



**ROCKY MOUNTAIN
ENERGY**

A subsidiary of
Union Pacific Corporation

July 30, 1981

U. S. NUCLEAR REGULATORY COMMISSION
Office of Inspection & Enforcement, Region IV
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

RE: Effluent Monitoring Report
License No. SUA-1228
Docket No. 40-8380

Gentlemen:

In accordance with 20 CFR 40.65, Rocky Mountain Energy Company is submitting the semi-annual Effluent Monitoring Report for the Nine Mile Lake test facility. The report covers the period of January, 1981 through June, 1981.

Environmental samplings have provided sufficient data to support the general conclusion that the Nine Mile Lake operation has not caused a negative impact outside of the immediate environment. Specifically, all data collected at or correlated to the unrestricted site boundary reflects background levels of all radionuclides of concern. The attached tables review radionuclide particulate and radon gas data for the report period.

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

Sincerely,

Pat Spieles

Patrick Spieles
Environmental and Analytical Supervisor

PS/ca
Attachments

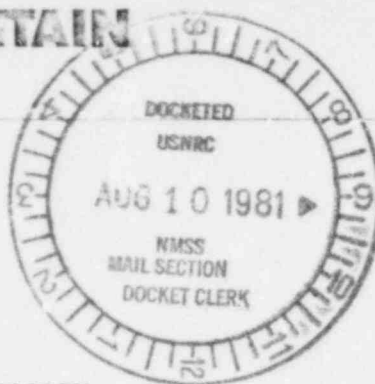
cc: USNRC, c/o Document Management Branch
USNRC, Director of Inspection & Enforcement
Mr. John Linehan
M. R. Neumann
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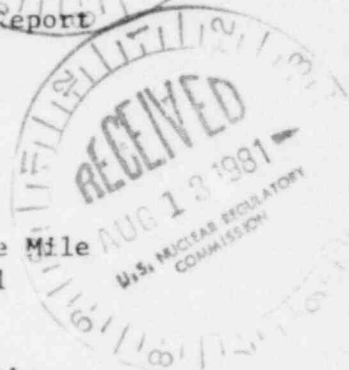
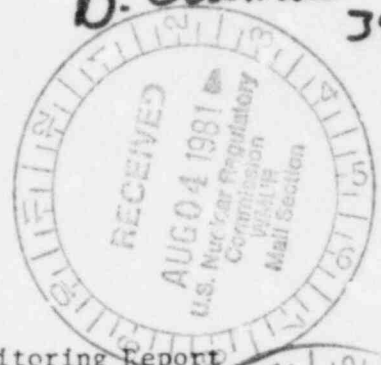


Docket 40-8380

APR

*Return to
D. Cramer*

396-SS



FEE EXEMPT 10259

Add'l Info

TABLE 2

RADON GAS*
NINE MILE LAKE
JAN - JUNE, 1981

<u>Site</u>	<u>Radon-222 x 10⁻⁹ uCi/ml</u>
Upwind Control (highest)	1.00
Upwind Control (average)	0.60
Downwind Boundary (highest)	0.72
Downwind Boundary (average)	0.42
Downwind Site 6 (highest)	0.64
Downwind Site 6 (average)	0.41
Downwind Site 7 (highest)	0.50
Downwind Site 7 (average)	0.25
10 CFR 20 limit	3.00

*Samples are taken once per month for a 48-hour period. Values reported are highest observed and average for the reporting period.