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TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

October 11, 2010

TO: Internal File

THRU: Jim Smith, Permit Supervisor *JS*

FROM: Steve Christensen, Environmental Scientist *S/C*

RE: Addition of Ditch DD-10A, Genwal Resources, Inc., Crandall Canyon Mine, C/015/0032, Task ID #3616, Outgoing File

SUMMARY:

On September 16th, 2010, the Division of Oil, Gas and Mining (the Division) received an amendment from Genwal Resources (the Permittee). The amendment provides revised surface facility maps, figures and design calculations for a newly constructed disturbed area drainage ditch (DD-10A) at the Crandall Canyon Mine site.

A large rainfall event at the mine dislodged coal fine material off of an area directly above the high wall located adjacent to the north portals. The dislodged coal fine material was inadvertently routed to UPDES Outfall 002 and reported directly to Crandall Creek as opposed to remaining within the disturbed drainage network and reporting to the primary sediment pond.

As a result, the Division issued a Notice of Violation (NOV #10065). The NOV cited the Permittee's failure to maintain appropriate sediment control measures to prevent, to the extent possible, additional contributions of sediment outside the permit area and a failure to minimize disturbance to the hydrologic balance.

The design information submitted by the Permittee (relative to the construction of disturbed drainage ditch DD-10A) meets the abatement requirements outlined in NOV #10065.

The amendment is recommended for approval by the Division.

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TECHNICAL 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: Miscellaneous Flows

The amendment meets the Diversions: Miscellaneous Flow requirements as required by the State of Utah R645-Coal Mining Rules.

The Permittee has submitted a revised drainage map for the Crandall Canyon Mine Site (Plate 7-5) that depicts the location of newly constructed drainage ditch DD-10A.

Additionally, the Permittee has submitted the design calculations for the sizing of drainage ditch DD-10A. The design information is located within Appendix 7-4 of the approved MRP.

Disturbed drainage ditch DD-10A has been sized to safely pass a 10-year/6-hour storm event. As ditch DD-10A is a diversion of miscellaneous flows, the performance standard required by the State of Utah R645-Coal Mining Rules is a 2-year/6-hour storm event. As a result, ditch DD-10A is oversized.

Findings:

The amendment meets the Diversions: Miscellaneous Flow requirements as required by the State of Utah R645-Coal Mining Rules.

RECOMMENDATIONS:

The amendment is recommended for approval.

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