

**ROCKY MOUNTAIN
ENERGY COMPANY**

August 17, 1979

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GENERAL SECTION

Executive Director for Operations
U. S. Nuclear Regulatory Commission
Washington D. C. 20555

REF: License No. SUA-1228
Docket No. 40-8180

Dear Sir:

In reference to my phone conversation with Ray Cooperstein, August 14, 1979, I am sending a supplement to the Semi-Annual Effluent Monitoring Report dated July 31, 1979. The supplement contains explanations, additions and corrections to the initial report.

Item No. 1

Nine Mile Lake values reported in Table I are an order of magnitude greater than corresponding Reno Creek values. These values are the maximum values for the six month period. At this point my explanation as to the difference can be attributed to a change in outside laboratories who performed the analysis. During May of 1979, we switched to Accu-Lab in Denver due to poor turn around time by Eberline of Santa Fe. The results from Accu-Lab were an order of magnitude greater than results we have seen from Eberline for the prior two years. We presently have samples at a third outside lab in hopes of confirming either Accu-Lab or Eberline data. All data from Nine Mile Lake prior to May approximated the values reported for Reno Creek. The Nine Mile Lake facility has neither produced uranium nor processed yellowcake during 1979, therefore, it is highly unlikely that an increase in the radionuclides for air particulates would occur.

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Item No. 2

Table II incorrectly reports the radon gas concentrations. Both values listed should be times 10^{-9} .

Item No. 3

Personnel TLD data are reported in rems per calendar quarter. The maximum value for a calendar quarter during this report period was 0.08 rems. This value is considerably less than the calendar quarter limit of 1.25 rems.

The external area TLD monitors showed a maximum value of 0.048 rems net for the quarter. This value corresponds to 2.88 mrems per week. All dosimetry analysis was performed and reported by Eberline of Santa Fe.

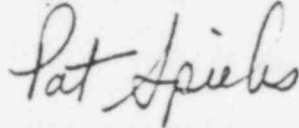
Item No. 4

This item is merely to provide a summary of the restoration effort at Nine Mile Lake. As of June 30, 1979, the No. 2 well pattern water quality was approaching the original use category. A total of 15,123,713 gallons of lixiviant, or approximately 38 pour volumes, was injected into Pattern 2. The restoration effort through June 30 resulted in the injection of 4,322,332 gallons or approximately 11 pour volumes. The following table summarizes the water quality in Pattern 2 comparing the baseline, pregnant solution and current status.

	<u>Baseline</u>	<u>Pregnant Solution 5/16/78</u>	<u>Current</u>
pH	6.7	1.81	5.7
Conductivity μ mos/cm	3340	12200	3300
Sulfate mg/l	1764	6010	1370
Calcium mg/l	111	250	54.0
Iron mg/l	0.4	110	7.5
Vanadium mg/l	Trace	657	18.0
Uranium (U_3O_8) mg/l	0.2	119	2.3
Sodium mg/l	674	980	645
Magnesium mg/l	76	84	27
Aluminum mg/l	0.13	120	5.5
Bicarbonate mg/l	257	144	138
TDS	2852	9210	2880

If additional information is requested, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Pat Spieles".

Pat Spieles
Environmental Manager

cc: Russ Hynes
Al Luck
Kent Loest
NRC File

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