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# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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April 27, 2010

TO: Internal File

THRU: Steve Christensen, Hydrologist, Team Lead *SC*

FROM: James Owen, Reclamation Engineer *JO*

RE: Add Zero Zero North Wedge Area, Consol Energy's Consolidation Coal Company, Emery Deep Mine, C/015/0015, Task ID #3527

**SUMMARY:**

On April 6, 2010, Consolidation Coal Company submitted an application to the Division to add an additional 14 acres (adjacent area) to the Emery Deep Mine permit (C/015/0015). The new area is on the northeast boundary of the current mining area. Consol will be utilizing a pillar splitting plan what would fall into the planned subsidence category.

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**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 company will be using a pillar mining method, which will not vary from mining method currently used throughout the permit area. The mining method used will fall into the planned subsidence category.

**Findings:**

Pre subsidence surveys are present as well as a plate depicting subsidence monitoring points and buffer zones. The Zero Zero North wedge is not within or affected by structural buffer zones, stream buffer zones, or AVF zones. Minimal subsidence is predicted. The area does not have any current or proposed subsidence monitoring points. The distance from the nearest subsidence monitoring point (06-20) to the wedge's western most edge is approximately 1000 ft, which shall be considered adequate for subsidence monitoring and control.

## **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:**

The submittal includes the required mining operations maps including ownership, permit boundary, bonding, underground operations, pre-subsidence, subsidence monitoring, buffer zones, drill hole, seam geology, ground water monitoring, surface water monitoring, mining sequence, vegetation, and land use maps. A registered professional engineer has certified the maps.

### **Findings:**

Based on the information provided, the relevant, required maps, plans and cross sections are present and adequate.

### **RECOMMENDATIONS:**

This amendment is recommended for approval in terms of requirements for engineering and engineering design.