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State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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February 13, 1997

TO: File

THRU: Joe Helfrich, Permit Supervisor

FROM: Sharon Falvey, Reclamation Hydrologist SKF

RE: Technical Analysis N96-41-2-1, Remedial Action Plan, Nevada Electric Investment Company, ACT/007/012, Folder #3, Carbon County, Utah.

SYNOPSIS:

This analysis provides a cursory review of the information submitted on January 27, 1996. The information submitted included an action plan and maps of a proposed modification to address violation N96-41-2-1.

The proposal includes removing the existing primary spillway and blocking off the culvert with a cement plug, providing a single open channel spillway at the elevation of the existing primary spillway and, removing the existing decant structure. The existing spillway will be raised and used as an inlet.

TECHNICAL ANALYSIS:

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: R645-301-700.

The following details the additional information that needs to be submitted to the division prior to approving this action plan.

1. Appropriate changes to the text and design information in the existing plan must be updated to incorporate the proposed modifications in a format that can be directly inserted into the plan.

2. Removal of the primary spillway, a drop inlet structure, no longer provides the detention time to prevent short circuiting from the inlet at the northwest corner

of the pond (the auxiliary pond inlet). This becomes a problem if water contained in the pond does not allow for adequate storage to contain the design runoff volume. A commitment to decant the pond before this stage is reached and decant procedures must be provided in the text of the plan.

3. Details for the inlet from the auxiliary pond (or, auxiliary pond spillway) should also be included in the amendment. Proposed elevation and design changes at this inlet must be provided to assure the pond will function as designed.

It should be noted that the proposed designs may not be considered adequate should the pond be used for anything other than a sedimentation pond. For example, this design would not be appropriate for treating water that may be used as a retention pond in coal processing procedures. Specifically an oil skimmer of some type may be necessary for process waters.

Findings:

This amendment does not meet the minimum requirements of the regulations. The permittee must provide the following in accordance with the requirements of the regulations.

R645-301-121.300. The permittee must provide the appropriate changes to the text and design information in a format that can be directly inserted to the existing plan.

R645-301-730. The permittee must provide a description in the plan which indicates how the provisions of R645-301-742.- 32 and -34, will be met.

R645-301-742.314. Details for the proposed elevation and design changes to the pond inlet located at the northwest corner of the pond (auxiliary pond spillway) must be provided to assure the pond will function as designed.

Recommendation:

It is recommended the permittee provide a complete application for permit approval with text and design changes that can be directly incorporated into the plan prior to approval.

cc: Paul Baker
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