

# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

June 9, 2005

TO: Internal Files

FROM: Stephen J. Demczak, Environmental Scientist III/Engineering, Team Lead

RE: Update Surface Facilities Map and Bonding, PacifiCorp, Deer Creek Mine, C/015/018, Task ID #2258

## **SUMMARY:**

The permittee has requested to do two-construction projects in this amendment. The permittee would like to construct, as soon as possible, a concrete pad, retaining wall, and access way by the sediment pond. This is to collect sediment from the mine site prior to entering the sediment pond. The permittee sees this action as a cost savings and safety project. The retaining wall will provide safe access to C1 conveyor.

The second project is scheduled to begin during miner's vacation in July 2005. It is called ROM belt drive replacement project involving changes to belt drive and electrical components. The permittee will backfill and seal the old McKinnon Portal that is adjacent to the ROM belt line.

## **TECHNICAL ANALYSIS:**

## **OPERATION PLAN**

## **TOPSOIL AND SUBSOIL**

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

## **Analysis:**

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### Topsoil Removal and Storage

A phone call was made to the permittee about soil and vegetation at the two construction areas. The permittee stated that both construction areas are within the disturbed area and the ground is disturbed. The ground at the sediment pond is growing a small amount of weeds. The soil contains a high percentage of coal fines and gravel. The Division feels that the material is not suitable for saving. The ROM belt is constructed on solid bedrock, therefore, no real amount of soil exist.

#### Findings:

The permittee has met the minimum requirements of the R645 Coal Rules. The Division has determined that the sediment pond construction area soil is not suitable for final reclamation. The soil comprises of mostly gravel and coal fines.

### GETATION

Regulatory Reference: R645-301-330, -301-331, -301-332.

#### Analysis:

The two construction areas have disturbed soil and weeds are the plant life. This was stated by a phone message by the permittee. The vegetation will be removed during construction.

#### Findings:

The permittee has met the minimum requirements for removing vegetation from this area prior to construction.

### 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, -300-148, -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:** **General**

There will be no change to the diversions system for water entering the sediment pond.

### **Siltation Structures: General**

The permittee has designed a siltation catch basin to catch sediment before it enters the sediment pond. This structure is designed to reduce sediment going into the pond. The permittee hopes this will reduce the frequency in sediment pond clean out. This design is P.E. certified.

### **Findings:**

The permittee has met the minimum requirements of the R645 Coal Rules by supplying designs for the siltation catch basin (sediment trap). See Deer Creek Mine design called “Dumpable Sediment Box/Retaining Wall”.

## **SUPPORT FACILITIES AND UTILITY** **INSTALLATIONS**

Regulatory Reference: 30 CFR Sec. 784.30, 817.180, 817.181; R645-301-526.

### **Analysis:**

The permittee has updated the surface facilities map (Drawing DS202E).

The permittee has identified changes to the ROM beltline and siltation traps.

### **Findings:**

The permittee has identified changes to the mine facilities thus meeting 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:**

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**Mining Facilities**  ps

The permittee has updated the surface facilities map (Drawing DS202E).

**Certification Requirements** 

The permittee updated the surface facilities map and is P.E. Certified.

**Findings:**

The permittee updated and certified the surface facilities map. This meets the minimum requirements of the R645 Coal Rules.

## RECLAMATION PLAN

### BACKFILLING AND GRADING

Regulatory Reference: 30 CFR Sec. 785.15, 817.102, 817.107; R645-301-234, -301-537, -301-552, -301-553, -302-230, -302-231, -302-232, -302-233.

**Analysis:**

 **General**

No additional backfilling and grading will be needed for the construction of the sediment trap and beltline modifications.

**Findings:**

The permittee has met the minimum requirements of this section by not increasing the backfilling and grading requirements for reclamation.

**RECOMMENDATIONS:**

The permittee has met the minimum requirements of the R645 Coal Rules. This amendment is recommended for approval.