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Certified Mail - 7099 3220 0002 1632 3531 Return Receipt Requested

February 16, 2001

Mr. Steve Ingle WDEQ/LQD Herschler Building 122 West 25<sup>th</sup> Street Cheyenne, WY 82002

RE: Corrective Action Report 6, West Evaporation Pond Leak Permit to Mine 633, License SUA-1548, Docket 40-8964

Dear Mr. Ingle:

On September 14, 2000, during a routine inspection, it was discovered that the west evaporation pond sump contained greater than 6 inches of water. The water level in the pond, four feet six inches at the time of the discovery, was immediately lowered in order to stop the leak. The sump water was analyzed for chloride, specific conductance, bicarbonate, U<sub>nat</sub>, and sulfate with the results shown below:

Chemical	Concentration
Chloride	8,510 mg/l
Specific Conductance @ 25 °C	32.95 m Siemens
Bicarbonate	283.1 mg/l
U <sub>nat</sub> as U <sub>3</sub> O <sub>8</sub>	22.6 mg/l
Sulfate	7,429 mg/l

Upon receipt of the confirming analysis, both Steve Ingle of WDEQ and John Lusher of NRC were notified via telephone on September 22, 2000.

After patching the suspect locations, the water level was slowly raised beginning on October 30<sup>th</sup>. On November 6<sup>th</sup>, with the pond level at four feet six inches, the sump began collecting water. The water level of the pond was dropped to three feet eight inches in order to stop the leakage.

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The pond did not leak again until January 6, 2001. A sample was taken on the same day with the following results:

Chemical	Concentration
Chloride	9,428 mg/l
Specific Conductance @ 25 °C	41.39 m Siemens
Bicarbonate	448 mg/l
U <sub>nat</sub> as U <sub>3</sub> O <sub>8</sub>	25.0 mg/l
Sulfate	11,212 mg/l

A weekly sample taken on January 19, 2001 contained 8,300 mg/l chloride and had a specific conductance of 22.22 m Siemens. The pond quite leaking on January 22<sup>nd</sup> without any change in the pond's water level and has not leaked since. This suggests that the leak is above the 2' 11" mark and that the recent flow into the sump was the result of condensation. Additional repairs will be made to the liner as soon as the weather improves and the ice on the pond melts.

Additional monthly reports will be submitted until correction of the situation is confirmed. If you have any questions or comments regarding the submittal, please fell free to contact me at (307) 358-3744, ext. 62.

Sincerely,

John W. Cash

Manager EHS and Regulatory Affairs

xc:

- J. Lusher-U.S. NRC (Div. of Low Level Waste Mgt. & Dec.) Rockville, MD Certified Mail -7099 3220 0002 1632 3548, return receipt requested
- B. Ferdinand (RAMC-Smith Ranch Facility)
- M. Freeman (RAMC-OKC Office)
- P. Goranson (RAMC-OKC Office)

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