

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

January 2, 2007

JK

TO: Internal File

THRU: Pamela Grubaugh-Littig, Permit Supervisor *pgl*

FROM: Wayne H. Western, Team Lead *WHW*

RE: Installation of Ventilation Shaft/Blowing Fan, Andalex Resources Inc., Centennial Project, Permit C/007/0019, Task ID #2722

SUMMARY:

On October 25, 2006, the Permittee submitted an amendment for the installation of a ventilation fan and substation. The construction of the facilities is scheduled to occur within the disturbed area. This memo deals with engineering and bonding.

In December 2006, the Permittee submitted additional information.

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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 meet the minimum requirements of this section. The Permittee installed a blowing ventilation fan and substation. The Permittee needs the facilities to increase the airflow to the mine. They show the location of the structures on Plate 6.

Findings:

The information provided in the proposed amendment is considered adequate to meet the requirements of this section.

SPOIL AND WASTE MATERIALS

Regulatory Reference: 30 CFR Sec. 701.5, 784.19, 784.25, 817.71, 817.72, 817.73, 817.74, 817.81, 817.83, 817.84, 817.87, 817.89; R645-100-200, -301-210, -301-211, -301-212, -301-412, -301-512, -301-513, -301-514, -301-521, -301-526, -301-528, -301-535, -301-536, -301-542, -301-553, -301-745, -301-746, -301-747.

Analysis:

Coal Mine Waste

The Permittee met the minimum requirements of this section. The Permittee will place all coal mine waste underground. The requirements for coal mine waste disposal are:

- Minimize effects of leachate: This requirement will be addressed in the hydrology section.
- Ensure mass stability: Because the material is stored underground the material will be stable after placement.
- Ensure revegetation: NA since the material is disposed of underground.
- Not a public hazard: The material will be in an area not accessible by the public.
- Prevent Combustion: The material is noncombustible.

Findings:

The information provided in the proposed amendment is considered adequate to meet the 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 met the requirements of this section by showing the new facilities on Plate 6.

Certification Requirements

The maps were properly certified.

Findings:

The information in the proposed amendment is considered adequate to meet the requirements of this section.

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

The Permittee met the requirements of this section. The Permittee will reclaim the site according to the approved mining and reclamation plan. The Permittee will not change the

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Findings:

The Permittee meet the minimum requirements for this section.

MINE OPENINGS

Regulatory Reference: 30 CFR Sec. 817.13, 817.14, 817.15; R645-301-513, -301-529, -301-551, -301-631, -301-748, -301-765, -301-748.

Analysis:

The Permittee did meet the minimum requirements for this section. The Permittee committed to monitor the shaft area until Phase III bond release is approved.

Findings:

The Permittee meet the minimum requirements for this section.

BONDING AND INSURANCE REQUIREMENTS

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

Analysis:

General

The Permittee submitted the information that enabled the Division determine if the bond amount is adequate to insure reclamation in the event of bond forfeiture. The Division determined that the amount needed to ensure reclamation in the event of bond forfeiture is \$1,164,000 in 2009 dollars. The current bond amount is \$1,211,839. Therefore, the amount of bond is adequate.

Findings:

The information in the proposed amendment is considered adequate to meet the requirements of this section.

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RECOMMENDATIONS:

The Division should approve the amendment.

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