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UTAH POWER & LIGHT COMPANY

P. O. BOX 899
SALT LAKE CITY, UTAH 84110

August 1, 1980

#2

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Division of Oil, Gas and Mining
1588 West North Temple Street
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Attn: Mr. Lee Spencer
Reclamation Engineer

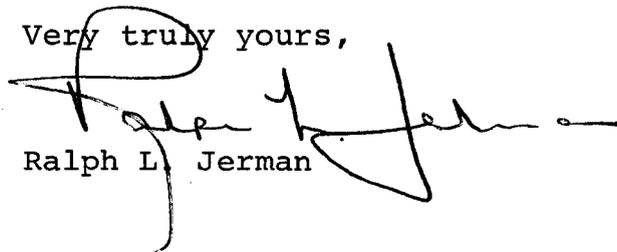
Re: Cottonwood Portal ACT 015/027

Gentlemen:

In response to Mr. Spencer's letter of June 26, 1980, we obtained and enclose an additional report from our consulting engineers, Rollins, Brown and Gunnell, Inc. This report addresses the two problems raised in Mr. Spencer's letter.

If anything further is required in this regard or if you have any questions, please contact me.

Very truly yours,



Ralph L. Jerman

RLJ:p

Enclosure





ROLLINS, BROWN AND GUNNELL, INC.

PROFESSIONAL ENGINEERS

July 8, 1980

RECEIVED
Signed
JUL 8 1980

Utah Power and Light Company
Mining and Exploration Division
1407 West North Temple
Salt Lake City, UT 84110

MINING AND
EXPLORATION

ATTENTION: WILLIE J. WHITNEY, JR.

Gentlemen:

In response to your recent request, we have investigated the waste dumps associated with the proposed Cottonwood Mine in Cottonwood Canyon west of Orangeville, Utah.

The purpose of this investigation was to address two items concerning the fills that were observed by the Division of Oil, Gas and Mining personnel on their visit June 5, 1980. At that time, it was expressed that there was some evidence of a slope failure on waste pile No. 1 across the road from the Trails Mountain Mine's sediment pond.

During our visit, a number of shrinkage cracks were observed along the top of the fill. However, an examination of the slope reveals no evidence of slope failure. At the time of our visit, a great deal of oversize rock material had been worked to the bottom of the slope. It is our opinion that at the present time no problems associated with slope stability of waste pile No. 1 exist.

We have been informed that continued working of the slopes to remove the oversize material is anticipated. It was observed during our visit that some drainage and ponding has occurred either near or over the edge of the slopes of waste pile No. 1. We feel that grading toward the hillside, so that drainage can occur away from the waste pile, would be helpful.

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An answer to a second item pointed out by the Division of Oil, Gas and Mining concerning the drainage ditch constructed along the road at the base of the fills is in order. It was felt that during the visit of June 5 the drainage ditch had undercut the toe of the fill and that perhaps this undercut might lead to a problem with slope stability. It was observed during our visit that the maximum cut for the drainage ditch was two feet, and in most cases the slope was not cut by the excavation for the ditch. Again, it is our opinion that there is no need for concern for slope stability due to the construction of this ditch.

If there are any further questions regarding this matter or our original report of May 18, 1980 concerning the slope stability for the Cottonwood Mine portal, please feel free to contact us.

Yours truly,

ROLLINS, BROWN AND GUNNELL, INC.

Ralph Rollins

Ralph L. Rollins

MTC/lgw

I will refrain from comment until plans are submitted. AIA

There are four modes of failure & Rollins, Brown & Gunnell have addressed only one. The others are:

- 1. Crest failure*
- 2. Slump (outslope) (Shallow) the existing failure*
- 3. Foundation failure*

