



State of Utah
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October 3, 1997

TO: File

THRU: Joe Helfrich, Permit Supervisor *JH*

FROM: Sharon Falvey, Senior Reclamation Specialist *SKF*

RE: Culvert Extension 97D, Horizon Coal Company, Horizon Mine, ACT/007/020-97D 9/897 and 9/30/97, Folder #2, Carbon County, Utah.

SYNOPSIS

This amendment, received on September 18, 1997 and September 30, 1997 is reviewed and deficiencies are noted. Applicable portions of the T.A. will be incorporated in the final approval. Although the proposal it's self does not represent a major change to the plan. The change in the disturbed area and contour information will require updates to all applicable maps in the MRP.

ANALYSIS

OPERATION PLAN

HYDROLOGIC INFORMATION

Regulatory Reference: 30 CFR Sec. 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

Analysis:

Diversions.

Additional information on the extension to UC-3 is provided in Appendix 3-9. Culverts UC-1 and UC-3 receive drainage coming from the Jewkes Creek, an intermittent stream, designed to carry the flow from a 100-year, 6-hour event. This extension does not negatively affect the capacity of the existing stream channel culvert.

Stream Buffer Zones.

The permittee must demonstrate that all requirements of 742.300 have been met prior to approval and findings of this section (see R645-301-742.322). The permittee is required to provide the stream buffer zones and assure they are adequately marked during the channel construction. The text indicates buffer zone signs will be placed adjacent to Jewkes Creek, a sign must also be placed at the upstream boundary of the buffer zone. This is a performance standard which will be enforced in the field.

The permittee has provided a copy of the stream alteration permit 97-91-08SA for the proposed extension. This permit expires on August 14, 1998.

Sediment Control Measures.

According to the certified letter from Richard White P.E. in appendix 3-9. The additional disturbed area does not increase the runoff volume to the sedimentation pond because the actual disturbed area is less than that determined in the approved plan. However the increase in undisturbed area runoff draining to the pond was not addressed. Based on the submitted drawing and the watersheds depicted on Plate 7-5 it was estimated that the area has increased by about 0.32 acres. An additional error in watershed area was identified in this review and resulted in the subsequent submittal received on 9/30/97.

To respond to the error, Mr. White submitted a letter justifying the adequacy of existing storage for the additional disturbed error and the watershed area. It was agreed that this would be adequate with changes presented on the map. However, the memo did not include a certification required under R645-301-742.213 and cross reference R645-301-743. Additionally an adequate number of copies of this letter were not submitted. Because the approved plan indicates a disturbed area of 9.15 acres and the actual disturbed area is 8.23 acres it appears that this additional area could be adequate. However the proposed disturbed area and adjacent watershed areas were not adjusted on plate 7-5, therefore, verification of the presented information could not be conducted.

Findings:

The permittee must provide the following, in accordance with the requirements of:

R645-301-731. Provide maps and descriptions containing current information

specific to the local hydrologic conditions. Include the disturbed and undisturbed area watersheds depicted on Plate 7-5, as well as, updated runoff and sedimentation pond designs.

R645-301-742.213 cross reference R645-301-742.213. Provide the required certification for the submitted maps and certified design for the sedimentation pond.

Recommendation:

Accurate maps for existing site conditions need to be submitted. The most recent survey information has been provided on Plate A. The letter to Daron Haddock, contained as part of the amendment indicates that revised copies of Plates 3-1, 3-7 and 7-4 will be submitted once the extension is approved and the county road surveyed. The inaccuracies of previous maps has led to a continual problem with updating and changing the plan and coordinating proposed changes with the permit amendments. It is therefore, recommended that this permit be denied until accurate maps for disturbed watershed areas related to the sedimentation pond design and this culvert extension be submitted prior to approval. It is recognized that these changes will probably result in having to correct the designs for all disturbed area drainage. These changes should be coordinated in a schedule with the operator to arrive at an accurate account of final watershed drainages and final operational site configuration.