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PO Box 310  
Huntington, Utah 84528

September 20, 2001

Utah Coal Program  
Utah Division of Oil, Gas, and Mining  
1594 West North Temple, Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

*New Amendment*  
*Incoming*  
*C/015/018 - AMOIH*

Attn: Daron Haddock, Permit Supervisor

**Re: Amendment to Revise Part 4, Volume 2 of the Deer Creek MRP, PacifiCorp, Deer Creek Mine, C/015/018, Emery County, Utah**

PacifiCorp, by and through its wholly-owned subsidiary, Energy West Mining Company ("Energy West") as mine operator, hereby submits an amendment to change the text in Part 4, Volume 2, page 4-1.

The current sealing plan for the Deer Creek Mine states "It is planned to construct permanent double-block seals ...". As mine sealing technology improves, the industry must adapt to the new construction practices available. Energy West has obtained approval from Mine Safety and Health Administration (MSHA) to add pour-in-place and packsetter seals in the underground mine ventilation plan (refer to pages from the approved MSHA plan for a description of the seals).

Energy West proposes to amend the above stated MRP text to "It is planned to construct MSHA approved seals with at least 25 feet of non-combustible material compacted to form an earthen plug." This change in the text will allow newer seal technology to be used without any future amendments to the MRP.

Attached is four (4) highlighted copies of page 4-1, Part 4, Volume 2 (one (1) copy sent to PFO). Also included is seven (7) clean copies of this page. Please stamp "Approved" so the changes can be incorporated into the Deer Creek MRP. Required C1/C2 forms are also attached. If you have any questions concerning the requested amendment, please contact myself at (435) 687-4720 or Dennis Oakley at (435) 687-4825.

Sincerely,  
  
Chuck Semborski  
Geology/Permitting Supervisor

Attachments: Approved MSHA seal descriptions  
C1/C2 Forms  
Four (4) highlighted version of page 4-1  
Seven (7) clean copies of

cc: Carl Pollastro  
File

**RECEIVED**

SEP 24 2001

DIVISION OF  
OIL, GAS AND MINING

Huntington Office:  
(435) 687-9821  
Fax (435) 687-2695  
Purchasing Fax (435) 687-9092

Deer Creek Mine:  
(435) 687-2317  
Fax (435) 687-2285

Trail Mountain Mine:  
(435) 748-2140  
Fax (435) 748-5125

## TYPICAL WOODEN SEAL

Typically used in areas where weight is or may cause pressure on the seal. Nominal 6" x 6" x 36" solid blocks, cap pieces, wedges, rock dust, mortar, MSHA accepted fire retardant and/or sealant. Solid blocks laid parallel to the entry. Packed in rock dust or mortar. All timbers nailed to adjacent timbers with minimum 20d nails with two (2) nails per timber minimum. Front side of seal covered with chicken wire or other similar type wire and coated with MSHA accepted sealant on both sides of seal. Top wedged to secure seal. Hitching will be standard or optional. Seals built in entries or crosscuts that are cut over eight (8) feet in height and over twenty (20) feet in width must have a substantial pilaster.

## OMEGA SEAL

Seal constructed with minimum 8" x 16" x 24" solid Omega blocks using wet-bed construction between all joints. Exposed joint seams on the inby face will be coated as high as possible. Joints will be coated with minimum eight (8) inch wide by 1/4 inch thick Burrell Bond or equivalent sealant. Minimum thickness of seal shall be 24" with and minimum pilaster thickness of 56" and minimum pilaster width of 72". Blocks will be interlocked and wedged at the roof (6" to 1' from top) to secure the seal. Hitching standard or optional

## POUR-IN-PLACE SEALS

Seal to be poured in place between two bulkheads. Minimum thickness of four (4) feet or 1/2 the height (whichever is greater). Tek-Foam or equivalent (200 psi minimum). Area shall be cleared of water prior to building seal. There shall be at least three injection ports near the top of seal. Framing material will be left in place on both sides or if removed an initial coat of an MSHA accepted sealant will be applied to the affected side. Seals will be constructed following manufacturers recommendations. No hitching required. A minimum of 9 representative compressive strength samples shall be taken and tested by an independent laboratory after a 28-day cure. The mean of samples must be at least 200 psi, minimum values must be greater than 100 psi, and the lower confidence level for the mean (80% confidence limit) must be greater than 150 psi.

## PROCEDURES APPLICABLE TO SEALS DESCRIBED ABOVE

1. Area (ribs and floor) must be cleared of loose materials before seal construction.
2. The following hitching requirements are applicable to wooden and Omega seals. Seals must be hitched into floor and ribs using one of the following procedures:

**STANDARD:** Hitched into floor and ribs a minimum of four (4) inches.

**OPTIONAL:** The following procedures may be used in lieu of hitched into the mine floor and/or ribs for all seals requiring hitching (including solid block seals): (1). Minimum 6"x 6" x 1/2" angle iron bolted to floor on both sides of seal. (2). Angle iron secured on maximum 18" centers with high-strength, top-threaded, fully grouted rods with nuts torqued down. (3). Rods: Minimum 18" length - 1" minimum diameter.

3. All seals must comply with 30 CFR 75.335(b), and (c). Sampling pipe with valve and water drain pipe with trap. If plastic "P" trap is used the bottom must be blocked and joints screwed and/or glued with a minimum 6" vertical extension.
4. Seals shall be set back a minimum of ten (10) feet from corner of the outby intersection.

### SECTION 12 - SEALS

Deer Creek Mine 42-00121

Sketch: N/A

Scale: N/A

Page: 11.0

## PACKSETTER SEALS

- Materials:** Solid tongue-and-groove concrete blocks, MSHA approved general purpose sealant, Packsetter Bags and grout, mortar, MSHA approved sealant.
- Dimensions:** Seal thickness shall be a minimum of sixteen (16) inches.
- Construction:** Lay blocks in a transverse pattern with mortar between all joints using cross-coursed solid tongue-and-groove concrete blocks in rows where the tongue-and-groove engage, and solid smooth block in rows where tongue-and-groove would not engage. Place Packsetter bags around the perimeter of the seal wall with bags centered on the seal wall and, overlapped a minimum of six (6) inches on each bag and under the lower corners of the seal wall. A minimum spacing of two (2) inches, and no greater than eight (8) inches, will be left between the seal wall, roof, and ribs for installation of Packsetter bags. Using Packsetter grout, pump Packsetter bags to a minimum of 250 KPA and a maximum of 300 KPA, (as per the manufacturer's pumping sequence diagram, as read on the line pressure gage on the hose of the Packsetter grout pump).
- Pilaster:** Seals up to 10 feet in height shall be constructed with one pilaster measuring at least sixteen (16) inches by thirty-two (32) inches located near the middle of the seal. Seals over ten (10) feet in height up to twelve (12) feet in height shall be constructed with two pilasters measuring at least sixteen (16) inches by thirty-two (32) inches, each spaced approximately equal distances from the center. For seals over twelve (12) feet in height, a site-specific construction plan shall be submitted.
- Hitching:** None required.
- Sealant:** Seal both sides of seal with an MSHA approved general-purpose sealant.

### PROCEDURES APPLICABLE TO SEALS DESCRIBED IN SECTION 12

1. Area (ribs and floor) must be cleared of loose materials before seal construction.
2. The following hitching requirements are applicable to wooden and Omega seals. Seals must be hitched into floor and ribs using one of the following procedures:
 

**STANDARD:** Hitched into floor and ribs a minimum of four (4) inches.

**OPTIONAL:** The following procedures may be used in lieu of hitched into the mine floor and/or ribs for all seals requiring hitching (including solid block seals):

  - (1). Minimum 6" x 6" x 1/2" angle iron bolted to floor on both sides of seal.
  - (2). Angle iron secured on maximum 18" centers with high-strength, top-threaded, fully grouted rods with nuts torqued down.
  - (3). Rods: Minimum 18" length - 1" minimum diameter.
3. All seals must comply with 30 CFR 75.335(b) and (c). Sampling pipe with valve and water drain pipe with trap. If plastic "P" trap is used the bottom must be blocked and joints screwed and/or glued with a minimum 6" vertical extension.
4. Seals (initial installation) shall be set back a minimum of ten (10) feet from corner of the outby intersection.
5. Versa Foam or similar product may be applied to seal to help prevent leakage.

#### SECTION 12 - SEALS

Deer Creek Mine 42-00121

Sketch: N/A

Scale: N/A

Page: 11.1

# APPLICATION FOR PERMIT PROCESSING

<input checked="" type="checkbox"/> Permit Change	<input type="checkbox"/> New Permit	<input type="checkbox"/> Renewal	<input type="checkbox"/> Transfer	<input type="checkbox"/> Exploration	<input type="checkbox"/> Bond Release	Permit Number: <b>ACT/015/018</b>
Title of Proposal: <b>Amendment to Revise Part 4, Volume 2 of the Deer Creek MRP,</b>						Mine: <b>Deer Creek Mine</b>
<b>PacifiCorp, Deer Creek Mine, C/015/018, Emery County, Utah</b>						Permittee: <b>PacifiCorp</b>

Description, include reason for application and timing required to implement:

**Instructions:** If you answer yes to any of the first 8 questions (gray), this may be a Significant Revision and require Public Notice. Any questions, please call a Permit Supervisor.

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Change in the size of the Permit Area? _____ acres Disturbed Area? _____ acres <input type="checkbox"/> increase <input type="checkbox"/> decrease.
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	2. Is the application submitted as a result of a Division Order? DO # _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	3. Does application include operations outside a previously identified Cumulative Hydrologic Impact Area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	4. Does application include operations in hydrologic basins other than as currently approved?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	5. Does application result from cancellation, reduction or increase of insurance or reclamation bond?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	6. Does the application require or include public notice/publication?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	7. Does the application require or include ownership, control, right-of-entry, or compliance information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	9. Is the application submitted as a result of a Violation? NOV # _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	10. Is the application submitted as a result of other laws or regulations or policies? Explain: _____
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	11. Does the application affect the surface landowner or change the post mining land use?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2?)
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	13. Does the application require or include collection and reporting of any baseline information?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	15. Does application require or include soil removal, storage or placement?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	16. Does the application require or include vegetation monitoring, removal or revegetation activities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	17. Does the application require or include construction, modification, or removal of surface facilities?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	18. Does the application require or include water monitoring, sediment or drainage control measures?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	19. Does the application require or include certified designs, maps, or calculations?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	20. Does the application require or include subsidence control or monitoring?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	21. Have reclamation costs for bonding been provided for?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	22. Does application involve a perennial stream, a stream buffer zone or discharges to a stream?
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	23. Does the application affect permits issued by other agencies or permits issued to other entities?

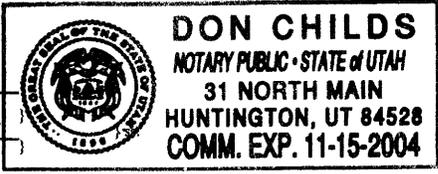
Attach 7 complete copies of the application.

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations herein.

Charles A. Semborski Charles A. Semborski Geology/Permitting Supervisor 9/20/01  
Signed - Name - Position - Date

Subscribed and sworn to before me this 20th day of SEPTEMBER, 2001.

[Signature]  
Notary Public  
My Commission Expires: 11/15, 2001  
Attest: STATE OF UTAH  
COUNTY OF EMERY



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Received by Oil, Gas & Mining

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