WUTC DOCKET: UE-230172 & UE-210852 EXHIBIT: AEB-21 ADMIT ☑ W/D ☐ REJECT ☐

> Exh. AEB-21 Docket UE-230172 Witness: Ann E. Bulkley

# BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

Docket UE-230172 *(Consolidated)* 

v.

PACIFICORP dba
PACIFIC POWER & LIGHT COMPANY

Respondent.

In the Matter of

ALLIANCE OF WESTERN ENERGY CONSUMERS'

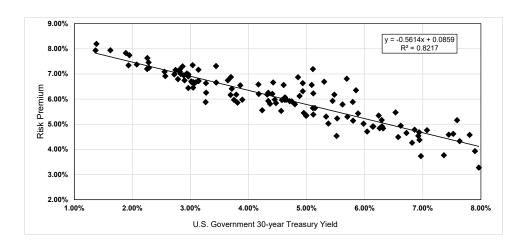
Petition for Order Approving Deferral of Increased Fly Ash Revenues Docket UE-210852 *(Consolidated)* 

## **PACIFICORP**

**EXHIBIT OF ANN E. BULKLEY** 

**Risk Premium Approach** 

October 2023



#### SUMMARY OUTPUT

Regression Statistics					
Multiple R	0.906494				
R Square	0.821732				
Adjusted R Square	0.820306				
Standard Error	0.004309				
Observations	127				

#### ANOVA

	df	SS	MS	F	Significance F
Regression	1	0.010700	0.010700	576.190880	0.000000
Residual	125	0.002321	0.000019		
Total	126	0.013021			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	0.0859	0.0011	76.13	0.00000	0.08370	0.08817	0.08370	0.08817
US Government 30 Year Treasury	(0.5614)	0.0234	(24.00)	0.00000	(0.60768)	(0.51510)	(0.60768)	(0.51510)

	U.S. Govt.		
	30-year	Risk	
	Treasury	Premium	ROE
Current 30-day average of 30-year U.S. Treasury bond yield [4]	4.42%	6.11%	10.53%
Blue Chip Near-Term Projected Forecast (Q4 2023 - Q4 2024) [5]	4.16%	6.26%	10.42%
Blue Chip Long-Term Projected Forecast (2025-2029) [6]	3.80%	6.46%	10.26%
AVERAGE			10.40%

### Notes:

- [1] Regulatory Research Associates, rate cases through September 30, 2023
  [2] S&P Capital IQ Pro, quarterly bond yields are the average of each trading day in the quarter
- [3] Equals Column [1] Column [2]
- [4] S&P Capital IQ Pro, 30-day average as of September 30, 2023 [5] Blue Chip Financial Forecasts, Vol. 42, No. 10, October 1, 2023, at 2
- [6] Blue Chip Financial Forecasts, Vol. 42, No. 6, June 1, 2023, at 14
- [7] See notes [4], [5] & [6]
- [8] Equals 0.085934 + (-0.561390 x Column [7]) [9] Equals Column [7] + Column [8]

#### BOND YIELD PLUS RISK PREMIUM

	[1]	[2]	[3]
	Average Authorized VI	U.S. Govt. 30-	Risk
Quarter	Electric ROE	year Treasury	Premium
1992.1 1992.2	12.38% 11.83%	7.81% 7.90%	4.58% 3.93%
1992.2	12.03%	7.45%	4.59%
1992.4	12.14%	7.52%	4.62%
1993.1	11.84%	7.07%	4.76%
1993.2	11.64%	6.86%	4.78%
1993.3	11.15%	6.32%	4.84%
1993.4 1994.1	11.04% 11.07%	6.14% 6.58%	4.91% 4.49%
1994.1	11.13%	7.36%	3.77%
1994.3	12.75%	7.59%	5.16%
1994.4	11.24%	7.96%	3.28%
1995.1	11.96%	7.63%	4.33%
1995.2	11.32%	6.94%	4.37%
1995.3 1995.4	11.37% 11.58%	6.72% 6.24%	4.65% 5.35%
1996.1	11.46%	6.29%	5.17%
1996.2	11.46%	6.92%	4.54%
1996.3	10.70%	6.97%	3.73%
1996.4	11.56%	6.62%	4.94%
1997.1 1997.2	11.08%	6.82%	4.26%
1997.2	11.62% 12.00%	6.94% 6.53%	4.68% 5.47%
1997.4	11.06%	6.15%	4.91%
1998.1	11.31%	5.88%	5.43%
1998.2	12.20%	5.85%	6.35%
1998.3	11.65%	5.48%	6.17%
1998.4 1999.1	12.30%	5.11%	7.19%
1999.1	10.40% 10.94%	5.37% 5.80%	5.03% 5.14%
1999.3	10.75%	6.04%	4.71%
1999.4	11.10%	6.26%	4.84%
2000.1	11.21%	6.30%	4.92%
2000.2	11.00%	5.98%	5.02%
2000.3	11.68% 12.50%	5.79%	5.89%
2000.4 2001.1	12.50%	5.69% 5.45%	6.81% 5.93%
2001.2	11.00%	5.70%	5.30%
2001.3	10.76%	5.53%	5.23%
2001.4	11.99%	5.30%	6.69%
2002.1	10.05%	5.52%	4.53%
2002.2 2002.3	11.41% 11.65%	5.62% 5.09%	5.79% 6.56%
2002.3	11.57%	4.93%	6.63%
2003.1	11.72%	4.85%	6.87%
2003.2	11.16%	4.60%	6.56%
2003.3	10.50%	5.11%	5.39%
2003.4	11.34%	5.11%	6.23%
2004.1 2004.2	11.00% 10.64%	4.88% 5.34%	6.12% 5.30%
2004.2	10.75%	5.11%	5.64%
2004.4	11.24%	4.93%	6.31%
2005.1	10.63%	4.71%	5.92%
2005.2	10.31%	4.47%	5.84%
2005.3	11.08% 10.63%	4.42%	6.66%
2005.4 2006.1	10.63%	4.65% 4.63%	5.98% 6.07%
2006.2	10.79%	5.14%	5.64%
2006.3	10.35%	5.00%	5.35%
2006.4	10.65%	4.74%	5.91%
2007.1	10.59%	4.80%	5.79%
2007.2 2007.3	10.33% 10.40%	4.99% 4.95%	5.34% 5.45%
2007.3	10.40%	4.95%	6.04%
2008.1	10.62%	4.41%	6.21%
2008.2	10.54%	4.57%	5.96%
2008.3	10.43%	4.45%	5.98%
2008.4	10.39%	3.64%	6.74%
2009.1 2009.2	10.75% 10.75%	3.44% 4.17%	7.31% 6.58%
2009.2	10.75%	4.17%	6.18%
2009.4	10.59%	4.34%	6.25%
2010.1	10.59%	4.62%	5.97%

2010.2	10.18%	4.37%	5.81%
2010.3	10.40%	3.86%	6.55%
2010.4	10.38%	4.17%	6.20%
2011.1	10.09%	4.56%	5.53%
2011.2	10.26%	4.34%	5.92%
2011.3	10.57%	3.70%	6.88%
2011.4	10.39%	3.04%	7.35%
2012.1	10.30%	3.14%	7.17%
2012.2	9.95%	2.94%	7.01%
2012.3	9.90%	2.74%	7.16%
2012.4	10.16%	2.86%	7.30%
2013.1	9.85%	3.13%	6.72%
2013.2	9.86%	3.14%	6.72%
2013.3	10.12%	3.71%	6.41%
2013.4	9.97%	3.79%	6.18%
2014.1	9.86%	3.69%	6.16%
2014.2	10.10%	3.44%	6.66%
2014.3	9.90%	3.27%	6.63%
2014.4	9.94%	2.96%	6.98%
2015.1	9.64%	2.55%	7.08%
2015.2	9.83%	2.88%	6.94%
2015.3	9.40%	2.96%	6.44%
2015.4	9.86%	2.96%	6.90%
2016.1	9.70%	2.72%	6.98%
2016.2	9.48%	2.57%	6.91%
2016.3	9.74%	2.28%	7.46%
2016.4	9.83%	2.83%	7.00%
2017.1	9.72%	3.05%	6.67%
2017.1	9.64%	2.90%	6.75%
2017.2	10.00%	2.82%	7.18%
2017.4	9.91%	2.82%	7.09%
2018.1	9.69%	3.02%	6.66%
2018.2	9.75%	3.09%	6.66%
2018.3	9.69%	3.06%	6.63%
2018.4	9.52%	3.27%	6.25%
2019.1	9.72%	3.01%	6.70%
2019.2	9.58%	2.78%	6.79%
2019.3	9.53%	2.29%	7.25%
2019.4	9.89%	2.26%	7.63%
2020.1	9.72%	1.89%	7.83%
2020.2	9.58%	1.38%	8.19%
2020.3	9.30%	1.37%	7.93%
2020.4	9.56%	1.62%	7.94%
2021.1	9.45%	2.07%	7.38%
2021.2	9.47%	2.26%	7.21%
2021.3	9.27%	1.93%	7.34%
2021.4	9.69%	1.95%	7.74%
2022.1	9.45%	2.25%	7.20%
2022.2	9.50%	3.05%	6.45%
2022.2	9.14%	3.26%	5.88%
2022.4	9.87%	3.89%	5.98%
2023.1	9.72%	3.75%	5.97%
2023.1	9.67%	3.81%	5.86%
2023.2	9.79%	4.23%	5.55%
AVERAGE	10.59%	4.54%	6.04%
MEDIAN	10.54%	4.57%	6.16%
	*		