

PERMIT CHANGE TRACKING FORM

DATE RECEIVED	3/14/94	PERMIT NUMBER	015/009
Title of Proposal:	Relocate Water Treatment	PERMIT CHANGE #	94A
Description:	Plan, RDM, Inspect & Supply Electrical Quality	PERMITTEE	Pacific
		MINE NAME	Trail Mtn

(Already disturbed)

<input type="checkbox"/> 15 DAY INITIAL RESPONSE TO PERMIT CHANGE APPLICATION	DATE DUE	DATE DONE	RESULT
<input type="checkbox"/> Notice of Review Status of proposed permit change sent to the Permittee.			<input type="checkbox"/> ACCEPTED <input type="checkbox"/> REJECTED
<input type="checkbox"/> Request additional review copies prior to Division/Other Agency review.			Permit Change Classification
<input type="checkbox"/> Notice of Approval of Publication. (If change is a Significant Revision.)			<input type="checkbox"/> Significant Permit Revision
<input type="checkbox"/> Notice of request to modify proposed permit change prior to approval.			<input type="checkbox"/> Permit Amendment
			<input type="checkbox"/> Incidental Boundary Change

REVIEW TRACKING	INITIAL REVIEW		MODIFIED REVIEW		FINAL REVIEW AND FINDINGS	
DOGMR REVIEWER	DUE	DONE	DUE	DONE	DUE	DONE
<input type="checkbox"/> Administrative						
<input type="checkbox"/> Biology						
<input checked="" type="checkbox"/> Engineering <i>CHECK WITH Hydro JK</i>	4/22					
<input type="checkbox"/> Geology						
<input type="checkbox"/> Soils						
<input type="checkbox"/> Hydrology						
<input checked="" type="checkbox"/> Bonding <i>JK</i>	4/22					
<input checked="" type="checkbox"/> AVS Check <i>Joe</i>						

COORDINATED REVIEWS	DUE	DONE	DUE	DONE	DUE	DONE
<input checked="" type="checkbox"/> OSMRE <i>(2)</i>						
<input checked="" type="checkbox"/> US Forest Service <i>(2)</i>						
<input checked="" type="checkbox"/> Bureau of Land Management						
<input type="checkbox"/> US Fish and Wildlife Service						
<input type="checkbox"/> US National Parks Service						
<input checked="" type="checkbox"/> UT Environmental Quality						
<input type="checkbox"/> UT Water Resources						
<input type="checkbox"/> UT Water Rights						
<input type="checkbox"/> UT Wildlife Resources						
<input type="checkbox"/> UT State History						
<input checked="" type="checkbox"/> Other <i>PEO</i>						

<input type="checkbox"/> Public Notice/Comment/Hearing Complete (If the permit change is a Significant Revision)	<input checked="" type="checkbox"/> Permit Change Approval Form signed and approved effective as of this date. <input type="checkbox"/> Permit Change Denied.	4/00
<input type="checkbox"/> Copies of permit change marked and ready for MRP.	<input type="checkbox"/> Notice of <input type="checkbox"/> Approval <input type="checkbox"/> Denial to Permittee.	
<input type="checkbox"/> Special Conditions/Stipulations written for approval.	<input type="checkbox"/> Copy of Approved Permit Change to File.	
<input type="checkbox"/> TA and CHIA modified as required.	<input type="checkbox"/> Copy of Approved Permit Change to Permittee.	
<input type="checkbox"/> Permit Change Approval Form ready for approval.	<input type="checkbox"/> Copies to Other Agencies and Price Field Office.	

APPLICATION FOR PERMIT CHANGE

Title of Change: **Amendment to relocate; Water Treatment Plant, ROM Transfer and Tipple Electrical Facility**

Permit Number: **ACT / 015 / 009**
 Mine: **Trail Mountain**
 Permittee: **PacifiCorp**

Description, include reason for change and timing required to implement: **Facility upgrade and improvement. Needs to be permitted, constructed and on line by July 15, 1994.**

- Yes No 1. Change in the size of the Permit Area? _____ acres increase decrease.
- Yes No 2. Change in the size of the Disturbed Area? _____ acres increase decrease.
- Yes No 3. Will permit change include operations outside the Cumulative Hydrologic Impact Area?
- Yes No 4. Will permit change include operations in hydrologic basins other than currently approved?
- Yes No 5. Does permit change result from cancellation, reduction or increase of insurance or reclamation bond?
- Yes No 6. Does permit change require or include public notice publication?
- Yes No 7. Permit change as a result of a Violation? Violation # _____
- Yes No 8. Permit change as a result of a Division Order? D.O.# _____
- Yes No 9. Permit change as a result of other laws or regulations? Explain: _____
- Yes No 10. Does permit change require or include ownership, control, right-of-entry, or compliance information?
- Yes No 11. Does the permit change affect the surface landowner or change the post mining land use?
- Yes No 12. Does permit change require or include collection and reporting of any baseline information?
- Yes No 13. Could the permit change have any effect on wildlife or vegetation outside the current disturbed area?
- Yes No 14. Does permit change require or include soil removal, storage or placement? **Remove subsoil @ toe of electrical bldg. and place behind wall after const.**
- Yes No 15. Does permit change require or include vegetation monitoring, removal or revegetation activities?
- Yes No 16. Does permit change require or include construction, modification, or removal of surface facilities?
- Yes No 17. Does permit change require or include water monitoring, sediment or drainage control measures?
- Yes No 18. Does permit change require or include certified designs, maps, or calculations?
- Yes No 19. Does permit change require or include underground design or mine sequence and timing?
- Yes No 20. Does permit change require or include subsidence control or monitoring?
- Yes No 21. Have reclamation costs for bonding been provided or revised for any change in the reclamation plan?
- Yes No 22. Is permit change within 100 feet of a public road or perennial stream or 500 feet of an occupied dwelling?
- Yes No 23. Is this permit change coal exploration activity inside outside of the permit area?

Attach 3 complete copies of proposed permit change as it would be incorporated into the Mining and Reclamation Plan.

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.

Val E. ... SR. ENVIRONMENTAL ENGINEER 3/10/94
 Signed - Name - Position - Date

Subscribed and sworn to before me this 10th day of March, 19 94
Sally M. ...
 Notary Public
 My Commission Expires: November 19, 19 96
 Attest: STATE OF _____ COUNTY OF _____

NOTARY PUBLIC
SHELBY M. HUR
 15 North Main St.
 Huntington, Utah 8452
 My Commission Expires
 November 19, 1996
STATE OF UTAH

Received by Oil, Gas & Mining
MAR 14 1994
 OIL, GAS & MINING
 ASSIGNED PERMIT CHANGE NUMBER



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

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

April 15, 1994

TO: File

FROM: Jess Kelley, Reclamation Engineer *JK*

RE: Amendment to Relocate Water Treatment Plant, ROM Transfer, and Tipple Electrical Facility and to Update Reclamation Cost Estimate, PacifiCorp, Trail Mountain Mine, ACT/015/009-94A, Folder #2, Emery County, Utah

SYNOPSIS

The permittee submitted this amendment for Division approval on March 14, 1994. By this amendment, the permittee proposes to 1) relocate several surface facilities, and 2) update the reclamation cost estimate to include these reclamation costs as well as those associated with several amendments from the past year.

ANALYSIS

This amendment involves the relocation of three surface facilities: the water treatment plant, the ROM transfer, and the tipple electrical facility (substation). The water treatment plant will be moved from the parking area to the pumphouse/water tank area, the ROM transfer will be moved only a few feet and enlarged, and the tipple electrical facility will be moved from the upper bench to the crusher bench and enclosed in a new building.

The reclamation costs associated with the water treatment plant, the ROM transfer, and the tipple substation have been revised and included in the overall reclamation cost estimate. The reclamation costs associated with the loading dock, the pumphouse/water tank complex, and the 1993 exploratory drilling program, which have been approved in the past as separate amendments, have also been included in the overall reclamation cost estimate. The reclamation costs associated with the surface facilities add \$6220 to the overall cost estimate, while the reclamation costs associated with the 1993 exploratory drilling program add \$144,266. Altogether, these added reclamation costs raise the overall cost from \$750,628 to



ACT/015/009-94A
April 15, 1994
Page 2

\$908,594, in 1994 dollars. Since the current reclamation bond is for \$1 million, no revision of the bond is necessary.

This amendment makes no changes in the hydrology. The relocations and modifications will all be within the present disturbed area and all will continue to drain to the same large main diversion.

This amendment meets the applicable requirements of the R645 rules.

RECOMMENDATIONS

It is recommended that this amendment be approved and included as part of the approved plan.

CC: Daron Haddock
Pamela Grubaugh-Littig

OPERATION AND RECLAMATION PLAN

3.1 SCOPE

Chapter 3 sets out all the plans that Beaver Creek Coal Company intends to undertake during the permit term and life of the operation. The chapter is divided into five sections: surface facilities, operation plan, environmental protection, reclamation plan, and bibliography.

3.2 SURFACE FACILITIES

The Trail Mountain Mine is an existing operation. Started in the 1940's, it has been in operation as presently designed for the last 12 years. All needed surface facilities are in place under an approved mining and reclamation plan ACT/015/009.

3.2.1 SITE SELECTION AND PREPARATION

The mine site was selected for its location. Access to the coal seam is facilitated by the intersection at the mine site of the coal outcrop and the canyon floor.

Site preparation consisted of clearing the site, construction of pads and facilities, and development of portals.

3.2.2 PORTALS

Five portals provide access to the Trail Mountain Mine. One portal located on the corner of the outcrop of Cottonwood Canyon and a small side-drainage canyon is a fan portal. The second portal, approximately 150 feet south of the fan portal, is the main

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Trail Mountain Mine**

canyon is a fan portal. The second portal, approximately 150 feet south of the fan portal, is the main intake and travel portal. The third portal is the belt portal. It is located just to the south of the main portal. The fourth portal is south of the belt portal and is used as a ventilation portal.

A fifth portal has been driven to the outside approximately 1000' south of the fourth portal. This is a ventilation portal, and surfaces just south of the old sealed entry at this location. Complete description of this project is found in Appendix 3-7. (See Figure 3-1 for locations).

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3.2.5 POWER SYSTEM TRANSMISSION LINES, SUBSTATION, MINE

FEEDERS

Power is supplied by Utah Power and Light at 12,470 volts, 60HZ, 30. The mine substation located south of the office building is connected to transmission lines from the mouth of the canyon. Transformers convert the 12,470 volts to 4160 volts for underground distribution.

The three main transformers are rated at 667 KVA each and are connected wye primary, wye secondary. The (3) 4160/480 outside transformers are rated at 333 KVA each and are connected wye primary, delta secondary. The office building receives power from a 480/120/220 V pole-mounted transformer.

Power underground is distributed by a 4/0 mine feeder cable at 4160 volts. At each working section, the section transformer reduces the 4160 volts to a machine voltage of 480 volts. Belt transformers reduce the 4160 volts down to 480 volts along the main line (See Figure 3-3).

3.2.6 WATER SUPPLY SYSTEM

The culinary water supply for the Trail Mountain Mine is drawn from underground mine water. Mine water is collected in an underground sump and skimmed of oil. Approximately 10,000 gallons per day of this water is prepared in the treatment plant for use as potable water. Some mine water is used for wash down.

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Trail Mountain Mine**

Water is treated on the surface at a maximum rate of 10 gpm and then stored in two 22,000 gallon capacity fresh water storage tanks. The treatment plant and process are approved by the Utah State Department of Social Services- Division of Health- Bureau of Water Quality. A schematic of the water system is shown in Figure 3-4.

Surface road, loadout and yard sprinkler systems are also supplied by the underground mine water. These systems are connected to the mine water system at the belt portal location. If the need should develop for filling water trucks, or supplying alternate water to the mine or surface system, this water would be drawn from the 2-22,00 gallon surface storage tanks referred to in figure 3-4.

Trail Mountain Mine

SURETY BOND ESTIMATE
TABLE 3-3

ITEM	AMOUNT LABOR MAN/SHIFT ^{1,2}	COST/MAN SHIFT	LABOR COST	EQUIPMENT ³ REQUIREMENTS	MATERIAL ⁴ EQUIPMENT SHIFT/COST ⁵	MATERIALS EQUIPMENT TOTAL COST	TOTAL LABOR MATERIALS EQUIPMENT ¹	
Chute	1/3	160	480	Truck	3/250	750	1230	
	1/3	160	480	Crane	3/381	1143	1623	
	1/3	120	360	None	-	-	360	
Main Fan	1/7	160	1120	Truck	7/250	1750	2870	
	1/4	160	640	Crane	4/381	1524	2164	
	1/2	160	320	Backhoe/Loader	2/250	500	820	
Scale and Scale House	1/2	160	320	Truck	2/250	500	820	
	1/2	160	320	Backhoe/loader	2/225	450	770	
	2/2	120	480	None	-	-	480	
Storage Shed	3/1	160	480	Backhoe/loader	1/250	250	730	
Loading Dock	1/1	160	160	Backhoe/loader	1/250	250	410	
Pump House/ Water Tank	1/1	160	160	Truck	1/250	250	410	
	1/1	160	160	Crane	1/381	381	541	
	3/1	120	360	None	-	-	360	
RCM Transfer Operator	2/2	127	508	25 ton crane truck/trailer	2/297 2/267	594 534		
	Laborer	2/3	123	738	2 yd. Hyd. Excav.	.5/424	212	
					2.5 yd loader	.5/293	147	
Foreman	1/3	137	411	16 tn dump truck torch, gas & air	1/227 3/40	227 120	3491	
Tipple Elec. Facility operator	3/2	127	762	25 ton crane truck/trailer	.75/297 .75/267	223 200		
	Laborer	1/2	123	246	2 yd. Hyd. Excav.	1/424	424	
					2.5 yd. loader	1/293	293	
Foreman	1/2	137	274	16 tn dump truck torch, gas & air	1/227 2/40	227 80	2729	

Trail Mountain Mine

SURETY BOND ESTIMATE TABLE 3-3

ITEM	AMOUNT LABOR MAN/SHIFT ^{1,8}	COST/MAN SHIFT	LABOR COST	EQUIPMENT ⁹ REQUIREMENTS	MATERIAL ⁴ EQUIPMENT SHIFT/COST ⁵	MATERIALS EQUIPMENT TOTAL COST	TOTAL LABOR MATERIALS EQUIPMENT ¹¹
Conveyor	1/5	160	800	Truck	5/250	1250	2050
Structure	1/5	160	800	Crane	5/381	1905	2705
	1/5	120	600	None	-	-	600
Loading Dock	1/.5	160	80	Truck	.5/250	125	205
	1/.5	160	80	Loader	.5/225	113	193
Coal Pile	1/.5	160	80	Jeffrey	.5/500	250	330
	1/.5	160	80	Dozer	.5/703	352	432
Sediment Pond	1/2	160	320	Jeffrey	2/500	1000	1320
	1/2	160	320	Loader	2/225	450	770
Seal Portals	3/10	120	3600	Concrete Block	5/1000	5000	8600
Explosive Magazine	1/2	120	240	Concrete Block	2/500	1000	1240
Culverts	1/20	160	3200	Truck	20/250	5000	8200
	1/20	160	3200	Crane	20/381	7620	10820
	2/20	120	4800	None	-	-	4800
Trash Removal	1/2	120	240	Truck	1/250	250	490
						SUBTOTAL	\$100,601
Earth Moving and Recontouring (10, 12)	1/25 (14, 17)	160	4000	Dozer	25/703	17575	21575
	1/62 (15)	160	9920	988 Loader	62/971	60202	70122
	1/15 (16)	160	2400	Track Excavator	15/954	14310	16710
						SUBTOTAL	\$108,407
Riprap (19)	1/12	160	1920	Truck	12/250	3000	4920
	1/12	160	1920	Backhoe/loader	12/225	2700	4620
	1/12	120	1440	None	-	-	1440
						SUBTOTAL	\$10,980

TABLE 3-4
RECLAMATION-COST BREAKDOWN FOR
RECLAMATION BOND

	<u>PRESENT BOND</u>
1. Surface Facility Removal	\$100,601
2. Earth Moving and Recontouring	108,407
3. Riprap	10,980
4. Revegetation	56,096
5. Miscellaneous*	<u>70,920</u>
 SUBTOTAL (1984 Dollars)	 \$347,004
+10% Contingency	34,701
+4.3% Reclamation Management	<u>14,921</u>
 TOTAL	 \$396,626
Add an inflation factor of 6.78 percent over 5 year Permit Term	 <u>153,967</u>
 (1989 Dollars) Total Surety Estimate	 \$550,593
+6.78 percent over 5 years	<u>213,735</u>
 (1994 Dollars) Total Surety Estimate	 \$764,328
 **1993 Exploration Drilling (1994 Dollars)	 144,266
 Suggested Surety Estimate (1994 Dollars)	 908,594

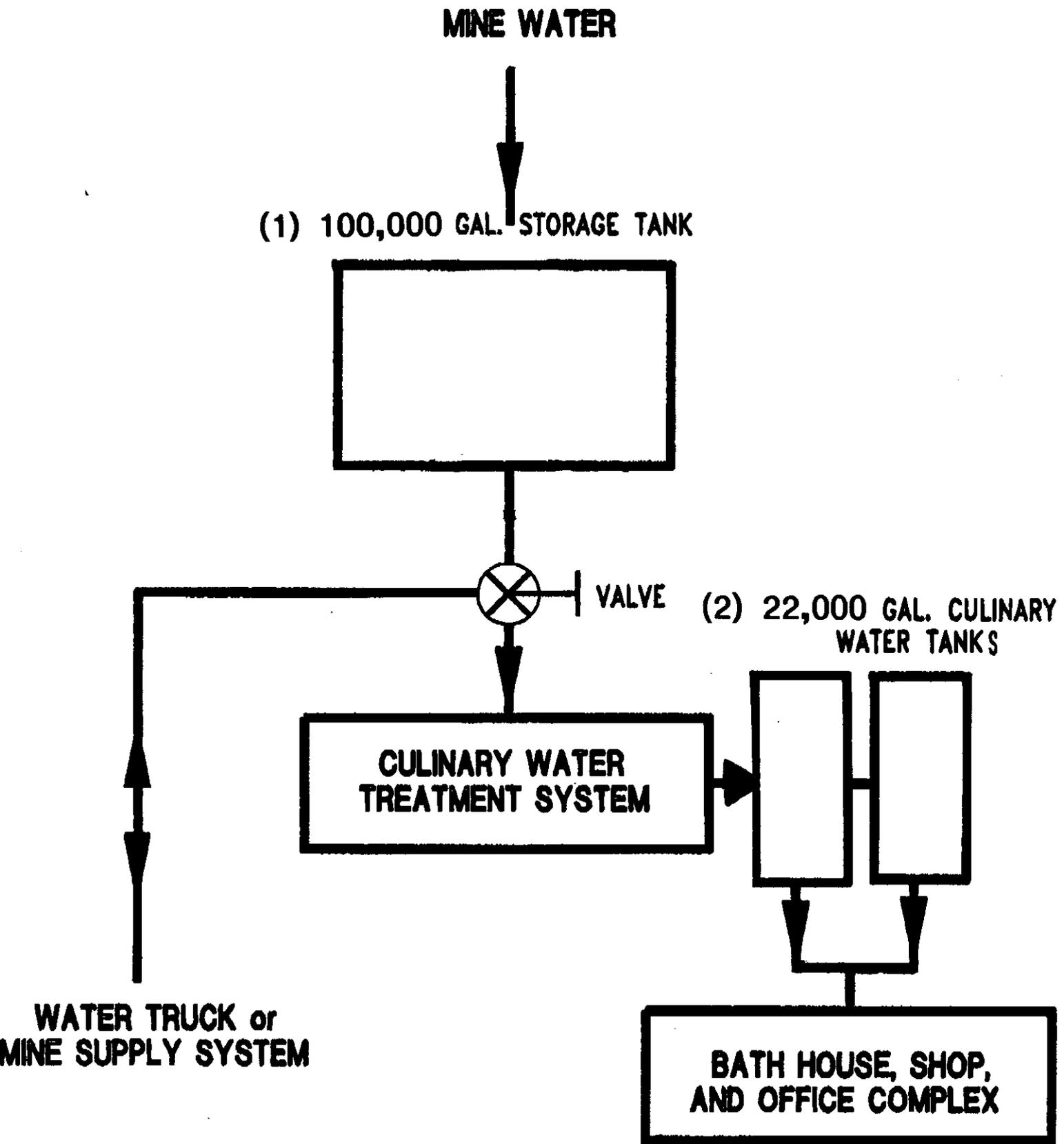
*Miscellaneous costs include all monitoring and maintenance related costs for successful reclamation establishments.

** Total includes +10% Contingency = 12,622 and +4.3% Reclamation Management = 5,427. Original Cost 1994 Dollars = 126,217

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Trail Mountain Mine**

- (h) Water Treatment Plant - The water treatment plant was relocated from the parking area to an area adjacent to the pumphouse and water tank in 1994.**
- (i) ROM Transfer - The ROM Transfer was relocated slightly and structural changes were done in 1994.**
- (j) Tipple Electrical Facility - The Tipple Electrical Facility was removed from the upper bench and a new building was built on the crusher bench in 1994.**

FIGURE 3-4 CULINARY WATER SYSTEM



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Trail Mountain Mine**

3.2.5 POWER SYSTEM TRANSMISSION LINES, SUBSTATION, MINE

FEEDERS

Power is supplied by Utah Power and Light at 12,470 volts, 60HZ, 30. The mine substation located south of the office building is connected to transmission lines from the mouth of the canyon. Transformers convert the 12,470 volts to 4160 volts for underground distribution.

The three main transformers are rated at 667 KVA each and are connected wye primary, wye secondary. The (3) 4160/480 outside transformers are rated at 333 KVA each and are connected wye primary, delta secondary. The office building receives power from a 480/120/220 V pole-mounted transformer.

Power underground is distributed by a 4/0 mine feeder cable at 4160 volts. At each working section, the section transformer reduces the 4160 volts to a machine voltage of 480 volts. Belt transformers reduce the 4160 volts down to 480 volts along the main line (See Figure 3-3).

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The culinary water supply for the Trail Mountain Mine is drawn from underground mine water. Mine water is collected in an underground sump and skimmed of oil. Approximately 10,000 gallons per day of this water is prepared in the treatment plant for use as potable water. Some mine water is used for wash down.

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Storage Shed	3/1	160	480	Backhoe/loader	1/250	250	730
Loading Dock	1/1	160	160	Backhoe/loader	1/250	250	410
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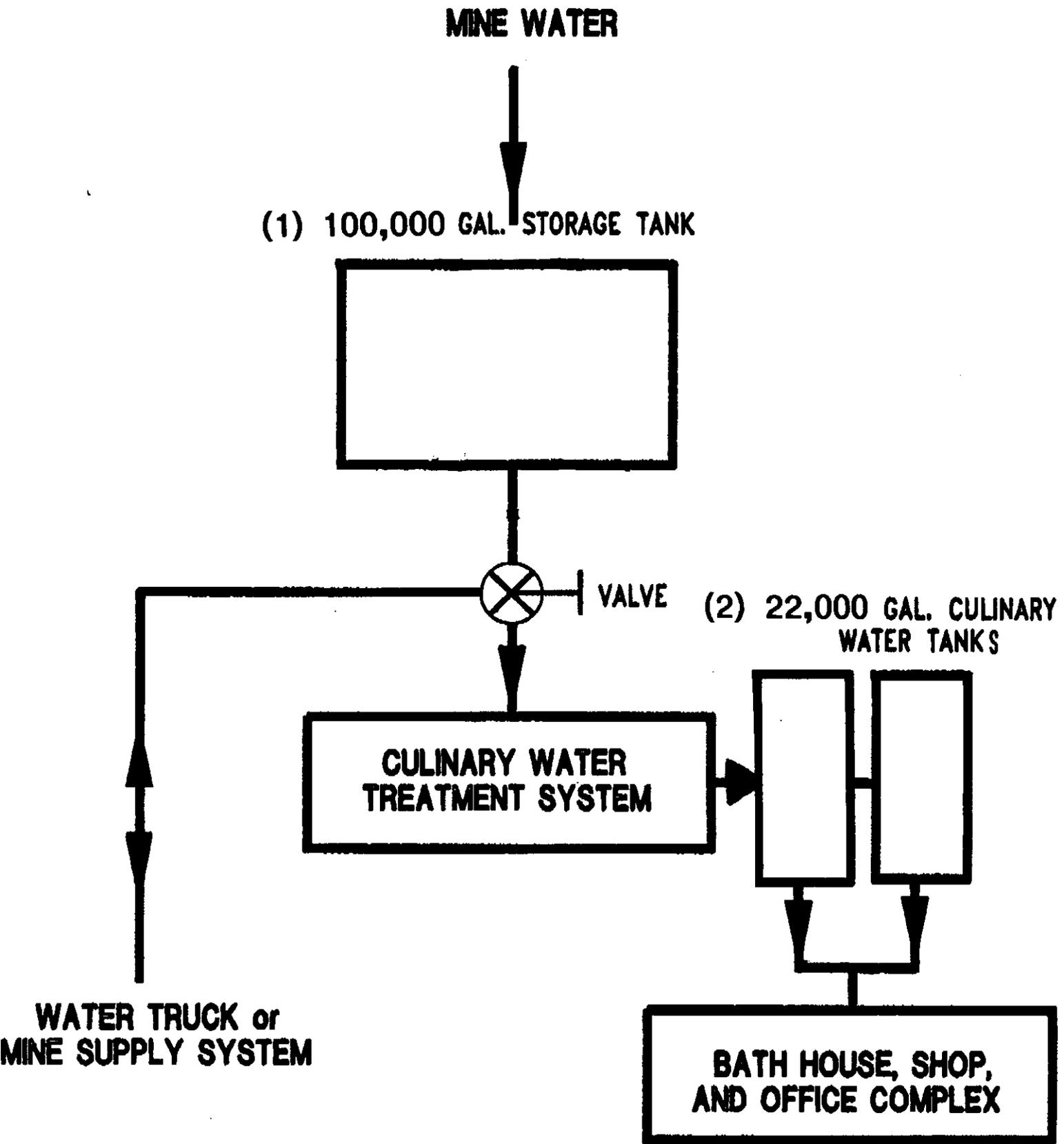
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Power is supplied by Utah Power and Light at 12,470 volts, 60HZ, 30. The mine substation located south of the office building is connected to transmission lines from the mouth of the canyon. Transformers convert the 12,470 volts to 4160 volts for underground distribution.

The three main transformers are rated at 667 KVA each and are connected wye primary, wye secondary. The (3) 4160/480 outside transformers are rated at 333 KVA each and are connected wye primary, delta secondary. The office building receives power from a 480/120/220 V pole-mounted transformer.

Power underground is distributed by a 4/0 mine feeder cable at 4160 volts. At each working section, the section transformer reduces the 4160 volts to a machine voltage of 480 volts. Belt transformers reduce the 4160 volts down to 480 volts along the main line (See Figure 3-3).

3.2.6 WATER SUPPLY SYSTEM

The culinary water supply for the Trail Mountain Mine is drawn from underground mine water. Mine water is collected in an underground sump and skimmed of oil. Approximately 10,000 gallons per day of this water is prepared in the treatment plant for use as potable water. Some mine water is used for wash down.

**PacifiCorp
Trail Mountain Mine**

Water is treated on the surface at a maximum rate of 10 gpm and then stored in two 22,000 gallon capacity fresh water storage tanks. The treatment plant and process are approved by the Utah State Department of Social Services- Division of Health- Bureau of Water Quality. A schematic of the water system is shown in Figure 3-4.

Surface road, loadout and yard sprinkler systems are also supplied by the underground mine water. These systems are connected to the mine water system at the belt portal location. If the need should develop for filling water trucks, or supplying alternate water to the mine or surface system, this water would be drawn from the 2-22,00 gallon surface storage tanks referred to in figure 3-4.

Trail Mountain Mine

SURETY BOND ESTIMATE TABLE 3-3

ITEM	AMOUNT LABOR MAN/SHIFT ^{1,2}	COST/MAN SHIFT	LABOR COST	EQUIPMENT ³ REQUIREMENTS	MATERIAL ⁴ EQUIPMENT SHIFT/COST ⁵	MATERIALS EQUIPMENT TOTAL COST	TOTAL LABOR MATERIALS EQUIPMENT ¹
Chute	1/3	160	480	Truck	3/250	750	1230
	1/3	160	480	Crane	3/381	1143	1623
	1/3	120	360	None	-	-	360
Main Fan	1/7	160	1120	Truck	7/250	1750	2870
	1/4	160	640	Crane	4/381	1524	2164
	1/2	160	320	Backhoe/Loader	2/250	500	820
Scale and Scale House	1/2	160	320	Truck	2/250	500	820
	1/2	160	320	Backhoe/loader	2/225	450	770
	2/2	120	480	None	-	-	480
Storage Shed	3/1	160	480	Backhoe/loader	1/250	250	730
Loading Dock	1/1	160	160	Backhoe/loader	1/250	250	410
Pump House/ Water Tank	1/1	160	160	Truck	1/250	250	410
	1/1	160	160	Crane	1/381	381	541
	3/1	120	360	None	-	-	360
ROM Transfer Operator	2/2	127	508	25 ton crane	2/297	594	3491
				truck/trailer	2/267	534	
				2 yd. Hyd. Excav.	.5/424	212	
				2.5 yd loader	.5/293	147	
Laborer	2/3	123	738	16 tn dump truck	1/227	227	
				torch, gas & air	3/40	120	
Foreman	1/3	137	411				
Tipple Elec. Facility operator	3/2	127	762	25 ton crane	.75/297	223	2729
				truck/trailer	.75/267	200	
				2 yd. Hyd. Excav.	1/424	424	
				2.5 yd. loader	1/293	293	
				16 tn dump truck	1/227	227	
Laborer	1/2	123	246	torch, gas & air	2/40	80	
Foreman	1/2	137	274				

Trail Mountain Mine

SURETY BOND ESTIMATE TABLE 3-3

ITEM	AMOUNT LABOR MAN/SHIFT ^{a,8}	COST/MAN SHIFT	LABOR COST	EQUIPMENT ³ REQUIREMENTS	MATERIAL ⁴ EQUIPMENT SHIFT/COST ⁵	MATERIALS EQUIPMENT TOTAL COST	TOTAL LABOR MATERIALS EQUIPMENT ¹¹
Conveyor	1/5	160	800	Truck	5/250	1250	2050
Structure	1/5	160	800	Crane	5/381	1905	2705
	1/5	120	600	None	-	-	600
Loading Dock	1/.5	160	80	Truck	.5/250	125	205
	1/.5	160	80	Loader	.5/225	113	193
Coal Pile	1/.5	160	80	Jeffrey	.5/500	250	330
	1/.5	160	80	Dozer	.5/703	352	432
Sediment Pond	1/2	160	320	Jeffrey	2/500	1000	1320
	1/2	160	320	Loader	2/225	450	770
Seal Portals	3/10	120	3600	Concrete Block	5/1000	5000	8600
Explosive Magazine	1/2	120	240	Concrete Block	2/500	1000	1240
Culverts	1/20	160	3200	Truck	20/250	5000	8200
	1/20	160	3200	Crane	20/381	7620	10820
	2/20	120	4800	None	-	-	4800
Trash Removal	1/2	120	240	Truck	1/250	250	490
						SUBTOTAL	\$100,601
Earth Moving and Recontouring (10, 12)	1/25 (14, 17)	160	4000	Dozer	25/703	17575	21575
	1/62 (15)	160	9920	988 Loader	62/971	60202	70122
	1/15 (16)	160	2400	Track Excavator	15/954	14310	16710
						SUBTOTAL	\$108,407
Riprap (19)	1/12	160	1920	Truck	12/250	3000	4920
	1/12	160	1920	Backhoe/loader	12/225	2700	4620
	1/12	120	1440	None	-	-	1440
						SUBTOTAL	\$10,980

**TABLE 3-4
RECLAMATION-COST BREAKDOWN FOR
RECLAMATION BOND**

	<u>PRESENT BOND</u>
1. Surface Facility Removal	\$100,601
2. Earth Moving and Recontouring	108,407
3. Riprap	10,980
4. Revegetation	56,096
5. Miscellaneous*	<u>70,920</u>
 SUBTOTAL (1984 Dollars)	 \$347,004
+10% Contingency	34,701
+4.3% Reclamation Management	<u>14,921</u>
 TOTAL	 \$396,626
Add an inflation factor of 6.78 percent over 5 year Permit Term	 <u>153,967</u>
 (1989 Dollars) Total Surety Estimate	 \$550,593
+6.78 percent over 5 years	<u>213,735</u>
 (1994 Dollars) Total Surety Estimate	 \$764,328
 **1993 Exploration Drilling (1994 Dollars)	 144,266
 Suggested Surety Estimate (1994 Dollars)	 908,594

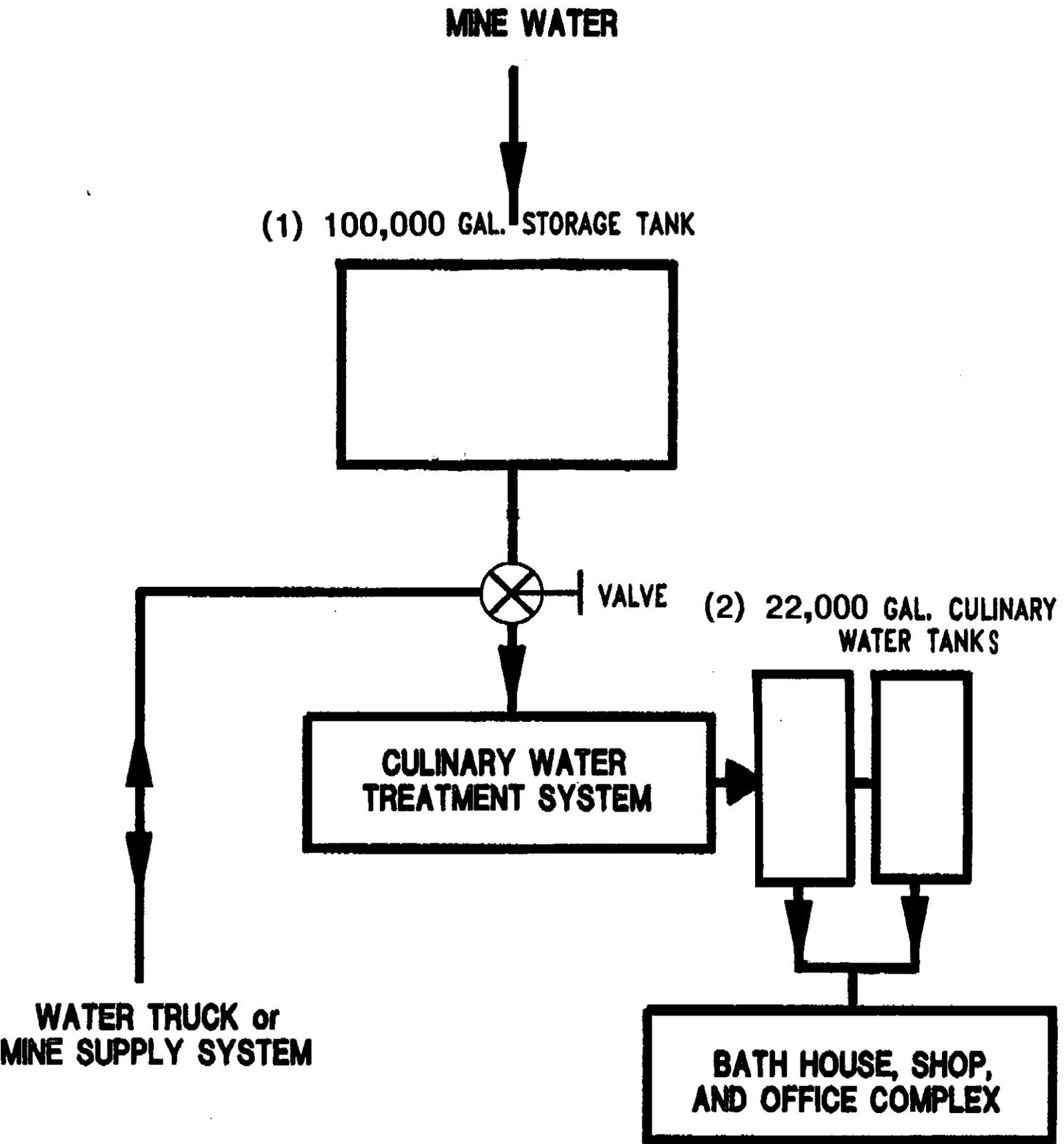
*Miscellaneous costs include all monitoring and maintenance related costs for successful reclamation establishments.

** Total includes +10% Contingency = 12,622 and +4.3% Reclamation Management = 5,427. Original Cost 1994 Dollars = 126,217

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Trail Mountain Mine**

- (h) Water Treatment Plant - The water treatment plant was relocated from the parking area to an area adjacent to the pumphouse and water tank in 1994.**
- (i) ROM Transfer - The ROM Transfer was relocated slightly and structural changes were done in 1994.**
- (j) Tipple Electrical Facility - The Tipple Electrical Facility was removed from the upper bench and a new building was built on the crusher bench in 1994.**

FIGURE 3-4 CULINARY WATER SYSTEM



PERMIT AMENDMENT APPROVAL

Title: <u>Relocate Water Treatment</u>	PERMIT NUMBER: <u>015/009</u>
Description:	PERMIT CHANGE #: <u>94A</u>
	MINE: <u>Trail Mtn:</u>
	PERMITTEE: <u>Pacificorp</u>

		WR	YES, NO or N/A
1. The application is complete.	the State Program.		Yes
2. The proposed permit application pursuant to R645-103-4 operations, unless: A. The applicant made in relation to the State Program. B. The applicant mining pursuant to limitations of 30 CFR Part 1531 et seq. and reclamation commitments were made as unsuitable for operations or reclamation.	tion, filed and reclamation commitments were made as unsuitable for operations or reclamation.	<p style="font-size: 1.2em;">Pam,</p> <p style="font-size: 1.2em;">It looks like everything is OK on this amendment. We should be able to send out an approval and incorporate it into the plan.</p> <p style="font-size: 1.2em;">Thanks Daro</p>	Yes
3. For coal mining and reclamation operations on the hydrologic unit of a private surface estate, the applicant must be approved from the Division of Oil, Gas and Mining, 645-301-114.200.	approved from the Division of Oil, Gas and Mining, 645-301-114.200.		NA
4. The Division has made a determination that operations on the hydrologic unit have been designed to prevent or minimize adverse modification of the hydrologic unit.	ing and reclamation operations has been designed to prevent or minimize adverse modification of the hydrologic unit.		Yes
5. The operation would not result in an adverse modification of the hydrologic unit (1531 et seq.).	n destruction or removal of vegetation (16 U.S.C. 1531 et seq.).		Yes
6. The Division has taken into account the listing on the National Register of Historic Places and the permit conditions or characteristics of the hydrologic unit. The Division has determined that the operation is not likely to result in an adverse modification of the hydrologic unit.	n and eligible for listing on the National Register of Historic Places that the operation is not likely to result in an adverse modification of the hydrologic unit.		Yes
7. The Applicant has demonstrated that the operation is not likely to result in an adverse modification of the hydrologic unit.	ed according to the requirements of 30 CFR Part 1531 et seq.		Yes
8. The Applicant has demonstrated that the operation is not likely to result in an adverse modification of the hydrologic unit.	ce standards of 30 CFR Part 1531 et seq.		Yes
9. The Applicant has paid a bond as required by 30 CFR Part 1531 et seq.	perations as required by 30 CFR Part 1531 et seq.		Yes
10. The Applicant has satisfied the requirements of 30 CFR Part 1531 et seq.			Yes NA
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.			NA

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL	YES	NO
1. Are there any variances associated with this permit amendment approval? If yes, attach.		X
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.		X
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.		X

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed _____
 Director, Division of Oil, Gas and Mining

_____ EFFECTIVE DATE

PERMIT AMENDMENT APPROVAL

Title: <u>Relocate Water Treatment</u>	PERMIT NUMBER: <u>015/009</u>
Description:	PERMIT CHANGE #: <u>94A</u>
	MINE: <u>Trail Mtn:</u>
	PERMITTEE: <u>Pacificorp</u>

WRITTEN FINDINGS FOR PERMIT APPLICATION APPROVAL

	YES, NO or N/A
1. The application is complete and accurate and the applicant has complied with all the requirements of the State Program.	Yes
2. The proposed permit area is not within an area under study or administrative proceedings under a petition, filed pursuant to R645-103-400 or 30 CFR 769, to have an area designated as unsuitable for coal mining and reclamation operations, unless:	Yes
A. The applicant has demonstrated that before January 4, 1977, substantial legal and financial commitments were made in relation to the operation covered by the permit application, or	
B. The applicant has demonstrated that the proposed permit area is not within an area designated as unsuitable for mining pursuant to R645-103-300 and R645-103-400 or 30 CFR 769 or subject to the prohibitions or limitations of R645-103-230.	
3. For coal mining and reclamation operations where the private mineral estate to be mined has been severed from the private surface estate, the applicant has submitted to the Division the documentation required under R645-301-114.200.	NA
4. The Division has made an assessment of the probable cumulative impacts of all anticipated coal mining and reclamation operations on the hydrologic balance in the cumulative impact area and has determined that the proposed operation has been designed to prevent material damage to the hydrologic balance outside the permit area.	Yes
5. The operation would not affect the continued existence of endangered or threatened species or result in destruction or adverse modification of their critical habitats, as determined under the Endangered Species Act of 1973 (16 U.S.C. 1531 et.seq.).	Yes
6. The Division has taken into account the effect of the proposed permitting action on properties listed on and eligible for listing on the National Register of Historic Places. This finding may be supported in part by inclusion of appropriate permit conditions or changes in the operation plan protecting historic resources, or a documented decision that the Division has determined that no additional protection measures are necessary.	Yes
7. The Applicant has demonstrated that reclamation as required by the State Program can be accomplished according to information given in the permit application.	Yes
8. The Applicant has demonstrated that any existing structure will comply with the applicable performance standards of R645-301 and R645-302.	Yes
9. The Applicant has paid all reclamation fees from previous and existing coal mining and reclamation operations as required by 30 CFR Part 870.	Yes
10. The Applicant has satisfied the applicable requirements of R645-302.	Yes NA
11. The Applicant has, if applicable, satisfied the requirements for approval of a long-term, intensive agricultural postmining land use, in accordance with the requirements of R645-301-353.400.	NA

SPECIAL CONDITIONS OR STIPULATIONS TO THE PERMIT AMENDMENT APPROVAL

	YES	NO
1. Are there any variances associated with this permit amendment approval? If yes, attach.		X
2. Are there any special conditions associated with this permit amendment approval? If yes, attach.		X
3. Are there any stipulations associated with this permit amendment approval? If yes, attach.		X

The Division hereby grants approval for Permit Amendment to the Existing Permit by incorporation of the proposed changes described herein and effective the date signed below. All other terms and conditions of the Existing Permit shall be maintained and in effect except as superseded by this Permit Amendment.

Signed _____

Director, Division of Oil, Gas and Mining

EFFECTIVE DATE _____



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

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

April 15, 1994

TO: File

FROM: Jess Kelley, Reclamation Engineer *JK*

RE: Amendment to Relocate Water Treatment Plant, ROM Transfer, and Tipple Electrical Facility and to Update Reclamation Cost Estimate, PacifiCorp, Trail Mountain Mine, ACT/015/009-94A, Folder #2, Emery County, Utah

SYNOPSIS

The permittee submitted this amendment for Division approval on March 14, 1994. By this amendment, the permittee proposes to 1) relocate several surface facilities, and 2) update the reclamation cost estimate to include these reclamation costs as well as those associated with several amendments from the past year.

ANALYSIS

This amendment involves the relocation of three surface facilities: the water treatment plant, the ROM transfer, and the tipple electrical facility (substation). The water treatment plant will be moved from the parking area to the pumphouse/water tank area, the ROM transfer will be moved only a few feet and enlarged, and the tipple electrical facility will be moved from the upper bench to the crusher bench and enclosed in a new building.

The reclamation costs associated with the water treatment plant, the ROM transfer, and the tipple substation have been revised and included in the overall reclamation cost estimate. The reclamation costs associated with the loading dock, the pumphouse/water tank complex, and the 1993 exploratory drilling program, which have been approved in the past as separate amendments, have also been included in the overall reclamation cost estimate. The reclamation costs associated with the surface facilities add \$6220 to the overall cost estimate, while the reclamation costs associated with the 1993 exploratory drilling program add \$144,266. Altogether, these added reclamation costs raise the overall cost from \$750,628 to



ACT/015/009-94A
April 15, 1994
Page 2

\$908,594, in 1994 dollars. Since the current reclamation bond is for \$1 million, no revision of the bond is necessary.

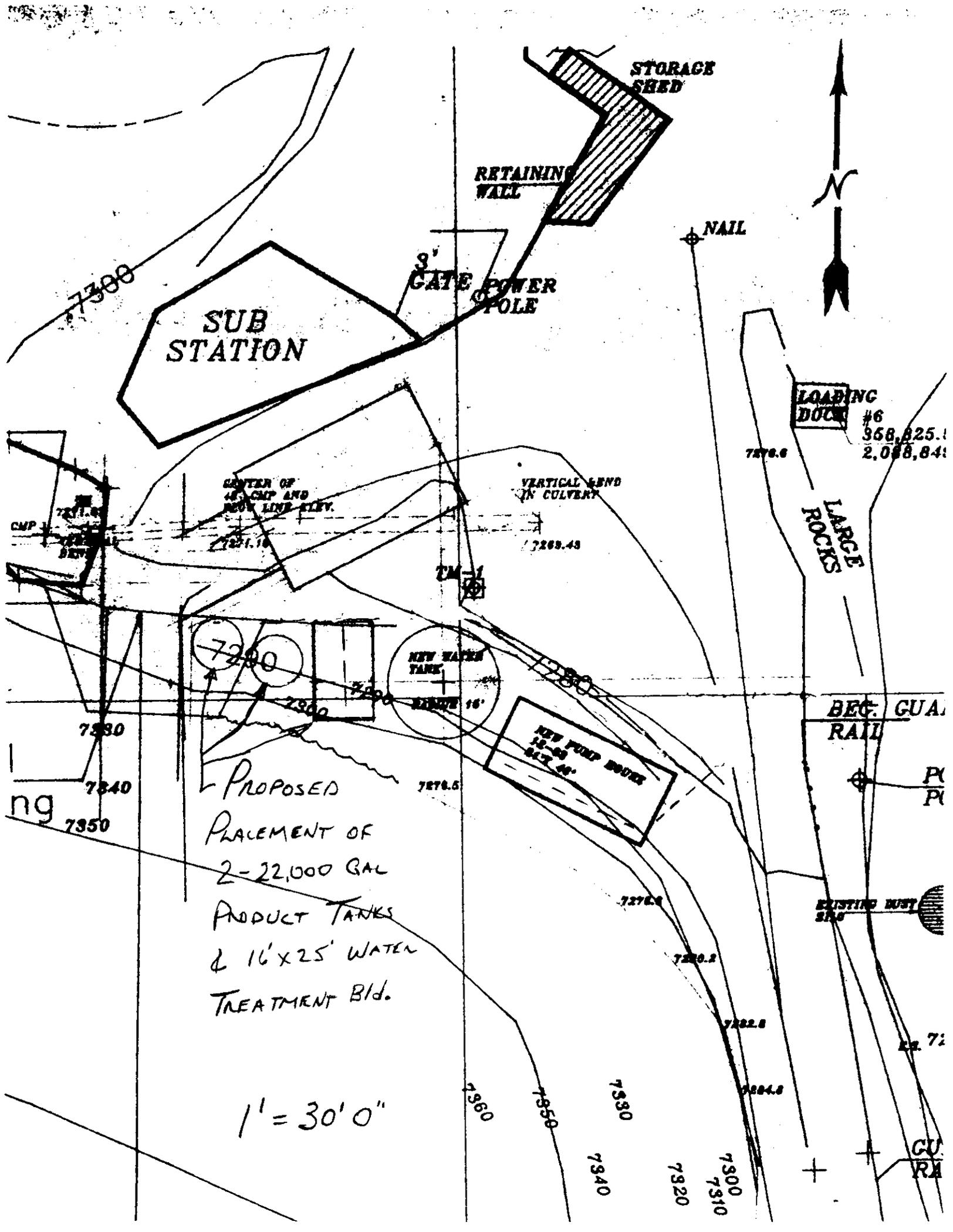
This amendment makes no changes in the hydrology. The relocations and modifications will all be within the present disturbed area and all will continue to drain to the same large main diversion.

This amendment meets the applicable requirements of the R645 rules.

RECOMMENDATIONS

It is recommended that this amendment be approved and included as part of the approved plan.

CC: Daron Haddock
Pamela Grubaugh-Littig



SUB STATION

STORAGE SHED

RETAINING WALL

3' GATE POWER POLE

NAIL

LOADING DOCK #6

368,825.1
2,088,841

CENTER OF 48" CMP AND
NEW LINE ELEV.

VERTICAL END
IN COLVERT

LARGE ROCKS

NEW WATER TANK
DIAMETER 16'

NEW PUMP HOUSE
15'-00" x 24'-00"

BEG. GUA. RAIL

EXISTING DUST SILENCE

PROPOSED
PLACEMENT OF
2-22,000 GAL
PRODUCT TANKS
& 16'x25' WATER
TREATMENT Bld.

1" = 30' 0"

22.72

CUR



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

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801-538-5319 (TDD)

March 16, 1994

Mr. Val Payne,
Sr. Environmental Engineer
PacifiCorp
P.O. Box 1005
Huntington, Utah 84528

Re: Relocation of Water Treatment Plant, ROM Transfer and Tipple
Electrical Facility, PacifiCorp, Trail Mountain Mine,
ACT/015/009-94A, Folder #2, Emery County, Utah

Dear Mr. Payne:

The Division received the proposed permit change, Relocation of Water Treatment Plant, ROM Transfer and Tipple Electrical Facility, on March 14, 1994 and has determined the application complete. This amendment has been assigned permit change number ACT/015/009-94A.

Completion of this review is anticipated by April 22, 1994. If you have any questions or concerns, please call Daron Haddock.

Sincerely,

A handwritten signature in cursive script that reads "Pamela Grubaugh-Littig".

Pamela Grubaugh-Littig
Permit Supervisor



March 8, 1994

Ms. Pamela Grubaugh-Littig
Permit Supervisor
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

MAR 14

94A File Copy to Amendment file

Re: **REQUEST FOR AN AMENDMENT TO RELOCATE; WATER TREATMENT PLANT, ROM TRANSFER AND TIPPLE ELECTRICAL FACILITY, PACIFICORP, TRAIL MOUNTAIN MINE, ACT/015/009, EMERY COUNTY, UTAH.**

Dear Ms. Grubaugh-Littig:

Pacificorp requests that an amendment be granted to allow the Trail Mountain Mine Water Treatment Plant, ROM Transfer and Tipple Electrical Facility to be relocated. Maps depicting the approximate locations are enclosed for your review

The relocation of the Water Treatment Plant will put it adjacent to the newly constructed High Pressure Water Tank and Building (see enclosed map). This relocation will still place the Water Treatment Plant on the existing disturbed area with all surface drainage reporting to the sediment pond. Four (4) 22,000 gallon tanks are presently used with the Water Treatment Plant as follows; two (2) for raw water, one (1) for product water and one (1) is empty but used as spare product water tank. The relocation will eliminate the two (2) raw water tanks. The two (2) remaining tanks used will be for product water. Raw water storage will come from the existing high pressure tank. Since two tanks are being eliminated and the remaining facility is being relocated no additional reclamation costs will be incurred.

The relocation of the ROM Transfer requires minimal location adjustments, but incorporates substantial structural changes. This relocation still places the ROM Transfer on the existing disturbed area with all surface runoff reporting to the sediment pond. Since the existing reclamation cost for the ROM Transfer is embedded under the conveyor structure costs Pacificorp has decided to leave the conveyor structure cost as it is and add a new reclamation cost for the ROM transfer. The cost break down is as follows:

ROM TRANSFER

<u>LABOR</u>			<u>EQUIPMENT</u>				<u>TOTAL COST</u>
<u>MAN/SHIFT</u>	<u>COST/ MAN/SHIFT</u>	<u>COST</u>	<u>TYPE</u>	<u>SHIFT/COST</u>	<u>COST</u>		
Operator	2/2	\$127	\$508	25 Ton Crane	2/\$297	\$594	<u>\$3,491</u>
				Truck/Trailer	2/\$267	\$534	
Laborer	2/3	\$123	\$738	2 yd. Hyd. Excav.	.5/\$424	\$212	
				2.5 yd. loader	.5/\$293	\$147	
Foreman	1/3	\$137	\$411	16 Ton Dump Truck	1/\$227	\$227	
				Torch, Gas & Air	3/\$40	\$120	
		<u>SUB-TOTAL</u>	<u>\$1,657</u>		<u>SUB-TOTAL</u>	<u>\$1,834</u>	

The relocation of the tipple electrical facility requires all new structure and construction. The new location will be on the next bench down, where the crusher is located (see location map). This relocation still places the tipple electrical facility on the existing disturbed area with all surface runoff reporting to the sediment pond. Approximately 18.5 cu yds. of spoil and/or sub-soil will be removed from the toe and replaced behind the concrete wall of the electrical building. Since the existing reclamation cost for the Tipple Electrical Facility is embedded under the substation and power line costs Pacificorp has decided to leave the substation and power line cost as it is and add a new reclamation cost for the Tipple Electrical Facility. The cost break down is as follows:

TIPPLE ELECTRICAL FACILITY

<u>LABOR</u>			<u>EQUIPMENT</u>				<u>TOTAL COST</u>
<u>MAN/SHIFT</u>	<u>COST/ MAN/SHIFT</u>	<u>COST</u>	<u>TYPE</u>	<u>SHIFT/COST</u>	<u>COST</u>		
Operator	3/2	\$127	\$762	25 Ton Crane	.75/\$297	\$223	<u>\$2,729</u>
				Truck/Trailer	.75/\$267	\$200	
Laborer	1/2	\$123	\$246	2 yd. Hyd. Excav.	1/\$424	\$424	
				2.5 yd. loader	1/\$293	\$293	
Foreman	1/2	\$137	\$274	16 Ton Dump Truck	1/\$227	\$227	
				Torch, Gas & Air	2/\$40	\$80	
		<u>SUB-TOTAL</u>	<u>\$1,282</u>		<u>SUB-TOTAL</u>	<u>\$1,447</u>	

The reclamation bond is currently \$1,000,000. The addition of the ROM Transfer and Tipple Electrical Facility bring the reclamation costs to \$908,594. Therefore the bond is sufficient to cover the current additions.

Please find enclosed for your review three (3) copies of; the location map for water treatment plant relocation, the location map for ROM transfer and tipple electrical facility, the structural drawing for ROM modifications and the structural drawing for the new tipple electrical facility.

Please find enclosed for inclusion in the MRP three (3) copies of; additional page to Appendix 3-10, revised page 3-63, revised page 3-64, revised page 3-69, revised page 3-4, revised page 3-4a, revised figure 3-4.

Please also find enclosed three (3) copies of revised pages 3-1 and 3-1a, which were revised to indicate the addition of the new portal that was installed through the surface facilities amendment (ACT/015/009-93-E). We inadvertently failed to revise these pages in the previous amendment.

Upon completion of construction the structures will be surveyed and figure 3-1, Surface Facilities Map, will be updated and three (3) copies will be submitted to the Division.

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 (with out enclosures)
John Christensen (with out enclosures)
John Elkin (with out enclosures)
J. Blake Webster (with out enclosures)**