

BINGHAM CANYON

Semi-annual Effluent Monitoring Report January 1 - June 30, 1983

	<u>General Fumes Collection Scrubber Stack</u>	<u>Calciner Scrubber Stack</u>
1. Ave. Uranium Concentration (24 hour period)	1.78×10^{-12} uci/cc	3.04×10^{-12} uci/cc
2. Maximum Uranium Concentration (24 hour period)	4.69×10^{-12} uci/cc	6.59×10^{-12} uci/cc
3. Measured Stack Flow Rate	1362 cfm	945 cfm
4. Ave. Uranium Release Rate	11.44×10^{-7} uci/sec.	13.55×10^{-7} uci/sec
5. Total Uranium Released	17.89 uci	7.92 uci
6. Ave. ²³⁰ Th Concentration	6.76×10^{-17} uci/cc	11.55×10^{-17} uci/cc
7. Ave. ²³⁰ Th Release Rate	4.35×10^{-11} uci/sec	5.15×10^{-11} uci/sec
8. Ave. ²²⁶ Ra Concentration	6.94×10^{-19} uci/cc	11.86×10^{-19} uci/cc
9. Ave. ²²⁶ Ra Release Rate	4.46×10^{-13} uci/sec	5.28×10^{-13} uci/sec
10. Total Operational Time	181 days	67.67 days
11. Lower Limit of Detection LLD	4.90×10^{-14} uci/cc	

NOTE: Radiochemical Isotopic Analysis of Product Indicates;

²³⁰Th Activity fraction(3.8×10^{-5}) (Total Activity)
²²⁶Ra Activity fraction(3.9×10^{-7}) (Total Activity)

PDR

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Wyoming Mineral Corporation

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P.O. Box 311
Bingham Canyon, UT 84006

A Subsidiary of
Westinghouse Electric
Corporation

August 19, 1983



U. S. Nuclear Regulatory Commission
Region IV Office of Inspection and Enforcement
611 Ryan Plaza Drive
Suite 100
Arlington, Texas 76012

Subject: Semi-annual Effluent Monitoring Report
Material License No. SUA-1315
for the period of January 1 - June 30, 1983.

Gentlemen:

As required by the Code of Federal Regulations, Title 10, Part 40.65 and Condition No. 27 of NRC Materials License SUA 1315, find attached a summary of the estimated releases of radioactive materials in effluents from the Wyoming Mineral Corporation Bingham Canyon Extraction Plant, Copperton, Utah for the period January 1 - June 30, 1983.

If there are any questions regarding this information, please contact me at the above address.

Sincerely,
R. E. Berg

R. E. Berg
Radiation Protection Officer
Wyoming Mineral Corporation

REB:cc
Attachment

cc: A. J. Nardi - (W) Pittsburgh
C. Rutledge - (W) Pittsburgh

U. S. Nuclear Regulatory Commission
Director of Inspection and Enforcement
Denver, Colorado 80225

G. N. Gnugnoli
New Facility Section
Uranium Recovery Licensing Branch
Denver, Colorado 80225



FEE EXEMPT

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