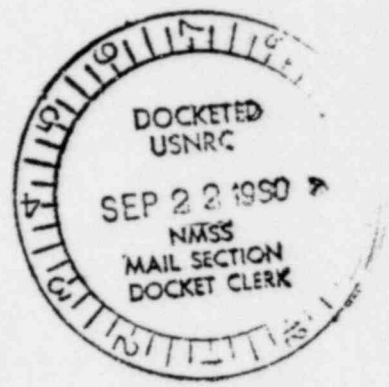


REC-11

SEP 9 PM 2 55

September 5, 1980

U.S. Nuclear Regulatory Commission
Region IV office of Inspection & Enforcement
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76012.



SUBJECT: Semi-annual Effluent Monitoring Report, Material License No. SUA-1315, for the period January 1 thru July 31, 1980.

Gentlemen:

As required by 10CFR 40.65 and Condition No. 27 of the subject license find enclosed information regarding stack emissions for this period. Adjustments in chemical processes over the previous year have resulted in suspected alterations in the physical character of the calciner product feed. It is believed that these physical changes have resulted in increased concentrations of radioactive materials in effluents as measured isokinetically within the stacks.

Presently, engineering evaluations related to scrubber performance is underway to increase the efficiency of particulate removal. Wyoming Mineral Corporation is expeditiously working with the appropriate equipment vendors to reduce the relevant effluent values. Table 1, attached, presents measured values for both the calciner and general fumes effluent stacks during the period January 1-July 31, 1980.

If you have any questions on these or related matters, do not hesitate to contact at the above address and/or telephone number.

Sincerely,
R. N. Platzke
R. N. Platzke
Plant Manager

R. E. Berg
R. E. Berg
Radiation Protection

RNP:cc

Attachment
cc: U.S. NRC
Director of Inspection and Enforcement
Washington D.C. 20555

FEE EXEMPT

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TABLE I

	<u>Calciner Stack</u>	<u>General Fumes</u>
Maximum Uranium Concentration (uci/cc)	2.26 E-11	6.24 E-12
Average Uranium Concentration (uci/cc)	6.88 E-12	3.05 E-12
Average Uranium Release Rate (uci/sec)	4.06 E-6	8.64 E-7
Average Flow Rate (cc/sec)	5.9 E 5	2.84 E 5
Total Operational Time (hours)	2.06 E 3	4.4 E 3
Total Uranium Released (uci)	30.0	13.7
Total Ra 226 Released (uci)*	7.9 E-3	3.6 E-3
Total Thorium 230 Released (uci)*	4.8 E-2	2.2 E-2

*Isotopic analysis of product indicates Radium 226 activity =
(2.64 X 10⁻⁴) (Total Activity)

Thorium 230 activity = (1.61 X 10⁻³) (Total Activity)