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Technical Analysis and Findings

Utah Coal Regulatory Program

June 14, 2016

PID: C0070013
TaskID: 5191
Mine Name: HORSE CANYON MINE
Title: FAN PAD AS-BUILT MAP

Operation Plan

Support Facilities and Utility Installations

Analysis:

The amendment meets the State of Utah R645 requirements for Support Facilities and Utility Installations.

The amendment meets the requirements of R645-301-521.180 and -526 the require the description, plans, and drawing for each support facility to be constructed, used, or maintained within the proposed permit area. The amendment includes the asbuilt layout of the fan pad on Plate 5-2B.

cparker

Maps Facilities

Analysis:

The amendment meets the State of Utah R645 requirements Mining Facilities Maps.

The amendment meets the requirements of R645-301-521.120 through-521.125 which require maps to clearly show existing surface and subsurface facilities. The amendment included the operational layout of the fan building on Plate 5-2B.

cparker

Maps Certification Requirements

Analysis:

The amendment meets the State of Utah R645-301-512 Certification Requirements.

R645-301-512 requirements are met as all mine drawings and plates are stamped by a Utah certified professional engineer, David Hibbs, with experience in underground mining operations.

cparker

Reclamation Plan

Backfill and Grading General

Analysis:

The amendment meets the State of Utah R645 requirements for Backfill and Grading.

The amendment meets the requirements of R645-301-553 by detailing the required additional general backfill and grading plan. The volumes and plan can be seen on Plate 5-2B (1). The drawing details how the disturbed areas will be backfilled and graded to achieve the approximate original contour, eliminate all highwalls, spoil piles, and depressions, and achieve a postmining slope that does not exceed either the angle of repose or such lesser slope as is necessary to achieve a minimum long term static safety factor of 1.3 and to prevent slides, minimize erosion and water pollution both on and off the site, and support the approved postmining land use.

cparker

Mine Openings

Analysis:

The amendment meets the State of Utah R645 requirements for Mine Openings.

The requirements of R645-301-513.500, R645-301-529, and R645-301-551 are met by detailing the required additional general backfill and grading plan. The volumes and plan can be seen on Plate 5-2B (1). The drawing details how the disturbed areas will be backfilled and graded to achieve the approximate original contour, eliminate all highwalls, spoil piles, and depressions, and achieve a postmining slope that does not exceed either the angle of repose or such lesser slope as is necessary to achieve a minimum long term static safety factor of 1.3 and to prevent slides, minimize erosion and water pollution both on and off the site, and support the approved postmining land use. The total volume available for the south and north breakouts are 1,526 CY and 2,193 CY respectively. Detail 3 on 5-2B(1) shows the required solid concrete block seal per MSHA approval.

cparker

Maps Reclamation BackFilling and Grading

Analysis:

The amendment meets the State of Utah R645 requirements for Reclamation Backfilling and Grading Maps.

The requirements of R645-301-542 are met within the amendment due to information presented on Plate 5-2B (1) detailing the reclamation cut/fill profiles and plan view for the pad area. Additionally, the Permittee failed to address both Items 1 and 2 of Tasks 4818 conditional approval.

The plates detailing the backfill contours so the Division to be able to verify volumes of reclamation for the site. The Permittee was granted conditional approval of fan plan, Task 4818, pending such a figure and updated volume narratives to the MRP.

cparker

Maps Reclamation Final Surface Configuration

Analysis:

The amendment meets the State of Utah R645 requirements for Final Surface Configuration Maps.

The requirements of R645-301-542 are met within the amendment as Plate 5-2B(1) was added to MRP plan to show the reclamation grading contours for the Asbuilt Fan pad area. The application meets R645-301-521 regulations by including a plan/profile views of the backfill and grading at reclamation of the fan area.

cparker

Bonding and Insurance General

Analysis:

The amendment meets the State of Utah R645 requirements for Bonding and Insurance Requirements.

The amendment meets the requirements of R645-301-800 as the applicant is current on the bond and insurance standings and bonding increase was done at the time of the initial amendment, Task 4818.

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