



**State of Utah**  
 DEPARTMENT OF NATURAL RESOURCES  
 DIVISION OF OIL, GAS AND MINING

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August 13, 2002

TO: Internal File

FROM: Dana Dean, P.E., Reclamation Specialist II 

RE: Fan Addition, Co-Op Mining Company, Bear Canyon Mine, C/015/025-AM02H

**SUMMARY:**

The Division received a proposal on July 29, 2002 to add a fan at the Bear Canyon Mine. The #1 Mine is currently at the legal limit for airflow and in danger of dropping below the limit in violation of 30CFR, Part 75, Subpart D, Section 75.325. The new fan will work as an auxiliary to the existing Bear Canyon #1 Mine fan and will be located near that existing fan.

Information found in the proposal is considered adequate to meet the minimum requirements of the regulations.

The amendment should be approved and incorporated into the current 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:**

**Facilities and Structures**

The proposed structure will consist of a portable fan, fan enclosure and explosion doors. The new fan is an auxiliary to the existing Bear Canyon #1 Mine fan. The new fan will be located near the existing fan and the location is shown on Plate 2-4C.

TECHNICAL MEMO

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**Findings:**

Information provided in the application is adequate to meet the minimum Mining Operations and Facilities requirements of the regulations.

**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:**

**Sediment control measures**

Since the proposed structure will lie within the existing disturbed area, all runoff will be directed to a sediment pond through existing diversions.

**Findings:**

Information provided in the application is adequate to meet the minimum Hydrologic Information requirements of the regulations.

**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 location of the new fan in relation to the disturbed area boundary and other structures is shown on Plate 2-4C, Surface Facilities. The map has been certified by a registered professional engineer.

**Findings:**

Information provided in the application is adequate to meet the minimum Maps, Plans and Cross Sections of Mining Operations requirements of the regulations.

## RECLAMATION PLAN

### BONDING AND INSURANCE REQUIREMENTS

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

#### **Analysis:**

The application includes a bond estimate for the reclamation of the proposed fan, calculated by Co-Op Mining Company. The estimated cost of reclamation is \$5,080 for 4 fans on-site, around \$1,270 for the proposed fan. The present bond for the Bear Canyon Mine is \$1,825,000, which includes a 5% contingency of \$63,242. Since the estimated cost for reclamation of this facility represents less than 3% of the contingency and less than 1% of the total posted bond, the existing bond should be adequate.

#### **Findings:**

Information provided in the application is adequate to meet the minimum Bonding and Insurance Requirements section of the regulations.

#### **RECOMMENDATIONS:**

It is recommended that this application be approved and incorporated into the MRP.