

0021

January 7, 1985

TO: Coal File

FROM: Thomas Munson, Reclamation Hydrologist *TM*

RE: Review of Applicant's Response to Special Condition #1
(December 20, 1985), Utah Power & Light Company, Deer
Creek Mine, ACT/015/018, #2, Emery County, Utah

Condition No. 1

Within 30 days of the permit effective date, the permittee shall calculate the sediment pond storage volume minus sediment storage volume and water volume between full sediment level and the dewatering pipe intake (water which cannot be evacuated after a storm event) and submit the calculations to the regulatory authority for review. The permittee must show that the net available volume in the sediment pond is sufficient to contain the 10-year, 24-hour storm event (calculated to be 8.0 acre-feet). If the net available volume of the pond is not sufficient to contain the 10-year, 24-hour storm event, the permittee shall modify the sediment pond system to ensure that the volume of the 10-year, 24-hour storm event can be stored as required by UMC 817.42 and 817.46. Any necessary modifications to the sediment pond system must be completed within 120 days of permit issuance.

Applicant's Response

The applicant surveyed the pond to determine the as-built construction of the sediment pond. The actual decant level has been surveyed and located at elevation 7,216.3 rather than the elevation of 7,217.5 as originally submitted. The applicant contends this will provide 8.0 plus acre-feet of storage volume between the spillway invert and the standpipe decant level, satisfying Condition #1 stated above.

Compliance

Approved on January 7, 1986 by Tom Munson. Contained within the Deer Creek permit is a drawing No. CM-10593-DR detailing the Sedimentation Pond Cross Sections, STA 0-50 through STA 3-43. The applicant plotted the surveyed elevation of the decant 7,216.73 on each cross section and calculated the volume between the decant and the spillway at elevation 7,230.5 for each cross section and then averaged these volumes between each cross section. The attached calculations support the volume of 8.6 acre-feet between the decant and the spillway.

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Calculations

See attached calculation sheet and drawing CM-10593-DR. The methods for determining these volume calculations were shown to Tom Munson on January 7, 1986 by Utah Power & Light Company and were approved on this date as well.

btb
Attachments
cc: John Whitehead
9486R-11 & 12