

Exhibit No.:  
Issues: Rate of Return  
Witness: Christopher C. Walters  
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Sponsoring Party: Missouri Industrial Energy Consumers  
Case No.: ER-2024-0319  
Date Testimony Prepared: January 17, 2025

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

\_\_\_\_\_)  
**In the Matter of Union Electric Company** )  
**d/b/a Ameren Missouri's Tariffs to Adjust** ) **Case No. ER-2024-0319**  
**its Revenues for Electric Service** )  
\_\_\_\_\_)

Rebuttal Testimony of

**Christopher C. Walters**

On behalf of

**Missouri Industrial Energy Consumers**

January 17, 2025



Project 11700

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

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Case No. ER-2024-0319

STATE OF MISSOURI )  
  )  
COUNTY OF ST. LOUIS )

SS

**Affidavit of Christopher C. Walters**

Christopher C. Walters, being first duly sworn, on his oath states:

1. My name is Christopher C. Walters. I am a consultant with Brubaker & Associates, Inc., having its principal place of business at 16690 Swingley Ridge Road, Suite 140, Chesterfield, Missouri 63017. We have been retained by the Missouri Industrial Energy Consumers in this proceeding on their behalf.


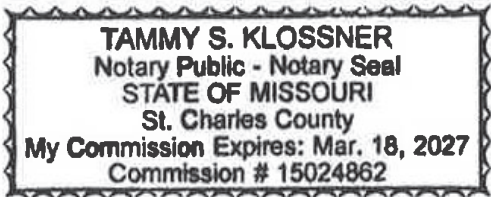
2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony which was prepared in written form for introduction into evidence in Missouri Public Service Commission Case No. ER-2024-0319.

3. I hereby swear and affirm that the testimony is true and correct and that it shows the matters and things that it purports to show.



\_\_\_\_\_  
Christopher C. Walters

Subscribed and sworn to before me this 17<sup>th</sup> day of January, 2025.



\_\_\_\_\_  
Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Adjust its Revenues for Electric Service	) ) ) ) ) )	<b>Case No. ER-2024-0319</b>
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**Rebuttal Testimony of Christopher C. Walters**

1    **Q     PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2    A     Christopher C. Walters. My business address is 16690 Swingley Ridge Road,  
3     Suite 140, Chesterfield, MO 63017.

4    **Q     ARE YOU THE SAME CHRISTOPHER C. WALTERS THAT FILED DIRECT**  
5     **TESTIMONY IN THIS PROCEEDING ON DECEMBER 3, 2024?**

6    A     Yes, I am.

7    **Q     ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?**

8    A     This testimony is presented on behalf of the Missouri Industrial Energy Consumers  
9     (“MIEC”), a non-profit corporation that represents the interests of large consumers in  
10    Missouri rate matters.

11   **Q     WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?**

12   A     The purpose of my Rebuttal testimony is to respond to the testimony and analysis of  
13    Ameren Missouri witness Ann Bulkley.

**Christopher C. Walters  
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**RESPONSE TO MS. ANN E. BULKLEY**

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**Q     WHAT RETURN ON COMMON EQUITY IS AMEREN MISSOURI PROPOSING FOR THIS PROCEEDING?**

A     Ms. Bulkley recommends a range of 10.25% to 11.25% based on her market-based model results. Ameren Missouri is requesting an ROE of 10.25% which is equal to the low-end of Ms. Bulkley’s recommended range of 10.25% to 11.25%.<sup>1</sup>

**Q     ARE MS. BULKLEY’S RETURN ON EQUITY ESTIMATES REASONABLE?**

A     No. Ms. Bulkley’s estimated return on equity is overstated and should be rejected. Specifically, Ms. Bulkley’s analyses produce excessive results for various reasons, including the following:

- 1. Her constant growth DCF results are based on unsustainably high growth rates;
- 2. Her CAPM is based on inflated market risk premiums; and
- 3. Her Risk Premium model is predicated on an excessive estimated risk premium.

**Q     PLEASE SUMMARIZE MS. BULKLEY’S RETURN ON EQUITY ESTIMATES.**

A     Ms. Bulkley’s return on equity estimates are summarized in Table CCW-1R below. With prudent and reasonable adjustments to Ms. Bulkley’s DCF, CAPM, and Risk Premium return estimates, her studies show that my 9.50% recommended return on equity for Ameren Missouri is reasonable.

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<sup>1</sup>Bulkley Direct at 10.

**TABLE CCW-1R**

**Bulkley's Return on Equity Estimates**

<b>Description</b>	<b>Bulkley Results<sup>1</sup></b>		
<u>Constant Growth DCF (Median)</u>	<u>Low</u>	<u>Mean</u>	<u>High</u>
30-Day Average	9.93%	10.54%	11.22%
90-Day Average	10.14%	10.83%	11.44%
180-Day Average	<u>10.14%</u>	<u>10.85%</u>	<u>11.59%</u>
<b>DCF Average</b>	<b>10.07%</b>	<b>10.74%</b>	<b>11.42%</b>
	<b>Beta</b>		
<u>CAPM DCF-Derived Results</u>	<u>Value Line</u>	<u>Bloomberg</u>	<u>LT Average</u>
Current 30-Yr Treasury	12.05%	10.93%	10.67%
Near-Term Projected 30-Yr Treasury	12.04%	10.88%	10.61%
Long-Term Projected 30-Yr Treasury	<u>12.03%</u>	<u>10.86%</u>	<u>10.59%</u>
<b>CAPM Average</b>	<b>12.04%</b>	<b>10.89%</b>	<b>10.62%</b>
 ECAPM	 <b>11.1% - 12.16%</b>		
 <u>Risk Premium</u>	 		
Current 30-Yr Treasury	10.62%		
Near-Term Projected 30-Yr Treasury	10.47%		
Long-Term Projected 30-Yr Treasury	<u>10.41%</u>		
Risk Premium Average	<b>10.50%</b>		
 <b>Recommended Range</b>	 10.25% -11.25%		
<b>RMP Proposed ROE</b>	<b>10.25%</b>		

Sources: <sup>1</sup>Schedule AEB-D2, Attachment 1.

1    **Q     DO YOU HAVE ANY INITIAL COMMENTS CONCERNING THE MODEL RESULTS**  
2    **OF MS. BULKLEY'S ANALYSIS?**

3    **A     Yes.** As shown in Table CCW-1R above, the averages of each of her analytical  
4    methods range from 10.07% (DCF – Low Growth) to 12.16% (ECAPM). Notably, with  
5    the exception of her Low-Growth DCF scenario, the averages of each analytical  
6    method are equal to or exceed the highest authorized ROE for any electric utility in  
7    2024 (10.50%). As such, Ms. Bulkley's recommended range should not serve as a

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1 basis to support the notion the Ameren Missouri's request is somehow conservative or  
2 reasonable.

3 **A. Ms. Bulkley's Constant Growth DCF**

4 **Q PLEASE DESCRIBE MS. BULKLEY'S CONSTANT GROWTH DCF RETURN**  
5 **ESTIMATES.**

6 A Ms. Bulkley's constant growth DCF returns are developed on her Schedule AEB-2D,  
7 Attachment 3. Ms. Bulkley's constant growth DCF models are based on consensus  
8 growth rates published by *Yahoo! Finance and Zacks* and individual growth rate  
9 projections made by *Value Line*.

10 She relied on dividend yield calculations based on average stock prices over  
11 three different time periods: 30-day, 90-day and 180-day ending May 31, 2024. Ms.  
12 Bulkley's DCF analysis considers the low, mean, and high growth rates for each of her  
13 proxy companies. Her proxy group's low, mean, and high growth rates are 5.26%,  
14 6.31%, and 7.23%, respectively.<sup>2</sup> The average of her median DCF results range from  
15 10.07% to 11.42%.

16 **Q ARE THE CONSTANT GROWTH DCF RESULTS PRODUCED BY MS. BULKLEY**  
17 **REASONABLE?**

18 A No. Ms. Bulkley's results are overstated. As discussed in my own DCF study, her  
19 consensus analysts' growth rates are substantially higher than the long-term  
20 sustainable growth rate of 4.14% as described in my direct testimony. Specifically, Ms.  
21 Bulkley's constant growth DCF model is based on growth rates of 5.26%, 6.31%, and

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<sup>2</sup>Schedule AEB-D2, Attachment 3.

1 7.23%. These growth rates are excessive, meaning even her low-growth rate scenario  
2 produces excessive results. As I discuss in greater detail in my direct testimony, growth  
3 rates that exceed the growth rate of GDP in the country in which the utility provides  
4 goods and services cannot be sustained. Therefore, her DCF model results should be  
5 considered as a high-end return estimates. Given the fact Ms. Bulkley's Low-Growth  
6 scenario assumes an average growth rate of 5.26%, which exceeds the consensus  
7 long-term growth rate of the U.S. economy by 112 basis points, it should be given little  
8 weight. Because of the economic infirmities with her assumed proxy company growth  
9 rate that exceeds the expected growth of the US economy in perpetuity, Ms. Bulkley  
10 should have considered the results of a multi-stage DCF.

11 As shown above in Table CCW-1R, the average of her median low growth rate  
12 constant growth DCF is approximately 10.07%. As shown on my Schedule CCW-8  
13 filed with my direct testimony, the average and median multi-stage DCF ROEs for my  
14 proxy group using the 13-week average stock price are 8.67% and 8.43%. After  
15 considering the multi-stage model, a DCF-based ROE closer to 9.25% is reasonable.

## 16 **B. Ms. Bulkley's CAPM Studies**

### 17 **Q PLEASE DESCRIBE MS. BULKLEY'S CAPM ANALYSIS.**

18 A As indicated above, the CAPM analysis is based upon the theory that the market  
19 required rate of return for a security is equal to the risk-free rate, plus a risk premium  
20 associated with the specific security. The risk premium associated with the specific  
21 security is expressed mathematically as:

22 
$$B_i \times (R_m - R_f)$$
 where:

23  $B_i$  = Beta - Measure of the risk for stock

24  $R_m$  = Expected return for the market portfolio

25  $R_f$  = Risk-free rate



1 **Q PLEASE DESCRIBE THE ISSUES YOU HAVE WITH MS. BULKLEY'S CAPM**  
2 **STUDY.**

3 A My primary concern with Ms. Bulkley's CAPM study is her sole reliance on a single  
4 DCF-derived expected market return ultimately used to estimate the market risk  
5 premiums inflates her results.

6 **Q PLEASE DESCRIBE MS. BULKLEY'S MARKET RISK PREMIUMS.**

7 A Ms. Bulkley derived her market risk premiums by conducting a DCF analysis for the  
8 market (S&P 500) and subtracting three estimates of the risk-free rate. Ms. Bulkley  
9 used three market risk premium estimates of 7.86%, 8.11%, and 8.21% based on a  
10 DCF market return of 12.51% less the current, near-term, and projected 30-year  
11 Treasury bond yields of 4.66%, 4.40%, and 4.30%, respectively.<sup>3</sup>

12 **Q WHAT ISSUES DO YOU HAVE WITH MS. BULKLEY'S DCF-DERIVED MARKET**  
13 **RISK PREMIUM ESTIMATES?**

14 A Ms. Bulkley's DCF-derived market risk premiums are based on a market return of  
15 approximately 12.51%, which consists of a weighted average growth rate component  
16 of 10.83% and weighted expected dividend yield of approximately 1.60%.<sup>4</sup> As  
17 discussed above with respect to my own DCF model, the DCF model requires a  
18 long-term sustainable growth rate. Ms. Bulkley's sustainable market growth rate of  
19 10.83% is far too high to be a rational outlook for sustainable long-term market growth.  
20 This growth rate is nearly three times the growth rate of the U.S. GDP long-term growth  
21 outlook of 4.14%.

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<sup>3</sup>Schedule AEB-D2, Attachment 4.

<sup>4</sup>*Id.* (12.51% = 1.60% x (1+0.5 x 10.83%) + 10.83%).

1 In fact, in the Chartered Financial Analyst (“CFA”) curriculum textbooks, the  
2 CFA Institute notes as follows regarding earnings growth rates for the companies within  
3 the composite indices (i.e., S&P 500):

4 Earnings growth for the overall national economy can differ from the  
5 growth of earnings per share in a country's equity market composites.  
6 This is due to the presence of new businesses that are not yet included  
7 in the equity indices and are typically growing at a faster rate than the  
8 mature companies that make up the composites. **Thus, the earnings**  
9 **growth rate of companies making up the composites should be**  
10 **lower than the earnings growth rate for the overall economy.**<sup>5</sup>

11 Given the fact that Ms. Bulkley casts doubt on the DCF model and the optimistic  
12 long-term growth rates used to develop her DCF on the market, she should have  
13 supplemented her analysis with multiple approaches to estimating the market return,  
14 as I have done.

15 **Q DO YOU HAVE ANY OTHER COMMENTS CONCERNING MS. BULKLEY’S CAPM**  
16 **ANALYSIS?**

17 **A** Yes. I find it curious that Ms. Bulkley expresses how she has little faith in the DCF  
18 model as it applies to her proxy group,<sup>6</sup> yet it is the only method she relies on in  
19 estimating the expected return on the market. A more balanced approach would be to  
20 employ multiple methodologies as I have done. Ms. Bulkley’s use of a single model to  
21 estimate the market return is biased and should be rejected.

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<sup>5</sup>CFA Program Curriculum, 2014 Level II Vol.1, “Ethical and Professional Standards, Quantitative Methods, and Economics”, Paul Kutasovic, Reading 15 – Economic Growth and the Investment Decision, p. 609, footnote 5 (emphasis added).

<sup>6</sup>Bulkley Direct at 9; 37-38.

1 **C. Ms. Bulkley’s Empirical CAPM (“ECAPM”) Studies**

2 **Q PLEASE DESCRIBE MS. BULKLEY’S ECAPM ANALYSIS.**

3 A Ms. Bulkley relies on empirical tests of the traditional CAPM model to modify it in such  
4 a way to attempt to *correct* the original CAPM for some deficiencies inherent in the  
5 original model. Empirical tests show that the expected return line, or security market  
6 line, predicted by the CAPM are not as steep as the model would have us believe. In  
7 other words, the traditional CAPM understates the expected return for securities with  
8 betas less than 1 and overstates the expected return for securities with betas greater  
9 than 1. In order to correct for this empirical finding, Ms. Bulkley modifies the traditional  
10 CAPM model as follows:

11 
$$R_i = R_f + 0.75 \times B_i \times (R_m - R_f) + 0.25 \times B_m \times (R_m - R_f) \text{ where:}$$

- 12  $R_i$  = Required return for stock i  
13  $R_f$  = Risk-free rate  
14  $R_m$  = Expected return for the market portfolio  
15  $B_m$  = Beta of the market  
16  $B_i$  = Beta - Measure of the risk for stock

17 **Q WHAT ISSUES DO YOU TAKE WITH MS. BULKLEY’S ECAPM ANALYSIS?**

18 A The biggest issue I have with Ms. Bulkley’s ECAPM analysis is her use of an adjusted  
19 beta as published by *Value Line*. The impact of Ms. Bulkley’s ECAPM adjustments  
20 increases her adjusted beta estimate range of 0.76-0.94 to a range of 0.82-0.96.<sup>7</sup> The  
21 weighting adjustments applied in the ECAPM are mathematically the same as adjusting  
22 beta since the inputs are all multiplicative as shown in the formula above. The result  
23 of both using adjusted betas and ECAPM is a flattening of the security market line.

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<sup>7</sup>75% x 0.76 + 25% x 1 = 0.82 and 75% x 0.94 + 25% x 1 = 0.95.

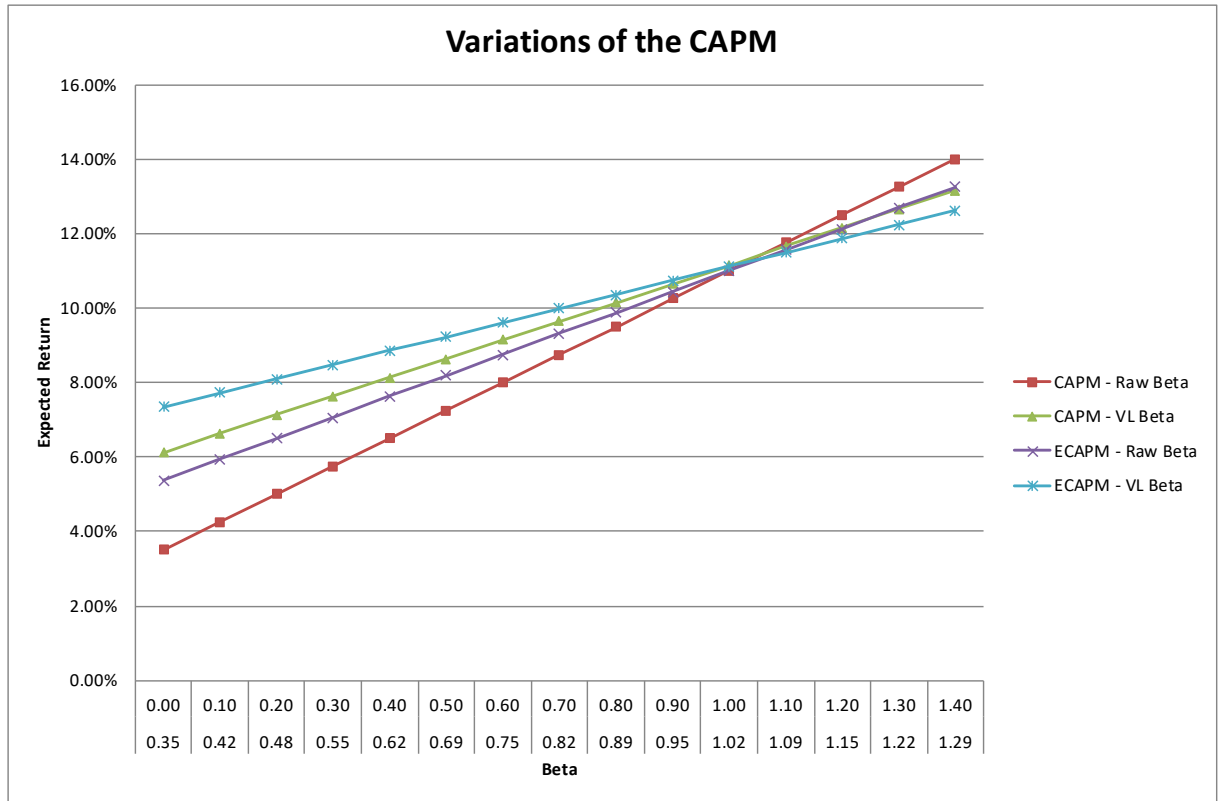
1           The end result of using adjusted betas in the ECAPM is an expected return line  
2 that has been flattened by two adjustments meaning the vertical intercept has been  
3 raised twice and the security market line has been flattened twice: once through the  
4 adjustments *Value Line* made to the raw beta and again by weighting the risk-adjusted  
5 market risk premium as Ms. Bulkley has done.

6           In addition to the many adjustments employed by Ms. Bulkley, she further  
7 increases the intercept and flattens the security market line by using projected  
8 long-term Treasury yields.

9   **Q    CAN YOU DEMONSTRATE THE EFFECT VARIOUS ADJUSTMENTS SUCH AS**  
10 **VALUE LINE BETAS AND THE ECAPM HAVE ON THE SECURITY MARKET LINE?**

11  **A**    Yes. The ECAPM with adjusted betas has the effect of increasing CAPM return  
12 estimates for companies with betas less than 1 and decreasing the CAPM return  
13 estimates for companies with betas greater than 1. I have modeled the expected return  
14 line resulting from the application of the various forms of the CAPM/ECAPM below in  
15 Figure CCW-1R.

**FIGURE CCW-1R**



1            Along the horizontal axis in Figure CCW-1R above, I have provided the raw  
 2            unadjusted beta (top row) and the corresponding adjusted *Value Line* beta (bottom  
 3            row). As shown in Figure CCW-1R above, the CAPM using a *Value Line* beta  
 4            compared to the CAPM using an unadjusted beta shows that the *Value Line* beta raises  
 5            the intercept point and flattens the slope of the security market line. As shown in the  
 6            figure above, the two variations with the most similar slope are the CAPM with the  
 7            *Value Line* beta, and the ECAPM with a raw beta.

8            This evidence shows that the ECAPM adjustment has a very similar impact on  
 9            the expected return line as a *Value Line* beta. Another observation that can be made  
 10           from the figure above is the magnifying effect that the ECAPM using a *Value Line* beta  
 11           has on raising the vertical intercept and flattening the slope relative to all other  
 12           variations. There is simply no legitimate basis to use an adjusted beta within an

1 ECAPM because it unjustifiably alters the security market line and materially inflates a  
2 CAPM return for a company with a beta less than 1.

3 **Q IN YOUR EXPERIENCE, IS MS. BULKLEY’S PROPOSED USE OF AN ADJUSTED**  
4 **BETA IN AN ECAPM STUDY WIDELY ACCEPTED IN REGULATED UTILITY RATE**  
5 **PROCEEDINGS SUCH AS THIS?**

6 A No. In my experience, regulatory commissions generally disregard the use of the  
7 ECAPM, particularly when an adjusted beta is used in the model. For example, the  
8 Illinois Commerce Commission has stated the following regarding the ECAPM:

9 The Commission cannot recall a proceeding in which it relied upon the  
10 ECAPM in establishing the cost of common equity for a utility. In the  
11 instant proceeding, the record supports a finding that use of adjusted  
12 betas in the ECAPM is inappropriate. As Staff witness Ms. Freetly  
13 explained, by using adjusted betas she already effectively transformed  
14 her Traditional CAPM into an ECAPM. Therefore, including an  
15 additional beta adjustment in the ECAPM model would result in inflated  
16 estimates of the samples’ cost of common equity.<sup>8</sup>

17 Similarly, the California Public Utilities Commission has stated “We are not  
18 persuaded that ECAPM produces a result that should be considered. Electric utilities  
19 in general have low betas. Adjusting betas upward guarantees a higher ROE.”<sup>9</sup>

20 Therefore, the Commission should reject Ms. Bulkley’s ECAPM, which as  
21 described above is based on adjusted beta estimates.

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<sup>8</sup>Illinois-American Water Company, ICC Order Docket No. 11-0767, at 109 September 19, 2012).

<sup>9</sup><https://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M344/K961/344961040.PDF>

1 **D. Ms. Bulkley's Bond Yield Risk Premium ("BYRP")**

2 **Q PLEASE DESCRIBE MS. BULKLEY'S BYRP METHODOLOGY.**

3 A As shown on her Schedule AEB-D2, Attachment 7, Ms. Bulkley constructs a risk  
4 premium return on equity estimate based on the premise that equity risk premiums are  
5 inversely related to interest rates. She estimates the average electric equity risk  
6 premiums of approximately 5.38% over the period January 1980 through June 2024.  
7 She performs a linear regression using the 30-Year Treasury yield as the independent  
8 variable (x-axis) and the risk premium as the dependent variable (y-axis). This model  
9 produces a regression formula, which she applies by inputting the current, near-term,  
10 and long-term projected 30-year Treasury bond yields of 4.66%, 4.40%, and 4.30%,  
11 respectively. The resulting expected equity risk premiums based on these inputs are  
12 5.96%, 6.07%, and 6.11%, respectively. She then adds these estimated risk premiums  
13 to their corresponding levels of interest rates to produce electric return on equity  
14 estimates of 10.62%, 10.47%, and 10.41%, respectively.

15 **Q IS MS. BULKLEY'S BYRP METHODOLOGY REASONABLE?**

16 A No. As an initial matter, even though her analysis is predicated on the authorized ROEs  
17 for electric utilities as the starting point, the results exceed the highest ROE awarded  
18 to any electric utility in early 2024. Notwithstanding that observation, my main concern  
19 with Ms. Bulkley's BYRP analysis is that her estimated equity risk premium is  
20 significantly overstated. For example, I incorporated the long-term average equity risk  
21 premium of 5.70% over long-term Treasury yields. This compares to the 2023 equity  
22 risk premium of 5.50%. In a report issued in 2024, Regulatory Research Associates (a  
23 division of S&P Global) discussed the equity risk premium, as measured by the  
24 authorized ROE spread over bond yields as follows:

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1                   However, with the uptick in interest rates since 2020, the spread has  
2                   begun to narrow, falling to around 550 basis points in 2023. With the  
3                   myriad factors putting upward pressure on customer bills, the spread  
4                   may continue to narrow as regulators may become more reluctant to  
5                   raise authorized returns.<sup>10</sup>

6                   As indicated on Schedule CCW-12 attached to my direct testimony, the average  
7                   Treasury yield in 2023 was 4.09%. As discussed in my direct testimony, and shown  
8                   on my Schedule CCW-13, a recent six month 30-year Treasury yield was 4.22%. Ms.  
9                   Bulkley assumed 30-year Treasury yields in the range of 4.30% to 4.50%. In order to  
10                  be consistent with Ms. Bulkley's inverse relationship hypothesis, the current equity risk  
11                  premium must be lower than 5.50% since interest rates have increased relative to 2023.  
12                  However, Ms. Bulkley's estimated equity risk premiums range from 5.96% to 6.11%,  
13                  representing an increase 46 to 61 basis points relative to the 2023 equity risk premium  
14                  noted Regulatory Research Associates. Therefore, Ms. Bulkley's BYRP analysis  
15                  should be given little weight.

16   **Q       HAVE YOU REVIEWED THE 2024 EQUITY RISK PREMIUM FOR ELECTRIC**  
17   **UTILITIES?**

18   **A**Yes, I have. In 2024 the average authorized ROE for electric utilities was approximately  
19                  9.78% while the average 30-year Treasury bond yield was 4.41%. This indicates that  
20                  the realized equity risk premium for 2024 is approximately 5.37%, or 59 basis points  
21                  lower than Ms. Bulkley's lowest equity risk premium estimate and 74 basis points lower  
22                  than her highest equity risk premium estimate. Notably, despite her analysis being  
23                  based on authorized ROE levels for electric utilities, the average of her BYRP analysis  
24                  is equal to the highest authorized ROE in all of 2024.

---

<sup>10</sup>RRA, Major energy rate case decisions in the US January-December 2023 Quarterly update on decided rate cases, February 6, 2024. (emphasis added).



1 Q DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

2 A Yes, it does.