

0045



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DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

August 1, 1988

This letter sent to the following: Bill Warmack, P.F.O.  
George Morris, USFS  
Robert Hagen, AFO  
and Peter Rutledge, OSM-DVR

Re: Final Approval of Deer Creek Permit Amendments Associated with TDN #X-87-02-006-016-TV-6, Utah Power and Light Company, Deer Creek Mine, ACT/015/018-88C, Folder #3, Emery County, Utah

The Division has completed its review of the above-noted amendments received in our office on June 20, 1988. Revised pages 3-17, 3-47, and 4-22 are hereby approved and incorporated into the Permit Application Package (PAP) for the Deer Creek Mine.

Attached are copies of the revised pages for your records. This material is for your files.

Thank you for your cooperation in this matter. Please feel free to contact me if you should have any questions.

Sincerely,

John J. Whitehead  
Permit Supervisor/  
Reclamation Hydrologist

djh  
Attachment(s)  
cc: J. Helfrich  
0341R/31



1407 West North Temple  
P.O. Box 899  
Salt Lake City, Utah 84110

RECEIVED  
JUN 20 1988

DIVISION OF  
OIL, GAS & MINING

June 20, 1988

Mr. John Whitehead, Permit Supervisor  
Division of Oil, Gas & Mining  
State of Utah  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: TDB #X-87-02-006-016-TV-6,  
Utah Power & Light Company, Deer Creek,  
ACT/015/018, Folder No. 015,  
Emery County, Utah

Dear Mr. Whitehead:

The following are changes to the Deer Creek permit to  
comply with TDN's 2 of 6, 3 of 6 and 5 of 6.

TDN 2 of 6: Pages 3-17 and 3-47 have been revised to  
reflect that inspection reports will be kept on file  
in the Utah Power & Light - Mining Division Office in  
Huntington, Utah.

TDN 3 of 6: Page 4-22 has been revised that beginning with  
the 1987 growing season annual reports will be kept on  
file with the Utah Power & Light - Mining Division  
Office in Huntington, Utah, and forwarded to D.O.G.M.

TDN 5 of 6: Page 3-17 has been revised to state that the  
sediment pond embankment has been riprapped.

If you have any questions please call.

Sincerely,

David Smaldone  
Director of Permitting,  
Compliance & Services  
Mining Division

DS:bb:5993  
Enclosure

The outlet works for the sediment pond are constructed of 24" CSP, screened to prevent clogging and capped with a skimmer ring.

The sediment pond embankments are riprapped to minimize erosion.

Maintenance of the sediment pond includes quarterly inspections and discharge monitoring. Copies of inspection reports by a registered professional engineer will be kept on file in the Utah Power & Light Company-Mining Division Office in Huntington, Utah. Deer Creek sediment pond has not discharged since its installation. The pond will be dredged of sediment when sediment volume is 60% of design capacity.

Reclamation of the pond will complete the proposed Deer Creek reclamation process. The pond will be allowed to dry followed by backfilling and grading. Graded contours will be compatible with the natural surroundings. Revegetation will be performed as outlined in Reclamation Plan.

Mine Facilities Pad -- An earthen fill structure is utilized for material storage and personnel facilities. The fill occupies approximately 8½ acres. Construction material for the fill was obtained from the south slope of the Deer Creek drainage and from the sediment pond excavation.

Approximately 30% of the fill structure is asphalt surfaced providing access and personnel parking. The remaining 70% is utilized for material storage, office-bathhouse, warehouse-shop, and electric substation.

An annual inspection report of the pond's physical condition with recorded water and sediment levels will be kept on file in the Utah Power & Light Company-Mining Division Office in Huntington, Utah.

Deer Creek Mine has been issued an N.P.D.E.S. Permit whose identification number is UT-0023604. There is one outfall associated with this permit.

Approval of the sedimentation ponds by the appropriate state and federal agencies has been given for the Deer Creek sedimentation pond. To date no discharge has occurred. Company states that the pond meets the performance standards of Subchapter "K" and requires no modification.

#### Group I (Hydrological Association)

##### Diversion System

Deer Creek Mine is located in a narrow canyon drainage - Deer Creek. The mine proper is situated at the junction of two small tributaries to the Deer Creek drainage, Right Fork and Elk Canyon. The Right Fork and Elk Canyon drainages are ephemeral in nature.

To meet the initial regulations (effective December 13, 1977) Company planned and constructed with approval from the regulatory authority, an underground diversion system (see Map 3-12). Each drainage was diverted using corrugated metal pipe sized to meet a 50-year 24-hour event. Hydrological and engineering calculations are included in the appendix.

6. Beginning with the 1987 growing season an annual report that summarizes the year's work will be placed in the Company's files and forwarded to D.O.G.M.
7. The soil materials on the fill slopes would be sampled at five year intervals to record productivity changes. Ten samples at 0-20" depths would be compiled from each of the two fill slopes for analysis. Analysis would include:

Organic Nitrogen  
 Phosphorous (ppm)  
 Potassium (ppm)  
 Nitrate Nitrogen  
 Sodium Absorption Ratio  
 Electrical Conductivity (mmhos/cm)  
 pH

The soil sampling after final regrading at all locations will be two samples/acre at 0-20" depth composited and core samples to specifically detect aberrant SAR levels. One core per fill with samples at 2 foot intervals to bottom of fill.

Final Revegetation Plan

The final revegetation plan may be revised to incorporate the results of the interim revegetation plan.

Seed Mixture

1. Pinyon-Juniper

<u>Common Name</u>	<u>Scientific Name</u>	<u>Lbs/Acre</u> <u>Equivalent PLS*</u>
<u>Grasses</u>		
Western Wheatgrass	<u>Agropyron smithii</u> var. Rosanna	6
Salina Wildrye	<u>Elymus salinus</u>	2
Indian Ricegrass	<u>Oryzopsis hymenoides</u> var. Paloma	4
Squirreltail	<u>Sitanion hystrix</u>	3
Thickspike Wheatgrass	<u>Agropyron dasystachyum</u> var. Critana	5