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# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter  
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 10, 1992

Mr. Kevin Cheeks  
Consolidation Coal Company  
12755 Olive Boulevard  
St. Louis, Missouri 63141

Dear Mr. Cheeks:

Re: Denial, Pond #3 Spillway Change, Consolidation Coal Company, Emery Deep Mine, ACT/015/015-91E, Folder #3, Emery County, Utah

The submittal received on December 6, 1991 regarding the above noted permitting action was reviewed and found to be inadequate by Rick Summers, Senior Reclamation Hydrologist, of the Division's technical staff. Enclosed you will find a copy of his technical review memo which further discusses this amendment.

The Division hereby denies the above referenced action. It is the Division's understanding that you are submitting another amendment which should satisfy requirements of R645-301-742.224. If you have any questions please call me or Rick Summers.

Sincerely,

A handwritten signature in black ink that reads "Daron R. Haddock".

Daron R. Haddock  
Permit Supervisor

mbm  
Enclosure  
cc: R. Summers  
J. Helfrich  
SPILL#3.LTR



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January 28, 1992

**TO:** Daron Haddock, Permit Supervisor

**FROM:** Rick P. Summers, Senior Hydrologist 

**RE:** Review Emergency Spillway Pond #3 (Received December 6, 1991), Consolidation Coal Company, Emery Deep Mine, ACT/015/015, Emery County, Utah

## SUMMARY

Essentially, this proposal consists of: 1) disconnecting the current 8 inch discharge line from Pond 2 to Pond 3 (ponds currently in series); and 2) installing an emergency spillway for Pond #3. In the proposed final configuration, Pond #2 will have a 12 inch gated decant with a riprap lined emergency spillway. Pond #3 will have a primary drop inlet spillway with a 42 inch riser and 8 inch barrel, two (2) 6 inch decant devices, and an emergency spillway (riprapped control section and unlined exit channel).

The information submitted includes an amendment to the pond calculations in Appendix VI-7 and a revised Plate VI-15. This review consisted of verifying the assumptions used in the design, verifying the peak inflow rate to Pond #3, and validating the riprap requirements for the proposed spillway. Drainage areas and pond stage-volume calculations were not redone for this review as they have not deviated from the originally approved MRP designs.

The applicant has used the HEC-1 model to route the flows in the pond and determine a peak discharge rate. Input assumptions and model results were presented, but copies of the model runs were not included. Further, it is noted that the model runs are not included in the MRP for any of the ponds at the Emery Deep Mine.

Mr. Craig Plumley, project engineer for Consol, was contacted via telephone on 1/27/92 regarding this HEC-1 runs. He said they were available in the files and he would forward copies of the runs to the Division for all the ponds. He stated he would also provide a certification for the updated/revised designs.

Page 2  
Memo/R. Summers  
ACT/015/015  
January 28, 1992

However, Mr. Plumley contacted me on 1/28/92 and indicated he wanted to pursue demonstration of compliance with Rule R645-301-742.224 which allows for pond design, which relies on control of the event, in lieu of meeting the two spillway requirements of R645-301-742.223. I informed him of the necessary information required for the submittal, faxed him a copy of the recently adopted rule, and informed him we would deny this amendment and await a revised amendment for this pond.

## CONCLUSION

It is recommended that Consolidation Coal Company be denied approval for the proposed amendment to construct an emergency spillway for Pond #3 and disconnect the discharge line from Pond #2 to Pond #3. A forthcoming amendment from the operator will propose compliance with R645-301-742.224, in lieu of the requirements of R645-301-742.223.

cc: B-Team  
EMYSPLL3.RS