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UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV
URANIUM RECOVERY FIELD OFFICE
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DENVER, COLORADO 80225

URFO:KLK
Docket No. 40-8064
04008064140E

NOV 22 1982

MEMORANDUM FOR: Docket File No. 40-8064
FROM: Kenneth L. Kalman
Operating Facility Section I
Uranium Recovery Licensing Branch
Division of Waste Management
SUBJECT: REVIEW OF EXXON MINERALS COMPANY'S SECOND QUARTERLY
REPORT, 1982, SOURCE MATERIAL LICENSE SUA-1064

Program Status

Restoration continued at the Expanded R&D Pilot well field through the second quarter of 1982. Fluids were produced from the original production wells and passed through ion exchange columns for incidental uranium recovery. The fluids were then treated by reverse osmosis to reduce elemental concentrations prior to their reinjection into the ore zone through the original injection wells. Bi-weekly sampling of the observation and monitor wells continued throughout the reporting period.

License Condition No. 25 of the renewed Source Material License requires monthly monitoring of the observation wells in the Original Pilot wellfield and License Condition No. 16 requires the inclusion of environmental and radiological data in the quarterly reports. Since Exxon did not receive this license until early in the third quarter, no data was submitted on the original pilot in this quarterly report.

Water Quality

The uranium content of the production stream has been steadily decreasing over the past nine months. During the reporting period, concentrations dropped from 11 mg/l in April to 9 mg/l in June. No excursions occurred during this quarter.

Water quality data reported for all observation and monitor wells was generally below the upper control limits (UCL's). Sulfate

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concentrations exceeded their UCL's at wells 0-7, 0-8 and 0-9, during the beginning of the reporting period, though generally by less than 20 percent. However, by the last month of the quarter all three wells were below or closer to their UCL's.

As a follow-up to the accident that occurred during the first quarter of 1982, in which a transfer line break contaminated well 0-4, data from the well was compared to data taken during the fourth quarter of 1981, prior to the break. Water quality at well 0-4 was generally better during the second quarter than it was prior to the break, leading NRC staff to conclude that Exxon has successfully decontaminated the well.

Recommended Action

No further actions are required as a result of this review. No hazardous conditions were noted during this quarter. The transfer line that broke during the previous quarter is no longer in use and the ensuing contamination of well 0-4 was removed. Data taken from well 0-4 during this quarter indicate that the well is under control. The data required by the renewed license is expected to appear in the next quarterly report.

Kenneth L. Kalman
Kenneth L. Kalman
Uranium Recovery Field Office

Approved By:

J. J. Linehan
John J. Linehan, Section Chief
Uranium Recovery Field Office

Case Closed: 04008064140E