of the external radiation data indicates that the highest net value was 63 mR for the six month period.

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Ground Water


The licensee's August 18, 1989 submittal includes the results of quarterly sampling of three wells and analyses of the samples for U-nat, Ra-226, Th-230, and Pb-210. The staff review of the data indicates all results were less than 10 percent of MPC. The results of analyses for chemical constituents will be submitted separately in accordance with UNC's license and reviewed by the staff to assure compliance with Criterion 5 of Appendix A to 10 CFR 40.

Soil Sampling

The licensee submitted the results of soil sampling and analysis for U-nat, Ra-226, and Pb-210. The results were comparable with past data.

Conclusion

The staff review of the August 18, 1989 submittal indicates that the licensee has performed sampling and analysis in accordance with license requirements. No further action is therefore necessary at this time.



Pete J. Garcia  
Project Manager

Approved by:

  
for Ramon E. Hall  
Director

Case Closed: 04008907330E

JAN 18 1990

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