

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

November 2, 2009

#3413
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TO: Internal File

THRU: Steve Christensen, En Sci II / Hydrology / Team Lead SKC
 James D. Smith, En Sci III / Hydrology / Permit Supervisor / Task Manager JS 11/4/09
 FROM: Peter Hess, En Sci III / Reclamation Specialist III / Engineering PHH by SOS
 RE: ADDITION OF BATHHOUSE TRAILER, Consolidation Coal Company, Emery Deep Mine, C/015/0015, Task ID # 3413

SUMMARY:

The Permittee submitted an application to construct new concrete footers for a sixth trailer / bath house unit at the Emery Deep Mine surface facilities area on October 12, 2009. The volume of concrete in the footers is 6.85 CY (8.9 CY broken). This is a minor revision to the MRP.

TECHNICAL ANALYSIS:**OPERATION PLAN****MINING OPERATIONS AND FACILITIES**

Regulatory Reference: 30 CFR 784.2, 784.11; R645-301-231, -301-526, -301-528.

Analysis:

The Permittee is proposing to add a sixth bath house trailer at the main facilities in order to accommodate additional employees. Two concrete footers will be required to set the trailer. Each footer will be 70 feet in length with a four foot width. A thickness of four inches is necessary. The total poured volume for the two footers is 6.85 CY.

The additional trailer will require electrical and plumbing modifications to the existing system.

A revised Chapter II Page 5, Bathhouses, has been submitted as part of the Task ID # 3413 application. The bathhouses are actually trailer type mobile homes.

The red-line strike text submitted on Page 5 states that the three original bathhouse units utilized 7,000 gallons per day of the approved sewage system capacity, which is 13,500 gallons per day.

The Permittee informed the Division on October 21, 2008 (E-mail communication with Mr. John Gefferth) that the Mine is now on City water and sewage. Therefore, the addition of the additional bathhouse(s) is not a problem.

Findings:

The revised Page 5, Chapter II revision meets the minimum regulatory requirements of the R645 Coal Mining Rules.

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:

Affected Area Maps

Mining Facilities Maps

The Permittee has submitted a revised PLATE II-1, STRUCTURES AND FACILITIES MAIN PORTAL AREA which shows five units identified as #12 BATHHOUSES in the EXISTING FACILITIES KEY.

The approved / incorporated PLATE II-1, STRUCTURES AND FACILITIES MAIN PORTAL AREA (date of incorporation August 14, 2008) shows 3 units identified as bathhouse trailers. Another structure on this PLATE is identified as #32, Sewage Treatment System.

The #32 Sewage Treatment System identification number has been removed from the Task ID # 3413 proposed PLATE II-1. As indicated above, the Mine is now on City water and sewage, therefore the space previously occupied by the sewage treatment plant (as depicted on the approved PLATE II-1) is depicted as a bathhouse trailer location.

The Permittee is proposing to add a sixth bath house trailer at the Mine site. The submitted PLATE II-1 must correctly show all six bath house locations, and the PLATE identification number which identifies the sewage treatment plant must be re-installed on the drawing.

The Permittee may submit this "as-built" drawing showing all six bath house trailers after the new concrete pad is located for bath house trailer #6.

Certification Requirements

The submitted Plate II-1 "As-Built" must be P.E. certified by a Utah registered professional engineer.

Findings:

The PLATE II-1 is deficient for the reasons mentioned above.

This application is a minor revision to the surface facilities map, PLATE II-1.

The Division recommends a conditional approval of this application pending the submittal of an accurate "AS-BUILT" drawing showing all six bath house trailer locations and the return of the sewage plant identification number to the PLATE.

The "AS-BUILT" drawing must be P.E. certified by a Utah registered professional engineer.

RECLAMATION PLAN

BONDING AND INSURANCE REQUIREMENTS

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

Analysis:

General

The Permittee has a surety bond posted with the Division in the amount of \$ 3,510,00.00 (as of December 3, 2008). The bond is secured by Seaboard Surety (#188617). Seaboard Surety has an A.M. Best rating of A+.

Form of Bond

The bond held by the Division to ensure reclamation of the Emery Deep Mine site is a surety bond.

Determination of Bond Amount

The Division has re-calculated the demolition costs for the Emery Deep Mine, adding three additional bath house trailers (now a total of 6 trailers) and adding in the concrete disposal costs for the concrete bases for all six trailers.

The additional demolition cost amounts to an additional \$ 6,000.00.

The Permittee has a posted bond in the amount of \$ 3, 510,000.00

The total, re-calculated reclamation cost for the Mine, including the 3 additional trailers and their footings amounts to an escalated cost figure of \$ 3,077,000.00.

The difference between the cost estimate and the bond is \$ 433,000.

Findings:

The Permittee has sufficient bond in place to cover this minor addition to the surface facilities.

RECOMMENDATION:

Conditional approval is recommended. Upon submittal of the adequate number of clean copies prepared for INCORPORATION, final Approval is recommended.

The Permittee must submit:

- a) The correct number of clean copies of Chapter II, Page 5, prepared for INCORPORATION.
- b) Clean copies of PLATE II-1, "As-Built" STRUCTURES and FACILITIES, MAIN PORTAL AREA meeting the following requirements;
 - 1) correct locations of all six bath house trailers;
 - 2) an identification number for the sewage treatment plant;
 - 3) a P.E. certification by a Utah registered professional engineer.