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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

November 1, 2001

TO: Internal Files

FROM: Karl R. Houskeeper, Reclamation Specialist, Team Lead

RE: Stream Alteration for WHR Belt Towers, Co-Op Mining Company, Bear Canyon Mine, C/015/025-01C

*KRH  
by  
SM*

**SUMMARY:**

On October 29, 2001, the Division received amendment (AM01C) submitted by Co-Op Mining, Bear Canyon Mine relative to the Stream Alteration for Wild Horse Ridge Belt Towers. The amendment material submitted contained an approved stream alteration permit dated August 28, 2001 for stream channel 01-93-07SA. The stream alteration permit was approved by the Division of Water Rights under General Permit 040 issued to the State of Utah by the U.S. Army Corps of Engineers on October 15, 1987. Plates 2-4G and 3-2G were submitted with actual on-site conditions (revised contours and actual tower locations). Plates 3-7G, 7-1G, and 8-5G need to be revised and submitted with the same changes that were made on Plates 2-4G and 3-2G.

Issues regarding soils, revegetation, bonding and reclamation have already been addressed in the Wild Horse Ridge Significant Revision approved on July 3, 2001 by the Division.

**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**MINING OPERATIONS AND FACILITIES**

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

**Analysis:**

**TECHNICAL MEMO**

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**Facilities and Structures**

Plates 2-4G and 3-2G have been revised to indicate the corrected contours and the proper placement of Belt 3, Tower 5; and Belt 4, Tower 3. The amendment indicated that these same changes will be updated on Plates 3-7G, 7-1G, and 8-5G and submitted to the Division upon approval of AM01C.

**Findings:**

Plates 3-7G, 7-1G, and 8-5G need to be revised to indicate the same changes noted on Plates 2-4G and 3-2G and submitted to the Division.

**TOPSOIL AND SUBSOIL**

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

**Analysis:**

**Removal and Storage**

Topsoil removal and storage has been discussed in the MRP.

**Findings:**

Issues regarding soils have already been addressed in the Wild Horse Ridge Significant Revision approved on July 3, 2001 by the Division

**VEGETATION**

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

**Analysis:**

The type of vegetation used around the towers has been discussed in the MRP.

**Findings:**

Issues regarding revegetation have already been addressed in the Wild Horse Ridge Significant Revision approved on July 3, 2001 by the Division.

## 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

Plates 2-4G and 3-2G have been revised to indicate the corrected contours and the proper placement of Belt 3, Tower 5 and Belt 4, Tower 3. The amendment indicated that these same changes will be updated on Plates 3-7G, 7-1G, and 8-5G and submitted to the Division upon approval of AM01C.

### Findings:

Plates 3-7G, 7-1G and 8-5G need to be revised to indicate the same changes noted on Plates 2-4G and 3-2G and submitted to the Division. All other applicable Plates have already been addressed in the Wild Horse Ridge Significant Revision approved July 3, 2001 by the Division.

## RECLAMATION PLAN

### GENERAL REQUIREMENTS

Regulatory Reference: PL 95-87 Sec. 515 and 516; 30 CFR Sec. 784.13, 784.14, 784.15, 784.16, 784.17, 784.18, 784.19, 784.20, 784.21, 784.22, 784.23, 784.24, 784.25, 784.26; R645-301-231, -301-233, -301-322, -301-323, -301-331, -301-333, -301-341, -301-342, -301-411, -301-412, -301-422, -301-512, -301-513, -301-521, -301-522, -301-525, -301-526, -301-527, -301-528, -301-529, -301-531, -301-533, -301-534, -301-536, -301-537, -301-542, -301-623, -301-624, -301-625, -301-626, -301-631, -301-632, -301-731, -301-723, -301-724, -301-725, -301-726, -301-728, -301-729, -301-731, -301-732, -301-733, -301-746, -301-764, -301-830.

### Analysis:

The removal of the towers, placement of topsoil and revegetation of the area has been addressed in the approved MRP.

### Findings:

Issues regarding soils, revegetation, bonding and reclamation have already been addressed in the Wild Horse Ridge Significant Revision approved on July 3, 2001 by the Division.

TECHNICAL MEMO

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**RECOMMENDATIONS:**

With the incorporation of the stream alteration permit into the MRP and the revision of Plates 2-4G and 3-2G it is recommended that AM01C Stream Alteration for Wild Horse Ridge Belt Towers be approved, conditional upon the submittal of revised Plates 3-7G, 7-1G, and 8-5G. These plates need the same revisions on them as Plates 2-4G and 3-2G that were included in the submittal of AM01C.

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TECHNICAL MEMO

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