Exh. JLB-8C Docket UE-170717 Witness: Jason L. Ball REDACTED VERSION

# BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

**DOCKET UE-170717** 

Complainant,

v.

PACIFIC POWER & LIGHT CO.,

Respondent.

## EXHIBIT TO TESTIMONY OF

Jason L. Ball

### STAFF OF WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Confidential Testimony of Cindy A. Crane in Docket UE-140762

**January 25, 2018** 

Exh. JLB-8C Docket UE-170717 Page 1 of 10 REDACTED VERSION

Confidential Per Protective Order in UTC Docket UE-140762 Exhibit No. CAC-1CT Docket UE-140762 *et al.* Witness: Cindy A. Crane

## BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND **DOCKETS UE-140762 and UE-140617** TRANSPORTATION 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.** In the Matter of the Petition of **DOCKET UE-140094** (consolidated) **PACIFIC POWER & LIGHT** COMPANY,

PACIFIC POWER & LIGHT COMPANY
REDACTED REBUTTAL TESTIMONY OF CINDY A. CRANE

For an Order Approving Deferral of Costs Related to Declining Hydro

Generation.

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

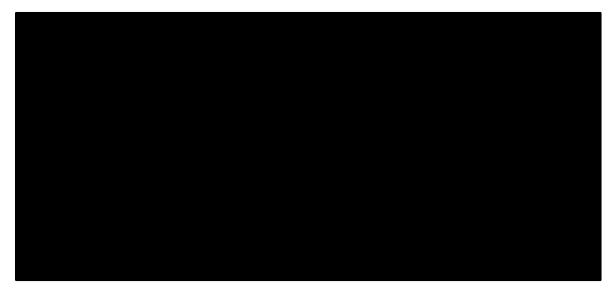
1	reasonableness of the BCC coal costs; and (4) changes in coal prices for the Colstrip
2	plant.

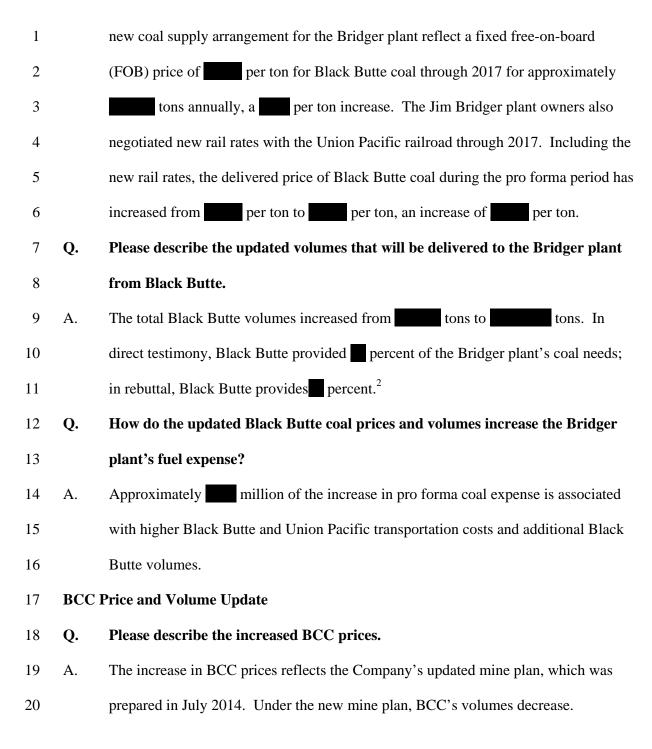
#### CHANGES TO BRIDGER PLANT COAL EXPENSE

#### 4 **Bridger Plant Cost Summary**

3

- 5 Q. How does the Company fuel the Bridger plant?
- The Bridger plant is fueled by coal supplied by Black Butte and BCC. BCC is a joint 6 A. 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.
- Please summarize the million increase in pro forma coal prices associated 13 Q. 14 with the Bridger plant coal supplies.
- 15 A. Confidential Table 1 provides a summary of the price changes that are described in 16 more detail below.





<sup>&</sup>lt;sup>2</sup> 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.

1		Approximately million of the rebuttal pro forma coal expense is associated
2		with BCC coal.
3	Q.	How much of the BCC increase is related to reduced volumes?
4	A.	Reduced coal production at BCC is the primary driver of the per ton increase
5		in average price from per ton to per ton. Decreased coal deliveries
6		account for about of the per ton increase, or approximately 70 percent.
7		Reduced surface coal deliveries account for approximately of the per
8		ton increase in BCC surface costs; approximately of the per ton increase
9		in BCC underground costs is associated with reduced production. A discussion of the
10		major changes in BCC's underground mine plan is presented later in my testimony.
11	Q.	How have the delivered volumes from BCC changed in the Company's rebuttal
12		filing?
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.

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 <sup>th</sup> 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 <sup>3</sup> 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
	<sup>3</sup> Tron	na is a sodium carbonate compound that is processed into soda ash or bicarbonate of soda, or baking soda.

Rebuttal Testimony of Cindy A. Crane

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

1		feet. Since the longwall is not capable of mining below 10 feet without cutting the
2		floor or roof, the ash content was increased by approximately two percent in these
3		areas, which contributed to a lower Btu content of coal produced from the
4		underground mine.
5		REASONABLENESS OF BCC FUEL SUPPLY
6	Q.	How does BCC pro forma period coal prices compare to other Southwest
7		Wyoming coal supplies?
8	A.	Favorably. As discussed earlier in my testimony, BCC prices remain comparable to
9		Black Butte. BCC coal is also less expensive than other Southwest Wyoming coal
10		supply options. As part of its coal RFP in June 2014, the Bridger plant owners sought
11		coal supplies from the other coal mines in Southwest Wyoming—Westmoreland's
12		Kemmerer mine and Kiewit Mining's Haystack mine.
13		in response to the solicitation.
14		
15		However, the coal
16		would need to be transported
17		
18		
19		
20	Q.	Has the Company provided testimony in its last two Washington rate cases
21		describing mining operations and costs at BCC?
22	A.	Yes. In Docket UE-111190, the Company provided extensive direct testimony on
23		how the Company was managing coal quality at BCC. In the Company's most recent

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.