



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 14, 1986

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

Dear Mr. Shingleton:

Re: Conditional Approval of MRP Amendment Plans, Cottonwood Fan Portal Hydrology, Utah Power & Light Company, Wilberg/Cottonwood Mine, ACT/015/019-(86E), Folder 3 & 4, Emery County, Utah

The Division has completed the review of Utah Power & Light Company's July 16, 1986 submittal which identify proposed hydrological changes stemming from the county road upgrading in Cottonwood Canyon. The attached technical memo identifies conditions which should be incorporated into construction design details for the proposal. Upon the Division's receipt of a written response from Utah Power & Light agreeing to implement said technical recommendations, the Division will be prepared to finalize our approval of this proposal. If possible, please provide a response by August 20, 1986.

Please contact me or Tom Munson of the technical staff, should you have questions or concerns regarding this review. Thank you for your cooperation in completing this permitting action.

Sincerely,

A handwritten signature in cursive script that reads "D. Wayne Hedberg".

D. Wayne Hedberg
Permit Supervisor/
Reclamation Hydrologist

DWH:jvb
Enclosure

cc: A. Klein L. Braxton
 J. Whitehead T. Munson
 P. Ralphs

8992R-64

July 28, 1986

TO: File

FROM: Tom Munson, Reclamation Hydrologist *TM*

RE: Cottonwood Fan Portal Hydrology, Deer Creek Mine, Utah
Power and Light, ACT/015/018, Emery County.

I have the following comments on the plan.

1. Riprapping the ditch prior to the gabion structures may cut back on maintenance and accumulation of sediments behind these structures.
2. No mention of rock size for these structures has been made and must be included in their design, as well as dimensions included on the "Typical Gabion" drawing.
3. The following guidelines are suggested for gabion construction.
 - (a) A well-graded distribution of angular rock from 6-24 inches be used for gabion construction.
 - (b) An apron section at least ten feet long be placed below the gabion and filter blanket (two inch minus material, six inches deep, must be placed under the apron and any of the riprap used in this ditch.
 - (c) A keyway be constructed (24 inches wide and deep and excavated into the ditch bed and banks). This will help prevent short-circuiting either underneath or around the structure.

djh
cc: John Whitehead
Wayne Hedberg
9486-23