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State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Norman H. Bangert
Governor

Dee C. Hansen
Executive Director

Dianne R. Nielson, Ph.D.
Division Director

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

February 21, 1991

Mr. Blake Webster
Permitting Administrator
PacifiCorp Electric Operations
Fuel Resources
324 South State Street
P.O. box 26128
Salt Lake City, Utah 84126-0128

Dear Mr. Webster:

Re: Drainage Amendment, PacifiCorp Electric Operations, Deer Creek Mine,
ACT/015/-018-91A, Folder #2, Emery County, Utah

Enclosed please find a memo outlining the deficiencies related to the operation and reclamation plans for the two culverts identified in NOV #N90-32-6-1.

Please submit complete and adequate information related to this amendment by March 15, 1991, to the Division.

Sincerely,

A handwritten signature in cursive script, reading 'Pamela Grubaugh-Littig'.

Pamela Grubaugh-Littig
Permit Supervisor

jbe
Enclosure
cc: T. Munson
AT015018.8



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February 20, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Tom Munson, Senior Reclamation Hydrologist *TM*

RE: PacifiCorp Drainage Amendment, PacifiCorp Electric Operations, Deer Creek Mine, ACT/015/018-91A, Folder #2, Emery County, Utah

Synopsis

A violation, NOV #N90-32-6-1, was written concerning two culverts and their appropriate documentation on maps and calculations in the PAP. This memo addresses the additional information submitted to add these culverts to the PAP.

Analysis

The operator has provided the following information regarding the 6' culvert and the 8'2" X 5'9" arch culvert:

- 1) The peak-flows based on a 2 year-6 hour event for the immediate drainage area adjacent to the culverts.
- 2) The total peak flows draining to 8'2" X 5'9" arch culvert.
- 3) Figure 3 and Map DS 202E (Packet 3-9).

The following information is still lacking and the operator will need to submit this information:

- 1) Inlet and outlet protection on both culverts based on expected headwater and outlet pipe flow velocities.
- 2) A drainage map of appropriate scale must be provided or referenced to showing total drainage area. Please note: that the 6' culvert is just downstream of the sediment pond outlet and subsequently must pass the expected peak flow from the sediment pond. Please verify this in your calculations.

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- 3) It was verified in the field that the 5'9" X 8'2" arch culvert has only 4 feet of remaining head due to sediment and bedload deposition. Please note this in your capacity calculations.
- 4) All culvert lengths and slopes must be included.
- 5) Reference to channel reclamation for these culverts, if appropriate, must be documented.
- 6) If trash racks are not installed then discussion regarding the lack of trash racks would be considered essential.

Recommendation

The operator has failed to provide detailed operation and reclamation plans for these two culverts and must address all the outlined concerns in the analysis section of the memo prior to approval.

jbe
AT015018.6