

**Utah
power**
& LIGHT COMPANY
MINING DIVISION
P.O. Box 310
Huntington, Utah 84528

March 16, 1989

RECEIVED
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DIVISION OF
OIL, GAS & MINING

Mr. Rick Smith
Permit Supervisor
Division of Oil, Gas and Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Mr. Smith:

Re: Pap Amendment, Waste Rock Disposal Site, Road
Alignment Amendment, Utah Power & Light Co., Deer
Creek Mine, ACT/015/018-88E

The attached materials are submitted in response to the letter from John Whitehead dated January 25, 1989. Mr. Whitehead listed several deficiencies concerning the above referenced project. The following information should adequately address the concerns expressed by Mr. Whitehead. In summary:

WATERSHED PARAMETERS (EXHIBIT A)

Distribution	SCS Type II
Design Storm Event	100-year, 24-hour
Rainfall Depth	3.4 inches
Area	0.2813 sq. miles
Curve Number	86
Watershed Length	4,448 feet
Watershed Slope	38.7%
Time of Concentration	0.2298 hrs.
Peak Flow (Table 1)	339 cfs

CHANNEL PARAMETERS (DRWG. DS1098A, SHEET 1 & 2)

Channel Slope	3.8%
Bottom Width	5 ft.
Side Slope	0.5 (2:1)
Manning's N	.025
Discharge	339 cfs
Flow Depth	2.34 ft.
Velocity	14.98 fps

Although the calculations indicate an erosive velocity, a field inspection by Division Hydrologist Tom Munson (3/6/89) verified the conclusion that the realigned channel is no more susceptible to erosional damage than is the natural channel. Therefore, it is proposed that no additional channel protection be installed.

The area will be inspected by UP&L personnel and Division Inspectors to insure the proposed measures are adequate.

Your assistance in this matter is appreciated. If you have questions please call me at (801) 687-9821.

Sincerely,



Val Payne
Environmental Engineer

VP:do
Attachment