| WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, <br> Complainant, | Docket UE-230172 <br> (Consolidated) |
| :---: | :---: |
| v. |  |
| PACIFICORP dba <br> PACIFIC POWER \& LIGHT COMPANY |  |
| Respondent. |  |
| In the Matter of |  |
| ALLIANCE OF WESTERN ENERGY CONSUMERS' | Docket UE-210852 <br> (Consolidated) |
| Petition for Order Approving Deferral of Increased Fly Ash Revenues |  |

## 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\% | 0.08370 |
| Intercept | 0.0859 | 0.0011 | 76.13 | 0.00000 | 0.08370 | 0.08817 | 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 Treasury | Risk <br> 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 $0.085934+(-0.561390 \times$ Column [7])
[9] Equals Column [7] + Column [8]

BOND YIELD PLUS RISK PREMIUM

|  | [1] | [2] | [3] |
| :---: | :---: | :---: | :---: |
| Quarter | Average Authorized VI Electric ROE | U.S. Govt. 30year Treasury | Risk Premium |
| 1992.1 | 12.38\% | 7.81\% | 4.58\% |
| 1992.2 | 11.83\% | 7.90\% | 3.93\% |
| 1992.3 | 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 | 11.04\% | 6.14\% | 4.91\% |
| 1994.1 | 11.07\% | 6.58\% | 4.49\% |
| 1994.2 | 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 | 11.37\% | 6.72\% | 4.65\% |
| 1995.4 | 11.58\% | 6.24\% | 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 | 11.08\% | 6.82\% | 4.26\% |
| 1997.2 | 11.62\% | 6.94\% | 4.68\% |
| 1997.3 | 12.00\% | 6.53\% | 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 | 12.30\% | 5.11\% | 7.19\% |
| 1999.1 | 10.40\% | 5.37\% | 5.03\% |
| 1999.2 | 10.94\% | 5.80\% | 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\% | 5.79\% | 5.89\% |
| 2000.4 | 12.50\% | 5.69\% | 6.81\% |
| 2001.1 | 11.38\% | 5.45\% | 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 | 11.41\% | 5.62\% | 5.79\% |
| 2002.3 | 11.65\% | 5.09\% | 6.56\% |
| 2002.4 | 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 | 11.00\% | 4.88\% | 6.12\% |
| 2004.2 | 10.64\% | 5.34\% | 5.30\% |
| 2004.3 | 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\% | 4.42\% | 6.66\% |
| 2005.4 | 10.63\% | 4.65\% | 5.98\% |
| 2006.1 | 10.70\% | 4.63\% | 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 | 10.33\% | 4.99\% | 5.34\% |
| 2007.3 | 10.40\% | 4.95\% | 5.45\% |
| 2007.4 | 10.65\% | 4.61\% | 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 | 10.75\% | 3.44\% | 7.31\% |
| 2009.2 | 10.75\% | 4.17\% | 6.58\% |
| 2009.3 | 10.50\% | 4.32\% | 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\% |
| 2017.2 | 9.64\% | 2.90\% | 6.75\% |
| 2017.3 | 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\% |
| 2022.3 | 9.14\% | 3.26\% | 5.88\% |
| 2022.4 | 9.87\% | 3.89\% | 5.98\% |
| 2023.1 | 9.72\% | 3.75\% | 5.97\% |
| 2023.2 | 9.67\% | 3.81\% | 5.86\% |
| 2023.3 | 9.79\% | 4.23\% | 5.55\% |
| AVERAGE | 10.59\% | 4.54\% | 6.04\% |
| MEDIAN | 10.54\% | 4.57\% | 6.16\% |

