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Docket 40-8064

PDR



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

JAN 17 1983

URFO:KLK
Docket No. 40-8064
04008064181E

MEMORANDUM FOR: Docket File No. 40-8064
FROM: Kenneth L. Kalman
Licensing Branch I
Uranium Recovery Field Office
Region IV
SUBJECT: REVIEW OF EXXON MINERALS COMPANY'S THIRD QUARTER REPORT,
1982, SOURCE MATERIAL LICENSE SUA-1064

Program Status

Restoration continued at the Expanded R&D Pilot wellfield through the third 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, and the data is contained in the quarterly report.

Exxon considers restoration and post restoration of the Original Pilot wellfield to be complete. It's documentation was submitted to the NRC on September 29, 1982 and will be reviewed under separate case number. Production from this wellfield was terminated on September 10, 1982. Until that time approximately 1 gpm of fluid was pumped from observation well #7 and discharged to the waste stream.

License Condition No. 25 of the renewed Source Material License requires monthly monitoring of the observation wells in the Original R&D Pilot wellfield. Exxon submitted the required monthly monitoring data for the Original Pilot.

License Condition No. 16 requires the inclusion of environmental and radiological data in the quarterly reports. Exxon's report did not include any environmental and radiological data. In a December 14, 1982 telephone

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conversation, Exxon's Dave Clark was informed of the oversight and agreed to submit this third quarter data as a supplement to the fourth quarter report along with all required data for the fourth quarter. Mr. Clark explained that Exxon is currently sampling for radon daughters and airborne uranium only at the recovery building, the header house, and the RO building.

Water Quality

The uranium content of the production stream from the expanded pilot has been steadily decreasing over the past year. During the reporting period, concentrations dropped from 9 mg/l in July to 5 mg/l in September.

Water quality data reported for all observation and monitor wells was generally below the upper control limits (UCL's). Sulfate concentrations exceeded their UCL's at wells 0-6, 0-7, 0-8 and 0-9 during the beginning of the reporting period, though generally by less than 10 percent. No excursions occurred during this quarter.

Recommended Action

No further actions are required as a result of this review. No hazardous conditions were noted during this quarter. The data required by the renewed license is expected to appear in the next quarterly report.

Kenneth L. Kalman

Kenneth L. Kalman
Licensing Branch I
Uranium Recovery Field Office
Region IV

Approved By:

John J. Linehan

John J. Linehan, Branch Chief
Licensing Branch I
Uranium Recovery Field Office
Region IV

Case Closed: 04008064181E

CC: D. Clark, Exxon