Confidential Per Protect	ive Order in UTC Docket UE-140762	
	Exhibit No. CAC-1CT	
Docket UE-140762 et al.		
	Witness: Cindy A. Crane	
	WASHINGTON	
UTILITIES AND TRANSF	PORTATION COMMISSION	
WASHINGTON UTILITIES AND	DOCKETS UE-140762 and UE-140617	
TRANSPORTATION COMMISSION,	(consolidated)	
IRANSI ORTATION COMMISSION,	(consolidated)	
Complainant,		
v.		
PACIFIC POWER & LIGHT		
COMPANY,		
Respondent.		
•		
In the Matter of the Petition of	DOCKET UE-131384 (consolidated)	
PACIFIC POWER & LIGHT		
COMPANY,		
For an Order Approving Deferral of		
Costs Related to Colstrip Outage.		
Cosis Related to Colstrip Outage.		
In the Matter of the Petition of	DOCKET UE-140094 (consolidated)	
PACIFIC POWER & LIGHT		
COMPANY,		
For an Order Approving Deferral of		
Costs Related to Declining Hydro		
Generation.		
	J	

PACIFIC POWER & LIGHT COMPANY

REDACTED REBUTTAL TESTIMONY OF CINDY A. CRANE

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1	Q.	Please state your name, business address, and present position with Pacific
2		Power & Light Company (Pacific Power or Company), a division of PacifiCorp.
3	A.	My name is Cindy A. Crane. My business address is 201 South Main Street, Suite
4		2300, Salt Lake City, Utah 84111. My position is President and Chief Executive
5		Officer (CEO), Rocky Mountain Power.
6	Q.	Did you previously submit direct testimony in this case on behalf of Pacific
7		Power?
8	A.	No. The Company's direct testimony on its pro forma coal expense was included in
9		the testimony of Mr. Gregory N. Duvall. I will be the Company's witness on coal
10		expense in this case, and I am adopting that portion of Mr. Duvall's direct testimony.
11		QUALIFICATIONS
12	Q.	Briefly describe your professional experience.
13	A.	I joined PacifiCorp in 1990 and have held positions of increasing responsibility,
14		including Director of Business Systems Integration, Managing Director of Business
15		Planning and Strategic Analysis, and Vice President of Strategy and Division
16		Services. My responsibilities included the management and development of
17		Services. Try responsionnes mended the management and development of
		PacifiCorp's ten-year business plan, assessing individual business strategies for
18		
18 19		PacifiCorp's ten-year business plan, assessing individual business strategies for
		PacifiCorp's ten-year business plan, assessing individual business strategies for PacifiCorp Energy, managing the construction of the Company's Wyoming wind
19		PacifiCorp's ten-year business plan, assessing individual business strategies for PacifiCorp Energy, managing the construction of the Company's Wyoming wind plants, and assessing the feasibility of a nuclear power plant. In March 2009, I was

Rebuttal Testimony of Cindy A. Crane

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1		management for PacifiCorp's coal-fired generating plants. On November 1, 2014, I
2		was appointed President and CEO, Rocky Mountain Power.
3		PURPOSE AND SUMMARY
4	Q.	What is the purpose of your rebuttal testimony?
5	A.	My rebuttal testimony describes the pro forma coal expense changes in the
6		Company's rebuttal net power costs (NPC). The changes in coal expense described
7		in this testimony reflect updated fuel prices and volumes associated with the coal
8		supplied by the Black Butte mine (Black Butte) and the Bridger Coal Company
9		(BCC) to fuel the Jim Bridger coal-fired generating plant (Bridger plant). My
10		testimony also provides updated coal supply prices for the Colstrip coal-fired
11		generating plant (Colstrip plant).
12	Q.	Please summarize your testimony regarding changes to pro forma coal expense?
13	A.	Pro forma coal expense in the Company's rebuttal NPC increased by approximately
14		\$25.0 million on a west control area basis; \$24.4 million is associated with higher
15		coal prices and \$0.6 million is associated with increased volumes. Approximately
16		million of the price-related increase is related to the Bridger plant and results
17		from updated contract prices and volumes for Black Butte coal and reduced volumes
18		from BCC, resulting in higher BCC costs per ton. The remaining million
19		increase relates to updated coal prices at the Colstrip plant. The rebuttal testimony
20		and exhibits of Ms. Natasha C. Siores address the Washington allocation of these
21		increases.
22		My testimony describes: (1) the terms of the new coal and rail arrangements
23		for Black Butte coal; (2) changes to BCC's underground mine plan; (3) the

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1		reasonableness of the BCC coal costs; and (4) changes in coal prices for the Colstrip
2		plant.
3		CHANGES TO BRIDGER PLANT COAL EXPENSE
4	Brid	ger Plant Cost Summary
5	Q.	How does the Company fuel the Bridger plant?
6	A.	The Bridger plant is fueled by coal supplied by Black Butte and BCC. BCC is a joint
7		venture that mines coal at the Bridger coal mine for delivery to the adjacent Bridger
8		plant. PacifiCorp (through its wholly-owned subsidiary Pacific Minerals, Inc.) owns
9		a two-thirds interest in BCC, and Idaho Power Company (through its wholly-owned
10		subsidiary Idaho Energy Resources Co.) owns a one-third interest. PacifiCorp and
11		Idaho Power Company have the same ownership percentages in the Bridger plant.
12		BCC began supplying coal to the Bridger plant in 1974.
13	Q.	Please summarize the million increase in pro forma coal prices associated
14		with the Bridger plant coal supplies.
15	А.	Confidential Table 1 provides a summary of the price changes that are described in
16		more detail below.



Rebuttal Testimony of Cindy A. Crane

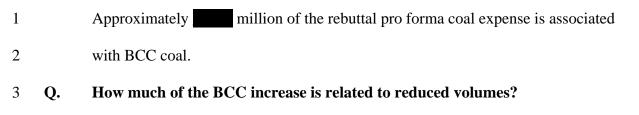
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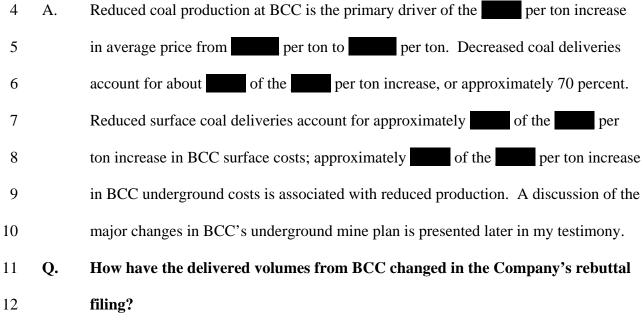
1		As reflected in this table, the costs associated with both BCC and Black Butte coal
2		increased, reflecting updated contract prices for Black Butte and an updated mine
3		plan for BCC. Although costs from both mines increased by different amounts, the
4		BCC and Black Butte coal remain comparably priced. While Black Butte was
5		slightly higher priced in the direct filing, BCC is now slightly higher than Black
6		Butte. This is consistent with the historical BCC and Black Butte costs. In some
7		years, BCC's production costs are lower than the third-party supply from Black Butte,
8		and in other years, BCC's production costs are higher. On balance and over the long
9		term, PacifiCorp's diversified approach has produced a reasonably priced, stable coal
10		supply to the Bridger plant.
11	Black	Butte Price and Volume Changes
12	Q.	Please describe the increased Black Butte coal prices.
12 13	Q. A.	Please describe the increased Black Butte coal prices. The increase in the delivered price of Black Butte is a result of a request for proposals
	-	-
13	-	The increase in the delivered price of Black Butte is a result of a request for proposals
13 14	-	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As
13 14 15	-	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As discussed in the direct testimony of Mr. Duvall, the current Black Butte coal supply
13 14 15 16	-	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As discussed in the direct testimony of Mr. Duvall, the current Black Butte coal supply agreement terminates during the first quarter of 2015. In direct testimony, the
13 14 15 16 17	-	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As discussed in the direct testimony of Mr. Duvall, the current Black Butte coal supply agreement terminates during the first quarter of 2015. In direct testimony, the Company assumed that Black Butte coal would be supplied at the Black Butte
 13 14 15 16 17 18 	-	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As discussed in the direct testimony of Mr. Duvall, the current Black Butte coal supply agreement terminates during the first quarter of 2015. In direct testimony, the Company assumed that Black Butte coal would be supplied at the Black Butte contract deferral price. ¹ The price reflected in the Company's pro forma rebuttal
 13 14 15 16 17 18 19 	A.	The increase in the delivered price of Black Butte is a result of a request for proposals (RFP) for Wyoming coal conducted by the Bridger plant owners in June 2014. As discussed in the direct testimony of Mr. Duvall, the current Black Butte coal supply agreement terminates during the first quarter of 2015. In direct testimony, the Company assumed that Black Butte coal would be supplied at the Black Butte contract deferral price. ¹ The price reflected in the Company's pro forma rebuttal NPC is based on the results of the recently conducted RFP.

¹ Direct Testimony of Gregory N. Duvall, Exhibit No. GND-1CT at 19-20.

1		new coal supply arrangement for the Bridger plant reflect a fixed free-on-board
2		(FOB) price of per ton for Black Butte coal through 2017 for approximately
3		tons annually, a per ton increase. The Jim Bridger plant owners also
4		negotiated new rail rates with the Union Pacific railroad through 2017. Including the
5		new rail rates, the delivered price of Black Butte coal during the pro forma period has
6		increased from per ton to per ton, an increase of per ton.
7	Q.	Please describe the updated volumes that will be delivered to the Bridger plant
8		from Black Butte.
9	A.	The total Black Butte volumes increased from tons to tons. In
10		direct testimony, Black Butte provided percent of the Bridger plant's coal needs;
11		in rebuttal, Black Butte provides percent. ²
12	Q.	How do the updated Black Butte coal prices and volumes increase the Bridger
13		plant's fuel expense?
14	A.	Approximately million of the increase in pro forma coal expense is associated
15		with higher Black Butte and Union Pacific transportation costs and additional Black
16		Butte volumes.
17	BCC	Price and Volume Update
18	Q.	Please describe the increased BCC prices.
19	A.	The increase in BCC prices reflects the Company's updated mine plan, which was
20		prepared in July 2014. Under the new mine plan, BCC's volumes decrease.

² This volume of Black Butte coal is consistent with levels in the Company's 2013 general rate case, Docket UE-130043. *See* Rebuttal Testimony of Cindy A. Crane, Exhibit No. CAC-1T at 7, Docket UE-130043.



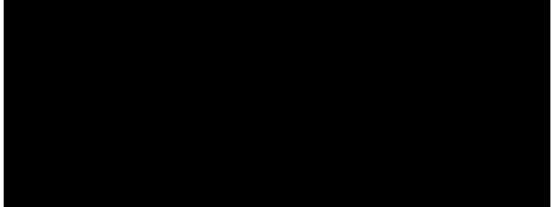


- 13 A. The Company's rebuttal position reflects a reduction in BCC coal deliveries from
- 14 tons to tons, meaning that BCC is now expected to supply
- 15 percent of the Bridger plant's coal, down from percent in the direct testimony.
- 16 Confidential Table 2 below summarizes these volume changes.



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1	Q.	Why are BCC deliveries being reduced by approximately tons from the
2		amounts included in the Company's direct filing?
3	A.	The reduction is primarily associated with updates to BCC's underground mine plan.
4		The mine plans for both BCC's surface and underground operations were updated in
5		July 2014, two months after the Company's initial filing was submitted. The initial
6		filing reflected deliveries based on the most recent BCC mine plan, which was
7		finalized in October 2013.
8		The reduced coal deliveries from the surface and underground mines result
9		from reduced coal production. As reflected in Confidential Table 3 below, the
10		underground mine will produce million tons less coal (PacifiCorp's share)
11		during the pro forma period.

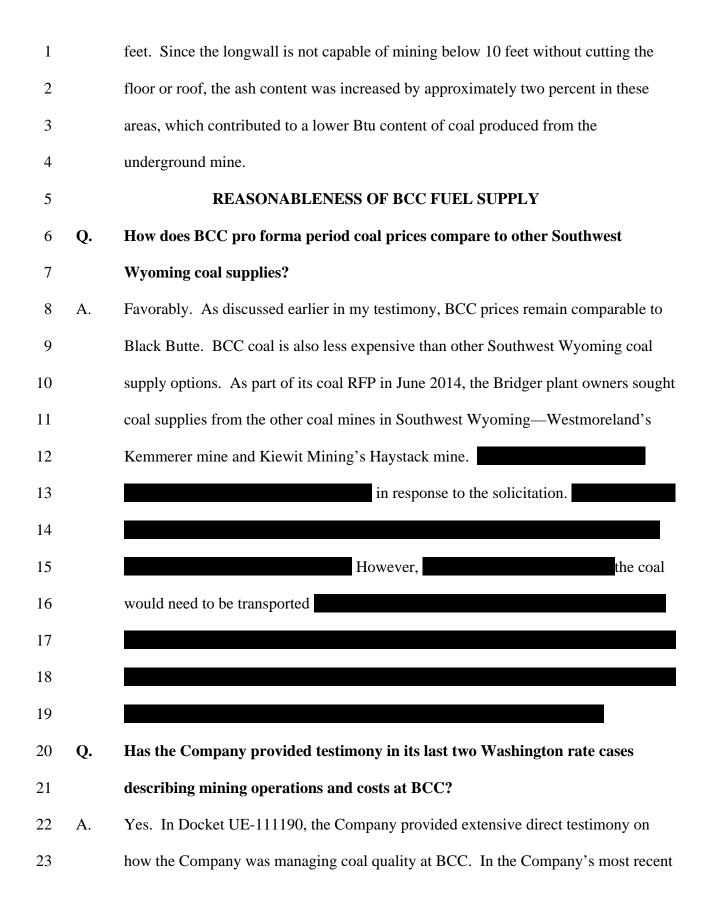


12	Q.	Is the reduced production and delivery of BCC underground coal expected to
13		continue beyond the pro forma period in this case?
14	A.	Yes. The underground mine is projected to produce on average million tons per
15		year from 2015 through 2018, or million tons for PacifiCorp's share. Compared
16		to the mine plan prepared in October 2013, the underground mine plan will produce,

1		on average, over tons (approximately for PacifiCorp's share) less
2		coal annually through 2018.
3	Q.	Please explain the production changes in the underground mine reflected in the
4		July 2014 plan.
5	A.	There are three significant factors contributing to decreased underground production
6		in the July 2014 plan:
7		• Reduction in continuous miner production shifts due to changes in workforce
8		schedules for underground mine employees. The underground mine is now
9		operating two 10-hour shifts, four days per week, compared to two 12-hour shifts,
10		six days per week, in the October 2013 plan.
11		• A reduction in the amount of coal produced by the longwall system from
12		tons per shift in the October 2013 plan to approximately tons per shift in
13		the July 2014 plan.
14		• Shortening of the 15 th right longwall panel.
15	Q.	Why did BCC change the workforce schedules for the underground mine
16		employees?
17	A.	The underground mine has been unable to maintain two 12-hour shifts, six days per
18		week, due to limited workforce availability. Since its inception, the BCC
19		underground mine has experienced high turnover rates as underground miners have
20		gained experience and pursued jobs in the trona ³ industry in Southwest Wyoming.
21		The mine has relied heavily on contract mining services, such as Price Mine Service,
22		to supplement the workforce. Despite the contract labor, BCC has been unable to
	2	

 $\frac{1}{3}$ Trona is a sodium carbonate compound that is processed into soda ash or bicarbonate of soda, or baking soda.

1		sustain the continuous mining activity that is necessary to support longwall panel
2		development. The revised workforce schedule allows the mine to fully staff two
3		10-hour shifts, four days per week.
4	Q.	Why is the longwall production per shift being reduced in the July 2014 plan?
5	A.	Due to workforce shortages discussed above, the mine has been unable to sustain
6		continuous miner development, which is essential to keep from idling the longwall
7		system. The updated production rate allows the underground mine to balance
8		advancement of the longwall system and continuous miner development; the steady
9		rate of longwall production minimizes idling of the longwall and roof stability
10		concerns.
11	Q.	Why is the 15 th right longwall panel being shortened?
12	A.	The start-up point for the 15 th right longwall panel was moved, shortening the panel
13		length as a result of a fault encountered at the back of the panel and changes to the
14		Bridger Coal underground ventilation plan mandated by the Mining Safety and
15		Health Administration.
16	Q.	Are there any other factors contributing to the increased BCC costs?
17	A.	Yes. The reduced heat content of BCC underground coal increases coal prices
18		approximately million.
19	Q.	Please discuss the change in the heat content of BCC deliveries.
20	A.	In the Company's rebuttal, the heat content of BCC deliveries decreases from 9,301
21		to 9,153 British thermal units (Btus) per pound of coal due to increased ash content of
22		the underground mine. The geological modeling in the July 2014 plan was updated to
23		reflect actual mining conditions in areas where the coal seam height is less than 10



1		general rate case, Docket UE-130043, Boise White Paper, Inc. (Boise) argued that
2		BCC coal should be re-priced at market prices. In response, the Company provided
3		extensive rebuttal testimony on the reasonableness of BCC operations and costs. The
4		Commission rejected Boise's adjustment in the final order in that case.
5		COLSTRIP PLANT COST SUMMARY
6	Q.	Please explain the coal price change for the Colstrip plant.
7	A.	The Colstrip plant is supplied by Western Energy's Rosebud mine. The rebuttal pro
8		forma prices were based on Western Energy's 2015 Annual Operating Plan (AOP) for
9		the Rosebud mine. The Colstrip costs included in the Company's direct filing
10		reflected mining costs based on the 2014 AOP. Western Energy provided the
11		Colstrip plant owners with the final 2015 AOP in October 2014. Updating pro forma
12		coal expense to reflect the new AOP increases pro forma west control area NPC by
13		approximately million.
14	Q.	Does this conclude your rebuttal testimony?

15 A. Yes.