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TECHNICAL MEMORANDUM

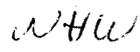
Utah Coal Regulatory Program

February 12, 2007

JK

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor 
Karl R. Houskeeper, Environmental Scientist/Engineering, Team Lead 

FROM: Wayne H. Western, Environmental Scientist/Engineering, Bonding 

RE: Midterm Review; Genwal Resources Inc., Crandall Canyon Mine, C/015/0032,
Task ID #2744

SUMMARY:

The Division initiated the midterm review on February 9, 2006. This memo addresses the engineering and bonding issues. The Division received additional information on February 2, 2007.

TECHNICAL ANALYSIS:

OPERATION PLAN

SUBSIDENCE CONTROL PLAN

Regulatory Reference: 30 CFR 784.20, 817.121, 817.122; R645-301-521, -301-525, -301-724.

Analysis:

Subsidence Control Plan

The Permittee meet the minimum requirements for the subsidence control plan. The subsidence control plan in the MRP is complete.

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Findings:

The information in the MRP is adequate to meet the minimum requirements of this section.

MAPS, PLANS, AND CROSS SECTIONS OF MINING OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-512, -301-521, -301-542, -301-632, -301-731, -302-323.

Analysis:

Mining Facilities Maps

The Permittee did not meet the requirements of R645-301-521.150 and R645-301-521.151. The Permittee must show the contours or angle of inclination for all areas that are within 100 feet of the disturbed area boundaries on Map 5-3 or an equivalent map.

Findings:

The information in the MRP is not adequate to meet the minimum requirements of this section. Before the Division can approve the midterm review, the Permittee must provide the following in accordance with:

R645-301-521.150 and R645-301-521.151, The Permittee must show the contours or angle of inclination for all areas that are within 100 feet of the disturbed area boundaries on Map 5-3 or an equivalent map. Note: the distance from the east end of the disturbed area (rip rap outlet & energy dissipater) to the end of the contours is less than the required 100 feet. The same is true for the west end of the disturbed area (culvert inlet and flume.) R645-301-521.151 states "Each measurement will consist of an angle of inclination along the prevailing slope extending 100 linear feet above and below or beyond the coal outcrop or the area to be disturbed, or, where this is impractical, at locations specified by the Division."

RECLAMATION PLAN

MAPS, PLANS, AND CROSS SECTIONS OF RECLAMATION OPERATIONS

Regulatory Reference: 30 CFR Sec. 784.23; R645-301-323, -301-512, -301-521, -301-542, -301-632, -301-731.

Analysis:

Final Surface Configuration Maps

The Permittee did meet the minimum requirements of this section. The Permittee must update all reclamation maps and cross sections in the MRP. Examples of maps that are out dated include but are not limited to Plate 5-16 and Plate 5-17. Those maps are dated July 30, 1997, which was before the culvert expansion. The disturbed area boundaries on the maps do not match those on Plate 5-3, which was incorporated on February 3, 2006. The reclamation cross sections were incorporated on April 2, 2003, which postdates the reclamation maps. In addition, the reclamation maps and cross sections must show the topography at least 100 feet outside of the disturbed area boundaries. The Division recommends that the Permittee and the Division do a side-by-side with the copies of the MRP.

Findings:

The information in the MRP is not adequate to meet the minimum requirements of this section. Before the Division can approve the midterm review, the Permittee must provide the following in accordance with:

R645-301-542.300, The Permittee must update all reclamation maps and cross sections in the MRP. Examples of maps that are out dated include but are not limited to Plate 5-16 and Plate 5-17. Those maps are dated July 30, 1997, which was before the culvert expansion. The disturbed area boundaries on the maps do not match those on Plate 5-3, which was incorporated on February 3, 2006. The reclamation cross sections were incorporated on April 2, 2003, which postdates the reclamation maps. In addition, the reclamation maps and cross sections must show the topography at least 100 feet outside of the disturbed area boundaries. The Division recommends that the Permittee and the Division do a side-by-side with the copies of the MRP.

BONDING AND INSURANCE REQUIREMENTS

Regulatory Reference: 30 CFR Sec. 800; R645-301-800, et seq.

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Analysis:

Determination of Bond Amount

The Permittee did not meet the requirements for determining the bond amount. The Permittee must include revised bond calculations that are escalated to 2010. The Division will provide the Permittee with a copy of the revised bond calculations in either paper or electronic format. **Note: the revised bond calculations incorporated in February 3, 2006 did not escalate the bond to 2010.**

Findings:

The information in the MRP is not adequate to meet the minimum requirements of this section. Before the Division can approve the midterm review, the Permittee must provide the following in accordance with:

R645-301-830.110 and R645-301-830.300, The Permittee must include an updated reclamation cost estimate based on 2007-year unit costs and escalated 2011 costs. The Division will give the Permittee a copy of the revised reclamation cost estimate in either hard copy or electronic format.

RECOMMENDATIONS:

The Division should require the Permittee to increase the bond to \$1,698,000 and include updated bond calculations in the MRP. In addition, the Permittee must also include the missing information as mentioned above.