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PACIFICORP
POWER SUPPLY

July 20, 1994

RECEIVED
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DIV. OF OIL, GAS & MINING

Utah Coal Regulatory Program
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

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Attention Pamela Grubaugh Littig

Re: REQUEST FOR AN AMENDMENT TO CONSTRUCT A OVERLAND CONNECTION CONVEYOR, CONVEYOR BELT PORTAL AND DIESEL ACCESS PORTAL, PACIFICORP, COTTONWOOD MINE, ACT/015/019, EMERY COUNTY, UTAH.

#2 Copy PAM

Pacificorp requests that an amendment be granted to allow the construction of: a Overland Connection Conveyor that spans from the Trail Mountain Mine to the Cottonwood Mine, a Conveyor Belt Portal and a Diesel Access Portal.

The conveyor system will allow coal to be transported from Trail Mountain Mine across Cottonwood Canyon to the Cottonwood Mine, via the Conveyor Portal. The coal will then be carried by an underground conveyor to the surface coal handling facilities at the Cottonwood Mine, from which it is trucked to the Hunter Power Plant.

The Diesel Access Portal will allow underground travel between the Cottonwood and Trail Mountain Mines. Underground travel will surface and cross Emery County Road 00506, that provides access to Cottonwood Canyon and the Trail Mountain Mine. Emery County has been contacted with respect to the road crossing.

Excavated soil from the portal areas is soil that is a combination of already stockpiled subsoil that is scheduled for final reclamation of the Cottonwood Fan Portal site and native soil under the subsoil pile. For quantities of native excavated soil from the portals construction refer to the enclosed construction drawings.

Surface drainage from the Conveyor Pad and Diesel Pad will require the addition of two BTCA areas. The Diesel Pad will be constructed of concrete with a concrete curb. All surface drainage will be directed and treated through a silt fence before entering a eighteen inch (18") corrugated metal pipe (cmp) that will be placed under the concrete pad to allow surface flow from the existing road ditch to continue. The Conveyor Pad

will be constructed of dirt and gravel with a dirt berm. All surface drainage will be directed and treated through a silt fence before entering a six inch (6") corrugated metal pipe (cmp) which will direct the flow down the slope from the pad and into an existing thirty-six inch (36") undisturbed inlet. Calculation sheets for the eighteen inch (18") and six inch (6") cmp are enclosed for your review.

This project will necessitate the modification of both the Trail Mountain and cottonwood permits, therefore the reclamation cost of the Overland Connection Conveyor has been broken at the boundary of the two permits. Reclamation costs associated with the Cottonwood permit for the Overland Connection Conveyor, Diesel Access Portal and Conveyor Portal are as follows:

OVERLAND CONNECTION CONVEYOR

LABOR				EQUIPMENT			
MANPOWER	MAN/SHIFT	COST/ MAN/SHIFT	COST	TYPE	SHIFT/COST	COST	TOTAL COST
OVERLAND CONNECTION CONVEYOR (TUBE REMOVAL)							
OPERATOR	2/2	$168	$672				$672
LABORER	3/2	$163	$978				$978
FOREMAN	1/2	$182	$364				$364
				80 TON CRANE	1.5/$1,144	$1,716	$1,716
				25 TON CRANE	2/$394	$788	$788
				UTILITY TRUCK	2/$93	$186	$186
				TRACTOR/ FLATBED	2/$344	$688	$688
						SUBTOTAL	$5,392.00
OVERLAND CONNECTION CONVEYOR (SUPPORTS & FOOTERS)							
OPERATOR	3/.5	$168	$252				$252
LABORER	1/.5	$163	$81				$81
				245 HYD. EXCAVATOR	.5/$750	$375	$375
				10 YD. DUMP TRUCK	1/$300	$300	$300
				UTILITY TRUCK	.5/$93	$46	$46
						SUBTOTAL	$1,054.00

DIESEL PORTAL

LABOR				EQUIPMENT			
MANPOWER	MAN/SHIFT	COST/ MAN/SHIFT	COST	TYPE	SHIFT/COST	COST	TOTAL COST
DIESEL ACCESS PORTAL, APPROACH PAD, LINER, COLLAR & PAD							
OPERATOR	2/1	$168	$336				$336
LABORER	2/1	$163	$326				$326
				245 HYD. EXCAVATOR	1/$750	$750	$750
				10 YD. DUMP TRUCK	1/$300	$300	$300
				UTILITY TRUCK	1/$93	$93	$93
						SUBTOTAL ☞	$1,805.00
DIESEL ACCESS PORTAL, SEALING							
OPERATOR	3/1	$168	$504				$504
LABORER	2/1	$163	$326				$326
				FLATBED TRUCK	1/$344	$344	$344
				D3 DOZER	1/$226	$226	$226
				10 YD. DUMP TRUCK	1/$300	$300	$300
				MATERIALS		$1060	$1,700.00
						SUBTOTAL ☞	$3,400.00

CONVEYOR PORTAL

LABOR				EQUIPMENT			
MANPOWER	MAN/SHIFT	COST/ MAN/SHIFT	COST	TYPE	SHIFT/COST	COST	TOTAL COST
CONVEYOR PORTAL LINER, COLLAR LINER, COLLAR & TUBE FOUNDATION							
OPERATOR	3/1	$168	$504				$504
LABORER	3/1	$163	$489				$489
				245 HYD. EXCAVATOR	1/$750	$750	$750
				10 YD. DUMP TRUCK	2/$300	$600	$600
				UTILITY TRUCK	1/$93	$93	$93
						SUBTOTAL	$2,436.00
CONVEYOR PORTAL, SEALING							
OPERATOR	3/1	$168	$504				$504
LABORER	2/1	$163	$326				$326
				FLATBED TRUCK	1/$344	$344	$344
				D3 DOZER	1/$226	$226	$226
				10 YD. DUMP TRUCK	1/$300	$300	$300
				MATERIALS		$1060	$1,700.00
						SUBTOTAL	$3,400.00

RECLAMATION EARTHWORK AND REVEGETATION

LABOR				EQUIPMENT / MATERIAL			
MANPOWER	MANSHIFT	COST/ MANSHIFT	COST	TYPE	SHIFT/COST	COST	TOTAL COST
RECLAMATION EARTHWORK **QUANTITY = 990 CU. YDS.** **MACHINE EFFICIENCY @ 70 CU. YDS. PER HOUR** **990 CU. YDS / 70 CU. YDS. PER HOUR = 14.1 HOURS** **14.1 HOURS / 8 HOURS PER SHIFT** **1.762 SHIFTS**							
OPERATOR	3/1.762	$168	$888				$888
				245 HYD. EXCAVATOR	1.762/750	$1,321	$1,321
				D3 DOZER	1.762/$226	$398	$398
				TRACK LOADER	1.762/$277	$488	$488
						SUBTOTAL ☞	$3,095.00
REVEGETATION							
LABORER (SURFACE) (PREP)	4/.75	$163	$489				$489
LABORER (FERTILIZE)	2/.375	$163	$122	FERTILIZER	1.5 ACRES @ $79.50 ACRE	$119	$241
LABORER (MULCH)	2/.375	$163	$122	MULCH	1.5 ACRES @ $500 ACRE	$750	$872
LABORER (SEEDING)	2/.375	$163	$122	SEED	24LB/1.5ACRE @ $15 PER LB	$540	$662
						SUBTOTAL ☞	$2,264.00
						TOTAL ☞	**$22,846**

The reclamation bond is currently $2,071,098. The addition of the Overland Connection Conveyor, Conveyor Portal and Diesel Access Portal brings the reclamation costs to $1,475,998. Therefore the bond is sufficient to cover the current addition.

All of the proposed modifications and additions are within the existing disturbed area boundary. The area has been evaluated relative to soils, vegetation and hydrology. This information is enclosed for your review.

Please find enclosed for your review three (3) copies of the construction drawings for the Overland Connection Conveyor found in the Trail Mountain amendment submittal.

Please remove Appendix III Groundwater Hydrology. Information contained in Appendix III Groundwater Hydrology is currently found in volume 9 of the MRP. Replace Appendix III Groundwater Hydrology with Cottonwood/Trail Mountain Overland Tube Conveyor Reclamation Cross Sections, Vegetation and Soils of the Cottonwood/Trail Mountain Portal Area and Culvert Size Calculations.

Please find enclosed for inclusion in the MRP three (3) copies of; revised page 3-20.1, added page 3-20.2, revised page 3-56, revised page 4-30, revised page 4-31, revised page 4-32, revised page Reclamation Cost Description Items 12-A through 14-B, added page Reclamation Cost Description Item 15 and Reclamation Cost Summary, revised page of TOC listing Appendices, added Vegetation & Soils of the Cottonwood/Trail Mountain Portal Area to Appendix III, added calculation sheets for Diesel Access Pad eighteen inch (18") culvert to Appendix III, added calculation sheets for Conveyor Pad six inch (6") culvert to Appendix III.

Upon completion of construction the Conveyor Portal, Diesel Access Portal and Overland Connection Conveyor structure and alignment will be surveyed and a Surface Facilities Map will be generated and three (3) copies will be submitted to the Division. At this time the reclamation cross sections referred to above will be checked and finalized and three (3) copies will be submitted for inclusion into Appendix III of the MRP. The proposed cross sections are shown in the construction drawings that are enclosed.

Applicable reclamation seed mixes listed in Part 4 of the MRP will also be utilized on the Belt and Diesel Portal areas.

Your help is greatly appreciated. If you have any questions please feel free to contact, Karl Houskeeper or myself at 653-2312

Sincerely,

Val Payne
Sr. Environmental Engineer

KRH\krh

enclosure(s)

cc:	**Morgan Moon**	**(w/o enclosures)**
	John Christensen	**(w/o enclosures)**
	J. Blake Webster	**(w/o enclosures)**