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STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

June 8, 1983

Mr. Chris E. Shingleton  
Director of Services  
Mining and Exploration  
Utah Power & Light Company  
P. O. Box 899  
Salt Lake City, Utah 84110

RE: Approval and Stipulations for  
Abatement of NOV 83-4-1-1  
Deer Creek Mine  
ACT/015/018A  
Folder Nos. 4 and 7  
Emery County, Utah

Dear Mr. Shingleton:

The modified abatement plans received by the Division on May 31, 1983 have been reviewed and found to be acceptable. After a constructive on-site visit it was agreed upon that Utah Power & Light Company (UP&L) would submit modified abatement plans eliminating certain culverts and ditches. After reviewing the modified plans that UP&L has put together, the following additional information is requested, stipulations included, as well as general comments listed. They are as follows:

Additional Information

1. Letter of certification was not included.
2. The Last Bar Ditch along C1 mentioned on page 2, paragraph 2, sentence 5 is not shown on Plate II. Approximately how far will it be from culvert #2?
3. The locations of typical cross-sections have not been located on Plate II.
4. One additional copy of this plan needs to be submitted to the Division to make a total of four plans, two for DOGM and two for OSM.

### Stipulations

1. The operator will be responsible to provide proper erosion controls for all water bars, diversions, culverts, etc., especially at discharge points associated with the road and the conveyor.
2. The drainage controls implemented by the Division will be subject to an on-site inspection, following completion of construction.

### General Comments

1. All diversion ditches on the north side of the conveyor will not be deleted. There are existing vegetated water pathways which were deemed adequate during the May 17, 1983 on-site reievw. Therefore, only two small sections of diversions need to be constructed as shown on Plate II.
2. Due to the nature of the soil and the operator's commitment to limit activity during construction of the new sections of diversion and revegetate those areas disturbed upon completion of the activities. We feel that the topsoil questions have been adequately addressed.
3. Realizing that it is difficult to know exactly how much grading and berm work will be required along the conveyor and its maintenance road to achieve proper drainage control, the operator is reminded that he is basically required to control erosion and treat all runoff from the conveyor and road prior to entering Deer Creek.

### Revegetation and Reclamation

The revegetation aspects of the abatement plans for Sites #1, #2 and #3 are approved. It is suggested, however, that the operator reduce the amount of yellow sweetclover (Melilotus officinalis) to be seeded with barley (Hordeum vulgare) as temporary cover. The amount should be reduced from the proposed 20 pounds Pure Live Seed (PLS)/ac to 5 pounds PLS/ac. This recommendation is based on the relatively small seed size of yellow sweetclover as compared to barley (260,000 s/lb vs. 14,000 s/lb) and the contention that the use of more than 5 lbs PLS/ac yellow sweetclover in combination with 100 lbs PLS/ac barley would be unnecessary from a cost/efficiency standpoint.

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Thank you for your cooperation in this matter and if you have any further questions, please call Mary Boucek, Dave Lof or myself.

Sincerely,

*Thomas Munson*

THOMAS MUNSON  
RECLAMATION HYDROLOGIST

TM/btb

cc: Allen Klein, OSM  
M. Boucek, DOGM  
D. Lof, DOGM  
J. Smith, DOGM