



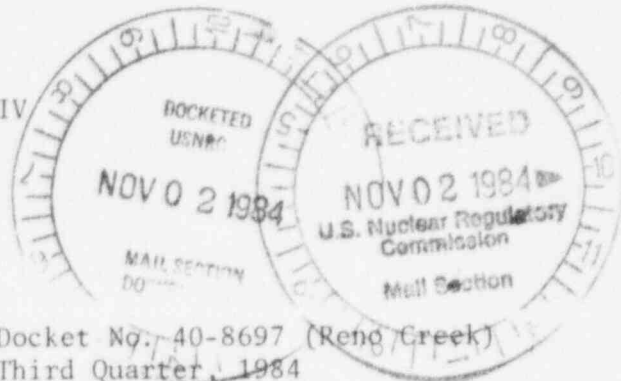
**ROCKY MOUNTAIN
ENERGY**

40-8697

A Subsidiary of
Union Pacific Corporation

October 31, 1984

Mr. R. Dale Smith
U.S. Nuclear Regulatory Commission
Uranium Recovery Field Office, Region IV
Box 25325
Denver, CO 80225



Dear Mr. Smith:

RE: License SUA-1338, Docket No. 40-8697 (Reno Creek)
Quarterly Report: Third Quarter, 1984

License condition 29 requires a quarterly report summarizing environmental surveillance at the Reno Creek R & D project. This report covers the period July 1, 1984 through September 30, 1984.

OPERATIONS

Leaching and restoration activities ceased in 1981. Activities the past three years have been primarily limited to site maintenance and environmental monitoring.

ENVIRONMENTAL MONITORING

Groundwater

Sulfuric acid leaching tests began on Pattern 1 in February, 1979 and ran until November, 1979 at which time restoration efforts commenced. Restoration activities ceased June 1, 1981. Monthly samples have been collected from production and monitor wells since shut down to verify groundwater stability. Third quarter data for Pattern 1 wells are displayed in Tables 1 and 2.

Both NRC and The Wyoming DEQ approved Pattern 2 restoration adequacy in the Spring of 1983. All groundwater surveillance was halted at that time.

Reservoir

Approximately three million gallons of solution remain in the twelve million gallon reservoir. Table 6 lists third quarter solution analyses. As expected, the total dissolved solids increases as the amount of solution decreases.

Radon Gas

Samples are collected monthly upwind, downwind and inside the process building. All results shown in Table 3 are below 10 CFR 20 limits for the quarter.

Air Particulates

Radionuclide particulate data for the second quarter, 1984 are displayed in Table 4. High-volume filters are collected using EPA's six day schedule. The filters are combined into a quarterly composite. All reported values are significantly less than 10 CFR 20 limits. Third quarter values will be reported on the next quarterly report.

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Area Dosimetry

TLD badges are located in several working areas. Table 5 lists results for the third quarter.

PROPOSED ACTIVITIES

Further R & D work to develop in-situ technology is not planned at Reno Creek. Upon receiving concurrence of Pattern 1 restoration adequacy, Pattern 1 wells will be abandoned in accordance with State Of Wyoming regulations.

Environmental surveillance, including radon gas, air particulates and area dosimetry will continue through facility decommissioning.

If you have questions, call me at the Casper office or Mike Neumann in our Broomfield office.

Sincerely,

Michael R. Neumann

For Patrick Spieles
Facility Superintendent

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