

file ACT/015/018
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STATE OF UTAH
DEPARTMENT OF HEALTH

NORMAN H. BANGERTER, GOVERNOR
SUZANNE DANDROY, M.D., M.P.H., EXECUTIVE DIRECTOR

March 13, 1986

Mr. C.E. Shingleton
Director of Permitting
Utah Power & Light Company
1407 West North Temple
P.O. Box 899
Salt Lake City, Utah 84110

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MINING AND
EXPLORATION

DIVISION OF
OIL, GAS & MINING

Dear Mr. Shingleton:

Re: Deer Creek Mine Permit ACT/015/018, 10/85; UT-0016,
10/85 OSM Condition #1 (Sediment Pond Volume)

We have reviewed plans and documentation submitted through March 6, 1986, relative to the Deer Creek Mine sediment pond.

The "as constructed" facility provides approximately six feet (6.2') of separation between pond bottom and decant spillway invert. Approximately three feet (2.7') of separation is provided between the decant spillway invert and sediment cleanout level (maximum sediment storage elevation). The decant spillway also serves as the principal spillway and is regulated by a slide gate.

We have determined the "as constructed" facility basically conforms to the original design as approved by the Department of Health in 1979. Therefore, we feel a variance is not necessary.

However, our review of discharge records indicates allowable concentrations of total dissolved solids (TDS) have been exceeded. Based upon our review, we feel operational procedures and the principal spillway design may be a factor in the TDS concentrations. It is our understanding that the principal spillway gate is normally closed. Prolonged storage of water will increase TDS concentrations. We recommend Utah Power & Light consider modification of operational procedures and/or modification of the principal spillway such that the principal spillway can operate with the gate normally open.

If you have any questions or we can be of further assistance, please call.

Sincerely,

David R. Ariotti
District Engineer
Division of Environmental Health

DRA/jir

cc: Don Ostler, Bureau of Water Pollution Control
Gerald Story, Southeastern Utah District Health Department
KENNETH L. ALKEMA, DIRECTOR • DIVISION OF ENVIRONMENTAL HEALTH