

Exhibit No.: _____
Issue(s): Rate of Return/Capital Structure
Witness/Type of Exhibit: Murray/Direct
Sponsoring Party: Public Counsel
Case No.: ER-2024-0319

DIRECT TESTIMONY

OF

DAVID MURRAY

Submitted on Behalf of the Office of the Public Counsel

**UNION ELECTRIC COMPANY
D/B/A AMEREN MISSOURI**

CASE NO. ER-2024-0319

** _____ **
Denotes Confidential Information that has been redacted.

The information that is redacted in Public Counsel witness David Murray's direct testimony is redacted because another party has identified that information to be confidential in response to a discovery request. Rule 20 CSR 4240-2.135(5)(A).

December 3, 2024

PUBLIC

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DIRECT TESTIMONY
OF
DAVID MURRAY
UNION ELECTRIC COMPANY d/b/a AMEREN MISSOURI
FILE NO. ER-2024-0319

1 **Q. Please state your name and business address.**

2 A. My name is David Murray, and my business address is P.O. Box 2230, Jefferson City,
3 Missouri 65102.

4 **Q. By whom are you employed and in what capacity?**

5 A. I am employed by the Missouri Office of the Public Counsel (“OPC”) as a Utility
6 Regulatory Manager.

7 **Q. On whose behalf are you testifying?**

8 A. I am testifying on the behalf of the OPC.

9 **Q. What is the purpose of your testimony?**

10 A. To recommend a fair and reasonable rate of return (“ROR”) for purposes of setting Ameren
11 Missouri’s revenue requirement for its regulated electric utility operations.

12 **Q. What experience, knowledge and education qualify you to sponsor ROR testimony in
13 this case?**

14 A. Please see the attached Schedule DM-D-1 for my qualifications as well as a summary of
15 the cases in which I have sponsored testimony on ROR and other financial issues.

16 **Q. What aspects of ROR will you address?**

17 A. I will address a fair and reasonable allowed return on common equity (“ROE”) and a fair
18 and reasonable capital structure.

1 **Q. What is your main conclusion after analyzing Ameren Missouri’s specific financial**
2 **situation as well as the current state of capital markets?**

3 A. Ameren Missouri’s allowed ROE should be set at 9.50%, based on my recommended
4 authorized ROE range of 9.00% to 9.50%. My recommended range reflects the following
5 considerations:

- 6 • The electric utility industry’s COE is in the range of 7.5% to 8.5%;
- 7 • The electric utility industry’s current price-to-earnings ratios are trading
8 similar to 2015 levels, when the Commission deemed 9.5% authorized
9 ROEs as fair and reasonable for Ameren Missouri and Evergy Metro
10 (“Metro”); and
- 11 • Under the Commission’s typical zone of reasonableness (“ZOR”) standard,
12 a recommended ROE of 8.68% to 10.68% is generally considered
13 reasonable.

14 My recommended ROE should be applied to a common equity ratio of 42%, which is the
15 mid-point of Ameren Corp’s recent actual consolidated common equity ratios of
16 approximately 41% to 43%, after excluding short-term debt. A 42% common equity ratio
17 is also generally consistent with Ameren Corp’s typical targeted common equity ratio.

18 **Q. Before you discuss the details supporting your analysis, would you summarize the**
19 **rationales for your conclusions?**

20 A. Yes. Although capital structure and the allowed ROE are interrelated as to the ultimate
21 impact on Ameren Missouri’s revenue requirement, I will first briefly explain my rationale
22 for each component, separately.

23 I recommend the Commission set Ameren Missouri’s allowed ROE for its electric utility
24 operations at 9.50% based on a range of 9.00% to 9.50%. During most of 2020 to 2022,
25 utility stocks had not traded consistent with their typical negative correlation to changes in
26 long-term bond yields. However, since the end of 2022, utility stock valuation levels
27 resumed their typical negative correlation to interest rates with utilities significantly
28 underperforming the S&P 500 through mid-2024. However, for the period July since July

1 1, 2024 through November 22, 2024, electric utility stocks in general and Ameren Corp's
2 stock specifically, have increased significantly, outperforming the S&P 500 by 10.95
3 percentage points and 23.56 percentage points, respectively. These events explain my
4 lower cost of equity estimates compared to my estimates in the recent Evergy Missouri
5 West ("EMW") rate case, Case No. ER-2024-0189, in which my COE estimates were
6 based on average stock prices for the five-months ending, May 31, 2024. Based on my
7 application of several cost of equity methods and corroborating information from investors,
8 I estimate the COE for regulated electric utilities to be in the approximate range of 7.5% to
9 8.5%, which is about 0.75% higher than my estimate of 7% to 7.5% in Ameren Missouri's
10 2022 rate case.

11 I further recommend that the Commission set Ameren Missouri's authorized common
12 equity ratio at 42% rather than the approximate 52% ratio Ameren Corp targets for Ameren
13 Missouri. Since Ameren Missouri's 2019 rate case, Ameren Corp has consistently
14 increased the amount and proportion of holding company debt compared to its consolidated
15 debt levels. Ameren Corp's utilization of more holding company debt allows it to minimize
16 the dilution of earnings to individual common equity shares from anticipated increased
17 aggregate earnings from its investment in its subsidiaries, including Ameren Missouri.
18 Ameren Corp's ability to minimize dilution by employing such a strategy would be more
19 costly to ratepayers if they are required to pay for a higher-cost capital structure than
20 Ameren Corp deems optimal for its consolidated capital structure. Ameren Missouri's
21 targeted 52% equity ratio for ratemaking purposes is similar to ratemaking targets for
22 Missouri's other large electric utilities, such as EMW, Metro, and The Empire District
23 Electric Company d/b/a Liberty Utilities ("Empire"). Considering investors' sentiments
24 that the Missouri regulatory and legislative environment is becoming more investor
25 friendly, the business risk for utility investments in Missouri is lower. Specifically, as it
26 relates to electric utility companies in Missouri, their business risk declined after they
27 became eligible to elect the investor-friendly ratemaking mechanism referred to as plant in
28 service accounting ("PISA"), which became effective on August 28, 2018.¹ Missouri's

¹ SB 564 resulted in the creation/modification of several sections of Chapter 393 with the primary new subsection being Section 393.1400, RSMo.

1 electric utilities' ability to elect PISA (without specific Commission authority) was
2 extended to 2028 through an amendment to the PISA law in 2023. Additionally, electric
3 utilities now have express legal authority to recover energy transition costs and qualified
4 extraordinary costs by securitizing such costs (providing an immediate lump sum recovery
5 of such costs via selling rights to a stream of cash flows to purchasers of the securitized
6 bonds). Ameren Missouri has taken advantage of both mechanisms. Ameren Missouri's
7 reduced business risk allows for greater debt capacity (*i.e.* financial risk), but instead of
8 Ameren Corp allowing Ameren Missouri to use more debt in its capital structure, it is
9 issuing more holding company debt.

10 **FAIR RETURN ON COMMON EQUITY**

11 **Q. What is the most often cited basis for determining a fair and reasonable ROE for**
12 **purposes of setting utility rates?**

13 A. The following principles of the *Hope*² and *Bluefield*³ Supreme Court of the United States
14 cases are often cited as criteria in setting a fair and reasonable ROE for purposes of utility
15 ratemaking:

- 16 1. Comparable returns for similar risk;
- 17 2. Financial integrity/maintain credit; and
- 18 3. Capital attraction.

19 The *Hope* (1943) and *Bluefield* (1923) principles were established well before the advent
20 of modern cost of equity methods, such as the discounted cash flow ("DCF") method and
21 the Capital Asset Pricing Model ("CAPM"). Therefore, while setting ROEs based on the
22 COE has generally been considered consistent with the *Hope* and *Bluefield* principles, other
23 factors, such as other jurisdictions' authorized ROEs have been cited by this Commission
24 as a relevant factor it should consider. The authorized ROE is a regulatory ratemaking
25 concept that quantifies the amount of net income allowed in the revenue requirement. The
26 COE is a market-based concept that quantifies an investors' required return on his/her

² *Federal Power Commission v. Hope Natural Gas Co.*, 320 U.S. 591 (1943).

³ *Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia*, 262 U.S. 679 (1923).

1 common equity investment. Because ROEs have generally been set in the 9% range, while
2 an overwhelming amount of evidence demonstrates that investors' required returns (*i.e.*
3 COE) on utility equity investments have typically been much lower, I correctly
4 differentiate between allowed ROEs and the COE in my analysis and recommendation.

5 **Q. How did you determine the approach you would take to estimate a fair and reasonable**
6 **allowed ROE for purposes of this case?**

7 A. I reconciled the principles established in *Hope* and *Bluefield* with modern financial models
8 used to estimate the COE.

9 Considering these principles, I first estimate Ameren Missouri's current COE and then
10 compare my current COE estimates to those I estimated in recent rate cases to determine if
11 there has been a fundamental change in the cost of capital. My analysis also includes
12 consideration of other recently authorized ROEs with specific consideration given to
13 Ameren Illinois' 8.72% authorized ROE in December 2023 for its electric utility
14 operations.⁴

15 **Q. Based on your analysis, what is your estimate of Ameren Missouri's COE?**

16 A. Ameren Missouri's COE is in the range of 7.5% to 8.5%.

17 **Q. Based on your analysis and awareness of capital market conditions, investor**
18 **expectations and recent average allowed ROEs for electric utilities, what do you**
19 **consider to be a fair and reasonable allowed ROE for Ameren Missouri's electric**
20 **utility operations?**

21 A. I consider 9.00% to 9.50% to be a reasonable range with my point recommendation at
22 9.50%. My recommended allowed ROE is within the range of the Commission's typically
23 defined ZOR range of 100 basis points above and below recent average authorized ROEs,
24 which are approximately 9.68%⁵ (*i.e.* 8.68% to 10.68%). After considering my COE
25 estimates, the Commission's authorized ROE of approximately 9.5% for Missouri's
26 electric utilities for rate cases decided in 2015, and authorized ROEs for Ameren Corp's

⁴ Docket No. D-23-0082.

⁵ RRA Major Rate Case Decisions Quarterly Updates, October 30, 2024.

1 Illinois electric utility operations, I recommend the Commission authorize Ameren
2 Missouri a 9.5% ROE for purposes of setting its authorized ROR.

3 **Q. Was an ROE and capital structure specified in Ameren Missouri’s last rate case, Case**
4 **No. ER-2022-0337?**

5 A. No.

6 **Q. How did you inform yourself for determining the best methods and approaches to use**
7 **to estimate Ameren Missouri’s COE?**

8 A. I reviewed equity investment research reports covering Ameren Corp and the utility
9 industry since at least October 31, 2023. Additionally, I generally considered the
10 information I had reviewed in past Ameren Missouri rate cases. This information provided
11 me insight as to the types of methods/models typically used by investors to determine fair
12 prices to pay for utility stocks. Consequently, I decided the best approach to estimate
13 Ameren Missouri’s COE was to perform a COE analysis on its parent company, Ameren
14 Corp, in conjunction with a COE analysis on a proxy group of electric utility companies.

15 **Q. What models did you use to estimate Ameren Missouri’s COE?**

16 A. I used a multi-stage discounted cash flow (“DCF”) method, with specific emphasis on
17 consensus analysts’ estimated dividends and the modeled growth of dividends. A DCF
18 method that focuses on dividends as the proxy for cash flow is more precisely defined as
19 the dividend discount model (“DDM”). I also applied the Capital Asset Pricing Model
20 (“CAPM”) to both Ameren Corp and the proxy groups. Finally, I performed simple and
21 logical reasonableness checks of my COE estimates. These reasonableness checks
22 recognize the basic characteristics of utility stocks, mainly that the investment community
23 perceives them as yield/income investments, which implies the COE should not be much
24 higher than their own bond yields. One such reasonableness check is a straight-forward
25 bond-yield-plus-risk-premium (“BYPRP”) method included in the Chartered Financial
26 Analyst (“CFA”) Program curriculum.⁶

⁶ 2021 CFA Program – Level II Refresher Reading, Equity Valuation, p. 35.

1 **Q. Was your approach substantially the same as you employed in Ameren Missouri's**
2 **2022 rate case, as well as other recent cases involving Missouri's electric and gas**
3 **utility companies?**

4 A. Yes.

5 **Q. Can you describe current capital market conditions as it relates to the electric utility**
6 **industry in general and Ameren Corp specifically before you discuss the details of**
7 **how you specifically estimated Ameren Missouri's COE?**

8 A. Yes. This information should help provide some context as to the current state of utility
9 capital markets. Considering the rapid and steep increase in interest rates from 2022 to
10 2023, which caused utility debt costs to increase dramatically since 2020 to 2021, it is
11 important to understand the context of authorized ROEs versus the COE over a longer
12 period than just the last couple of years. It is for this reason that I will analyze and compare
13 utility stock valuations and interest rates for most of the period since the financial crises
14 and recession around 2008/2009.

15 **Q. What ROE had you recently recommended the Commission authorize for its large**
16 **electric utilities?**

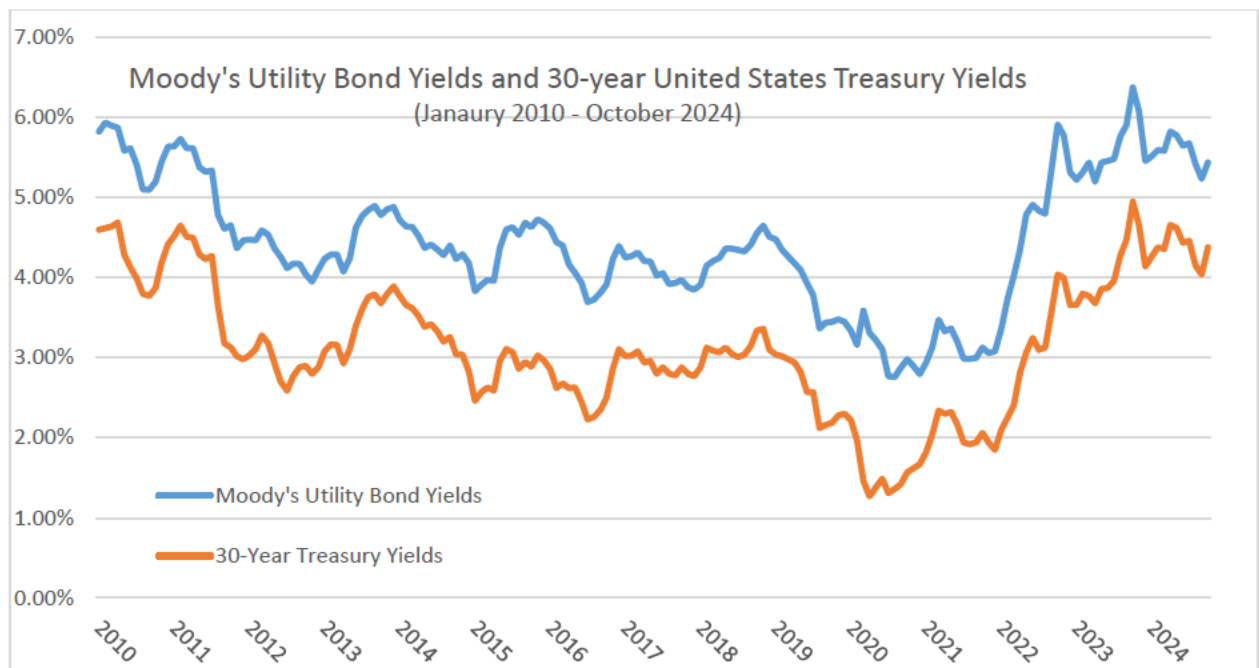
17 A. I had consistently recommended the Commission reduce its electric utility authorized ROE
18 from around 9.5% to as low as 9.0% in electric utility rate cases since as recently as 2022.
19 The Commission's last authorized ROE for Ameren Missouri was 9.53% in the 2014 rate
20 case, Case No. ER-2014-0258. The Commission's last litigated authorized ROE for a
21 Missouri electric utility was 9.25% for Empire in Case No. ER-2019-0374. In electric
22 utility rate cases prior to 2024, I had recommended the Commission further reduce
23 authorized ROEs to 9.0%. Although the COE has varied over much of the period since
24 2014, it had exhibited a declining trend until 2022. Therefore, I had consistently urged the
25 Commission to lower the authorized ROE for Missouri's electric utilities by at least 25
26 basis points to recognize the systemic decline in the cost of capital over the period.

1 **Q. Can you describe and illustrate recent and long-term changes in long-term bond**
2 **yields?**

3 A. Yes, long-term bond yields have increased dramatically over the last couple of years after
4 declining to historically low levels during the Covid-19 pandemic (2020 – 2021). In fact,
5 during the Fall of 2023, investment grade utility bond yields and long-term United States
6 Treasury (“UST”) bond yields increased to their highest levels since 2010.

7 Some considered the early stages of lower long-term interest rates in the first half of the
8 past decade to be anomalous because of the Federal Reserve Bank’s (“Fed”) quantitative
9 easing (“QE”) programs⁷ through October 2014. However, for the last half of the past
10 decade, long-term interest rates continued an overall declining trend, until they reached all-
11 time lows in 2020 and 2021. However, as I previously described, long-term rates have
12 since increased dramatically, peaking in October 2023.

13 The below graph shows long-term bond yields since January 1, 2010.



14

⁷ QE involved three rounds of the Fed’s direct intervention in bond markets beyond just lowering the Fed Funds rate. The Fed’s QE programs had the express intent of reducing long-term interest rates.

1 As can be seen in the graph, average utility long-term bond yields had dropped to modern
2 all-time lows in the latter half of 2020 - levels not experienced since the late 1940s and
3 early 1950s. However, the average yield on the Moody's Public Utility Bond index had
4 approximately doubled between early 2022 and October 2023, before declining to around
5 5.25% to 5.5%. After dropping to an all-time low yield of 1.27% in April 2020, 30-year
6 United States Treasury ("UST") bonds increased to approximately 5% in October 2023
7 before declining to approximately 4% to 4.25% in recent months.

8 Although more simplistic COE methods may imply that the COE for utilities whipsawed
9 along with bond yields, utility valuation levels over this period do not support this notion.
10 As I will explain in more detail later in my testimony, the post Covid-19 economic and
11 capital market conditions have been atypical. This is likely a consequence of both the
12 Fed's and U.S. Congress's massive interventions through monetary and fiscal policies
13 during the Covid-19 pandemic.

14 **Q. Why is it typically important to evaluate trends in long-term interest rates when**
15 **evaluating the utility industry's COE?**

16 A. The investment community typically regards utility stocks as bond proxies/pseudo bonds,
17 meaning that if long-term bond yields decline, then this typically causes regulated utility
18 stock prices to increase. ** _____
19 _____ **⁸ Although investors' total returns in
20 utility stock investments do include some capital gains, because of the slow, steady growth
21 in earnings, utility companies have typically distributed approximately 2/3 of their earnings
22 as dividends to shareholders, causing utility stocks to be characterized as yield investments.
23 Therefore, changes in utility stock valuation levels have historically had a strong inverse
24 correlation to changes in bond yields, *i.e.* as bond yields decline, utility stock prices
25 increase.

⁸ Ameren Corp Dividend Policy Considerations, Finance Committee, February 2021, pp. 3-21.

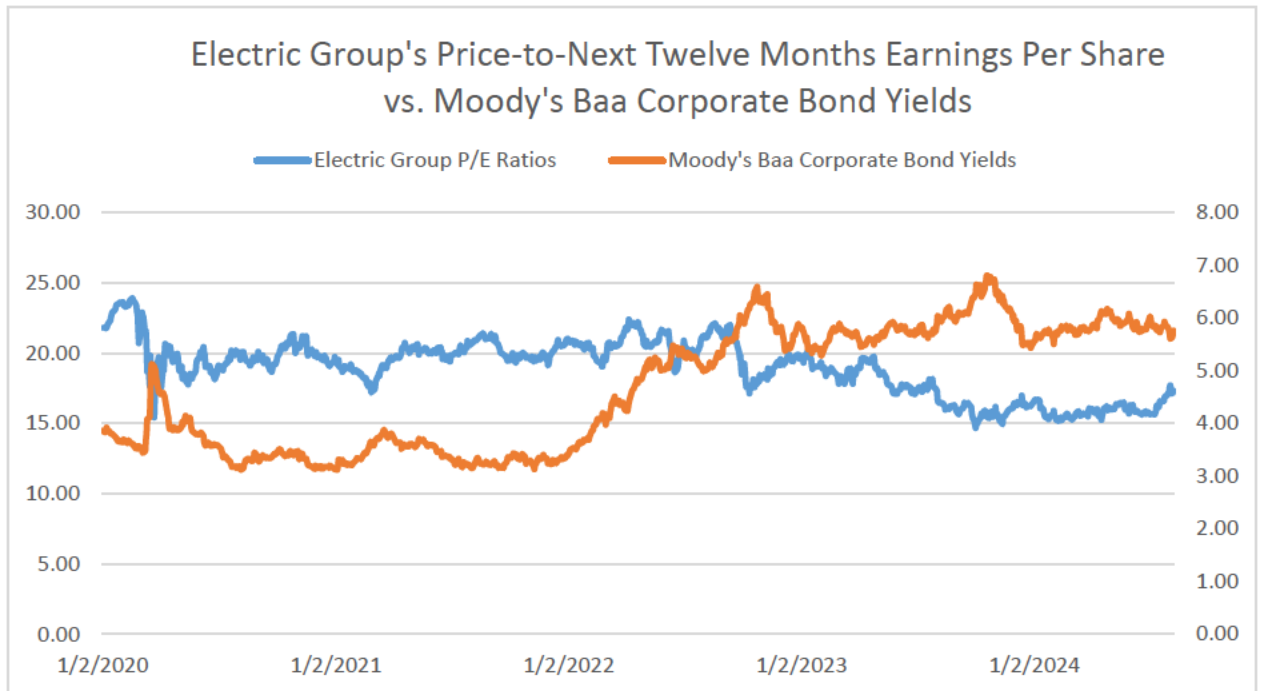
1 **Q. From April 2020 through August 2022, did utility stock valuations and bond yields**
2 **provide traditional and consistent signals about utilities' cost of capital?**

3 A. No. Following drastic and significant intervention by the Fed in monetary policy and the
4 UST in fiscal policy, in reaction to Covid-19 and its associated mitigation measures, the
5 yield-to-maturity ("YTM") on utility and corporate bonds traded at 70-to-80-year lows.
6 However, at the same time, broader utility stocks (mainly local natural gas distribution
7 companies ("LDC") and electric utility stocks) underperformed the S&P 500. The same
8 atypical trading pattern occurred as long-term bond yields began a dramatic increase in
9 2022. Utility stocks significantly outperformed the S&P 500 on a relative basis, despite
10 long-term yields increasing through much of 2022. The increase in yields caused the S&P
11 500 to contract significantly, while causing only a slight decline in utility stock prices,
12 allowing them to maintain similar P/E ratios as before the rapid increase in long-term
13 interest rates.

14 Consequently, while the utility industry's debt costs fluctuated along with the macro
15 changes in interest rates, the same was not true for the utility industry's cost of equity. For
16 example, as I will discuss later in my testimony, use of the CAPM with standard
17 assumptions, implied that the utility industry's COE fluctuated along with long-term bond
18 yields since 2020, but such indications were not corroborated by utility equity market
19 valuations.

20 **Q. What about since August 2022?**

21 A. Starting around mid-September 2022, electric utility P/E ratios resumed their more typical
22 inverse correlation with long-term yields, as illustrated in the following chart:



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During the all-time low bond yield environment, the utility industry was able to take advantage of these extremely low debt capital costs. For example, on October 9, 2020, Ameren Missouri issued 30-year, \$550 million bonds at an annual coupon rate of only 2.625%. However, during this period, utility equity valuation levels did not increase in response to the decline in bond yields, which implied investors did not expect extremely low interest rates to be sustained. Similarly, as bond yields increased significantly in 2022, utility equity valuation levels did not contract as typically expected – perhaps because investors understood that the extremely low cost of debt during 2020 to 2021 was not likely sustainable. To illustrate the significant increase in utility bond yields, Ameren Missouri issued 30-year, \$500 million bonds on March 13, 2023, at a coupon of 5.45%, or slightly over double the cost from just two and a half years prior.

13

Q. What are recent implied yields on Ameren Missouri’s long-term debt?

14

A. As of November 12, 2024, Ameren Missouri’s 5.45%, 30-year first mortgage bond traded at a yield-to-maturity (“YTM”) of approximately 5.51% and Ameren Missouri’s 2.625%, 30-year first mortgage bond traded at a YTM of approximately 5.4%. Therefore, the cost of long-term debt capital has not changed significantly since 2023.

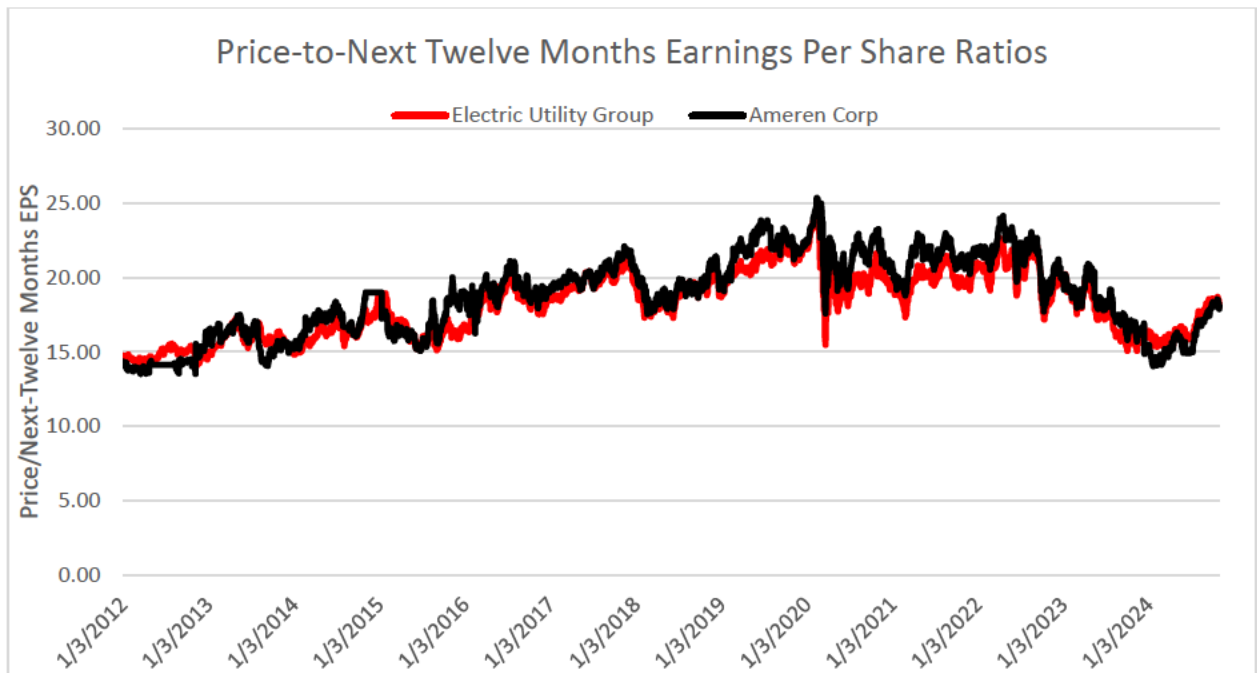
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17

1 **Q. Would you graphically illustrate Ameren Corp’s P/E ratios to those of an electric**
2 **utility industry proxy group⁹ from 2012 to the present?**

3 A. Yes. See the below graph:

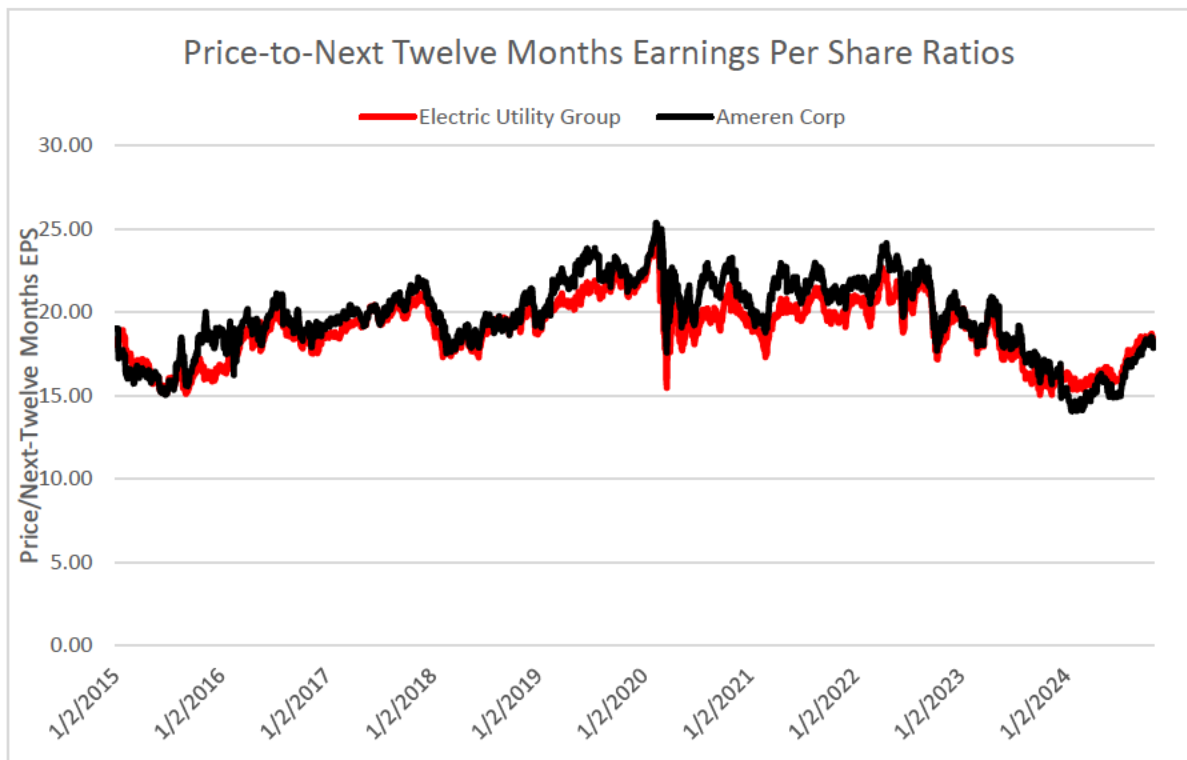


4
5 As can be seen in the above graph, for the most part, Ameren Corp’s P/E ratio has typically
6 traded in line with, or at times a premium, to those of other electric utility companies.
7 However, the Illinois Commerce Commission’s (“ICC”) unexpected lower rate increase
8 and initial rejection of Ameren Illinois’ multi-year grid plan in December 2023 caused
9 Ameren Corp’s P/E ratio to decline below that of the industry’s P/E ratio at the end of 2023
10 into early 2024.

⁹ Unless otherwise specified, the proxy group I use to represent the electric utility industry are the following companies: Alliant Energy Corporation, American Electric Power Company, CMS Energy Corporation, DTE Energy Company, IDACORP, OGE Energy Corp, Pinnacle West Capital Corporation, Portland General Electric Company, The Southern Company, WEC Energy Group, and Xcel Energy Inc. These companies met screening criteria I used in Ameren Missouri’s 2012 or 2014 rate cases, Case Nos. ER-2012-0166 and ER-2014-0258, respectively.

1 **Q. Would you similarly illustrate a comparison of the electric utility industry’s P/E ratios**
2 **to those of Ameren Corp since 2015, when the Commission first deemed a 9.5% ROE**
3 **fair and reasonable for Missouri’s electric utility companies?**

4 **A.** Yes. The chart follows:



5
6 As is evident from the above chart, during 2015, the electric utility industry generally
7 traded at a P/E ratio in the 15x to 17x range with a brief period at the beginning of 2015 at
8 close to 19x. Ameren Corp’s P/E ratio traded in-line with the electric utility industry except
9 for at the end of 2015, when it traded at 19x. Prior to the market disruptions coinciding
10 with the onset of the Covid-19 pandemic, both Ameren Corp’s and the electric utility
11 industry’s P/E ratios hit all-time highs of ~25x and ~24x, respectively. At that time, which
12 was consistent with the period of Ameren Missouri’s 2019 rate case, Case No. ER-2019-
13 0355, I estimated Ameren Missouri’s COE to be as low as in the 5.5% to 6.5% range, which
14 is logically consistent with the extremely high valuation ratios of that time.

15 Subsequent to the acute capital market instability at the onset of Covid-19, which was
16 quickly addressed by the Fed and the UST, the electric utility industry’s and Ameren

1 Corp's P/E ratios stabilized during the remainder of 2020. Although long-term interest
2 rates (as measured by long-term corporate bond yields and UST bonds) plummeted from
3 the spring of 2020 through the end of 2021, Ameren Corp's and the electric utility
4 industry's P/E ratios did not expand as is typical when long-term bond yields decline.

5 **Q. What are utility equity investors' reactions to the recent interest rate environment?**

6 A. Based solely on interpreting/evaluating utility stock price changes as compared to that of
7 the broader market, stronger economic conditions and optimism about potential
8 productivity benefits from artificial intelligence have been causing the S&P 500, especially
9 constituents in the information technology sector, to significantly outperform the utilities
10 sector. Until 2022, most utility equity analysts had projected that low interest rates justified
11 a continued reduction of authorized ROEs. However, given the fact that long-term bond
12 yields have remained higher since late 2022, now investors expect regulators to at least
13 hold the line on awarded ROEs.

14 **Q. Why would investors expect utility commissions to hold the line on authorized ROEs
15 if the cost of capital has increased?**

16 A. Because investors recognize that utility commissions did not reduce authorized ROEs as
17 much as was justified when the cost of capital was declining. Barclays recently indicated
18 the following about authorized returns while the cost of capital was declining from 2010
19 to the early 2020s:

20 **High Returns Unlikely as ROEs Sticky While Rates Were at Decade Lows**

21
22 Simplistically, from 2010 to early 2020s long term risk free yields
23 have only declined, while utility ROEs remained steady at an
24 average 9.8% authorized rate on the electric side. Utilities were
25 arguably over-earning during this timeframe in our view. We
26 believe over a long term (10yr+) time horizon there should be a case
27 for higher ROEs if risk free yields remain elevated or move higher,
28 but we see it unlikely that regulated ROEs return to 12%+ levels
29 anytime soon. This likely leads to an extended CoC [cost of capital]
30 crunch for the utility industry, which will pressure management
31 teams' abilities to raise capex budgets materially in the five-year

1 window. Please see our additional work below highlighting the CoC
2 crunch.¹⁰

3 **Q. What COE have equity analysts been using to estimate a fair price to pay for Ameren**
4 **Corp’s stock in today’s higher-interest rate environment?**

5 A. Wells Fargo applies a 7.5% COE to Ameren Corp’s estimated dividends in its multi-stage
6 dividend discount model (“DDM”) analysis (a DDM is the same model as the DCF in
7 utility ROR analysis).¹¹ Morningstar also applied a COE of 7.5% for purposes of its fair
8 value estimate for Ameren Corp’s stock.¹²

9 **Q. Can utilities still create value for their shareholders at a narrower spread between**
10 **the COE and allowed ROEs?**

11 A. Yes. Even at a narrower spread, as long as a company has the opportunity to earn more
12 than its cost of capital, it will create value above the initial book value investment (*i.e.*
13 investment in rate base for utility companies). The ratemaking principle of setting an
14 authorized ROE at or near parity with the COE is that utility companies will only invest in
15 projects that are expected to be economically efficient based on the merits of the projects
16 rather than simply being authorized a return higher than the cost of capital (or a jurisdiction
17 that authorizes a higher return than another jurisdiction). Morningstar’s discounted cash
18 flow analysis recognizes this principle should at least hold over the long-term. Specifically,
19 as it relates to estimating growth in cash flows in the perpetuity stage, Morningstar states
20 the following:

21 Once a company’s marginal ROIC [Return on Invested Capital] hits
22 its cost of capital, we calculate a continuing value, using a standard
23 perpetuity formula. At perpetuity, we assume that any growth or
24 decline or investment in the business neither creates nor destroys
25 value and that any new investment provides a return in line with
26 estimated WACC.¹³

¹⁰ Nicholas Campanella, et. al., “U.S. Power & Utilities: Initiating Coverage: Down but Not Out,” Barclays, August 22, 2023, p. 23.

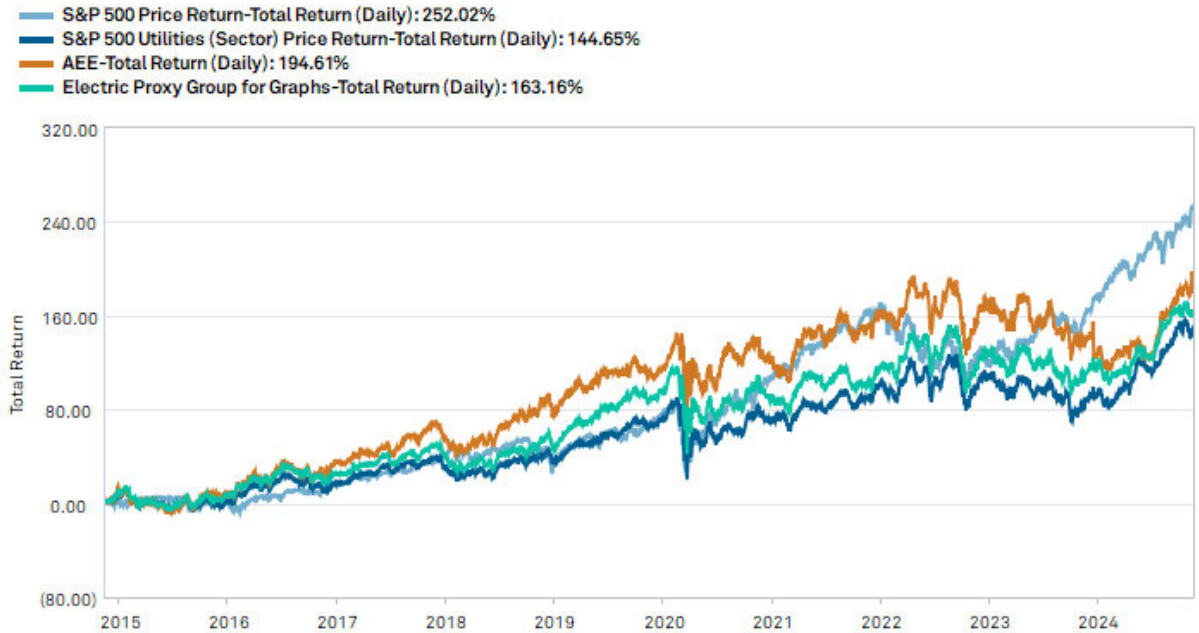
¹¹ Neil Kalton, et. al., “Takeaways from Investor Meetings—Reiterate Overweight,” Wells Fargo, September 20, 2024.

¹² Andrew Bischof, “Ameren Earnings: Transmission Opportunities in Midwest Could Prove Meaningful in Long Term,” Morningstar, November 7, 2024.

¹³ *Id.*

1 **Q. Would you show how Ameren Corp’s shareholder returns have compared to the S&P**
2 **500, the utilities in the S&P 500, and a representative electric utility proxy group**
3 **for the last ten years?**

4 **A.** Yes. See the below chart:

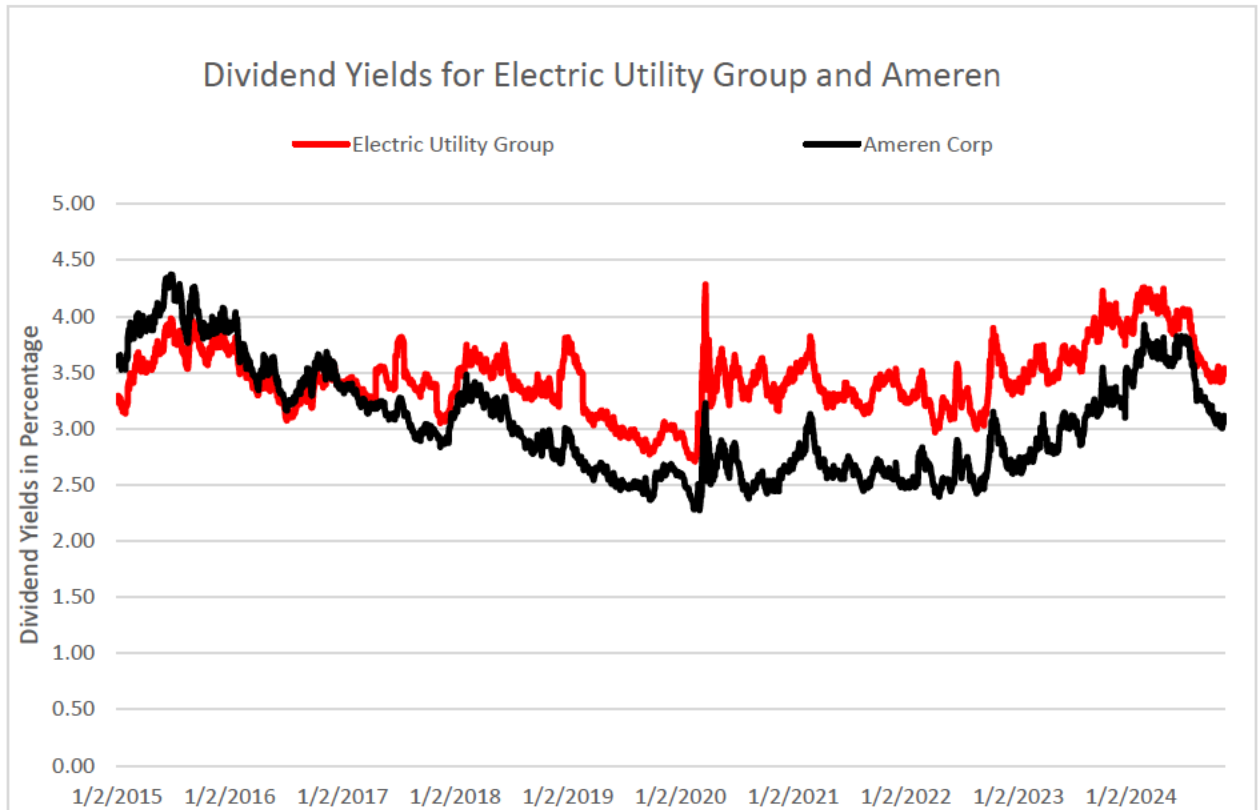


5
6 The key takeaways from the above chart is the fact that until the pandemic, Ameren Corp
7 and the electric utility industry achieved higher total returns than the S&P 500 despite the
8 fact that they typically do not achieve as high a proportion of their total returns from capital
9 gains as compared to growth stocks. Utilities’ high total returns over this period were
10 largely due to the sustained long-term decline in interest rates over this period, which also
11 caused higher capital gains for bond investments. Being that bond coupons are typically
12 fixed, this clearly demonstrated that yield investments achieved capital gains mainly due
13 to a decline in long-term yields. However, post the pandemic, and, more importantly, post
14 the response of the Federal Reserve and the U.S. Congress to support the economy during
15 the pandemic, aggressive stimulus measures caused the S&P 500 to significantly
16 outperform the electric utility industry. This is largely attributed to the Fed providing a
17 tremendous amount of capital market support, which caused negative real bond yields
18 during much of this period. This had the impact of reducing the discount rates (*i.e.* COE)

1 for the broader markets, which made potential future profits worth more in present value
2 terms. However, becoming concerned about sustained inflationary pressures, the Fed
3 began to aggressively tighten monetary policy, which caused investors to fear a recession
4 in 2023. This explained utility stocks' stronger performance relative to the S&P 500 for
5 much of 2022, despite increases in long-term bond yields.

6 **Q. Would you show the changes to the electric utility industry's and Ameren Corp's**
7 **dividend yields since the Commission authorized Ameren Missouri a 9.53% ROE in**
8 **2015?**

9 **A.** Yes. This chart shows the continuous changes since January 2, 2015.



10
11 As illustrated, Ameren Corp's dividend yield was approximately 3.5% to slightly over 4%
12 during 2015. From the onset of Covid-19 to mid-2023, Ameren Corp's dividend yield has
13 traded in the range of 2.5% to 3%. During the fall of 2023 into early 2024, when long-
14 term bond yields increased, Ameren Corp's dividend yield increased to the 3.5% to 4%

1 range. However, since mid-2024, Ameren Corp's dividend yield steadily declined to
2 around 3% by the end of October 2024.

3 Assuming investors' expectations for Ameren Corp's earnings per share ("EPS") growth,
4 dividends per share ("DPS") growth, and dividend payout ratio remained fairly constant
5 over this period, it would imply that Ameren Corp's COE is lower than it was in 2015 when
6 the Commission authorized Ameren Missouri a 9.53% ROE. However, in 2015 Ameren
7 Corp had a slightly higher dividend payout ratio of around 63% and a less proven growth
8 track record because it had just divested its non-regulated operations in 2013. Therefore,
9 it is also important to observe the changes over time of a broader group of regulated electric
10 utility companies.

11 In early 2015, the electric utility proxy group's dividend yields started in the low 3% area,
12 but then increased to the high 3% area by the end of 2015. Immediately before the onset
13 of Covid-19, electric utility dividend yields were at all-time lows, which was consistent
14 with all-time highs in electric utility P/E ratios. However, subsequent to the early stages
15 of the Covid-19 pandemic, the decline in the electric utility industry's COE has not been
16 as pronounced. From the spring of 2021 through the fall of 2022, electric utility dividend
17 yields traded in a range of 3% to 3.5%, as compared to consistently higher than 3.5% for
18 much of 2015. Consistent with the increase in Ameren Corp's dividend yield during the
19 fall of 2023 into early 2024, the electric utility proxy group's dividend yields also
20 increased, but even higher to above 4%. However, since mid-2024, the electric utility
21 proxy group's dividend yields have declined to levels similar to those in early 2015. This
22 information on its own supports maintaining Ameren Missouri's previously authorized
23 ROE of approximately 9.5%.

1 **COST OF EQUITY METHODS**

2 **Q. Having provided context on recent changes in the utility capital market generally and**
3 **with regard to Ameren Corp specifically, would you explain how you approached**
4 **estimating Ameren Missouri’s COE in this case?**

5 A. Yes. I performed a multi-stage DCF analysis and a CAPM analysis on Ameren Corp and
6 a proxy group of electric utility companies. Then, I tested the reasonableness of my
7 estimates by using simple reasonableness checks, such as the BYPRP method discussed in
8 the CFA Program curriculum.

9 **INVESTOR INSIGHT**

10 **Q. How did you inform yourself as to reasonable and rational inputs for your COE**
11 **approaches?**

12 A. The objective of a ROR witness is to emulate investors’ approaches to analyzing and
13 making investment decisions as it relates to investing in utility stocks. Therefore, I have
14 made it a priority to review, analyze, and understand how equity research analysts estimate
15 fair prices for utility stocks. My analysis has allowed me to test the theory of cost-of-
16 capital estimation in utility ROR testimony, as it compares to practice. I have discovered
17 investment analysts use multi-stage DCF approaches to estimate fundamental values of
18 utility stocks, and/or they use relative valuation techniques that compare a company’s P/E
19 ratios to averages for the industry and/or potentially a more tailored subset of peer
20 companies.

21 In my experience, professional equity (“Wall Street”) analysts project long-term compound
22 annual growth rates (“CAGR”) in EPS to determine whether a company’s P/E ratio
23 deserves a premium or a discount to its peers. Wall Street analysts DO NOT use these
24 estimated long-term CAGRs in EPS for purposes of projecting a perpetual dividend growth
25 rate, as some ROR witnesses suggest. When performing an absolute valuation analysis,
26 such as a DCF/DDM, Wall Street analysts assume rational perpetual growth rates in the
27 2.5% to 3.3% range for electric utility companies. Finally, as I discussed earlier in my
28 testimony, they estimate electric utilities’ COE to be approximately 7.50%.

1 **Q. Is it important to analyze the information these equity research firms rely on to**
2 **determine a fair and reasonable ROE for Ameren Missouri?**

3 A. Yes.

4 **Q. Why?**

5 A. Analyzing this information is important because these Wall Street analysts are the very
6 individuals that underlie various consensus estimates widely considered by investors. ROR
7 witnesses recognize the influence Wall Street analysts have on utility stock prices by the
8 very fact that they use their consensus financial metric forecasts for purposes of estimating
9 the COE.

10 **Q. What equity research firms cover Ameren Corp's stock?**

11 A. According to Ameren Corp's website, the following firms cover its stock: Argus Research
12 Corporation, Bank of America ("BofA"), Barclays, BMO Capital Markets, Evercore ISI,
13 Goldman Sachs, Guggenheim, JP Morgan, KeyBanc Capital Markets ("KeyBanc"),
14 Mizuho, Morgan Stanley, Morningstar Equity Research, UBS, Value Line, Wells Fargo
15 Securities, and Wolfe Research ("Wolfe").¹⁴

16 **Q. Did you review any of these firms' research for purposes of performing your cost of**
17 **equity analysis and preparing your testimony?**

18 A. Yes. I mainly relied on reports Ameren Missouri made available for review in response to
19 Staff Data Request No. 0121. However, over my career I have established relationships
20 with some firms/analysts who have distributed this material to me directly through their
21 email distribution lists. These relationships were borne from my role as a regulator in
22 which many of these analysts seek information related to Missouri's general and specific
23 regulatory issues. I have also interacted with these analysts through my participation in
24 organizations, such as the Society of Utility and Regulatory Analysts ("SURFA").

¹⁴ <https://www.amereninvestors.com/company-info/analyst-coverage/default.aspx>.

1 MULTI-STAGE DCF/DDM

2 **Q. How did you approach the multi-stage DCF/DDM analysis you performed on Ameren**
3 **Corp?**

4 A. Schedule DM-D-2 attached to my testimony illustrates the primary logic and assumptions
5 I used in my multi-stage approach. For the first stage, I used consensus analysts' estimates
6 for dividend per share ("DPS") through 2028. Ameren Corp's consensus dividend payout
7 ratio is projected to be 57.40% in 2028. Ameren Corp's current guidance on its dividend
8 payout ratio is in the range of 55% to 65%.¹⁵ I then modeled an equal percentage change
9 in the annual payout ratio from this period until the terminal year, which is when I assumed
10 that Ameren Corp would converge to a dividend payout ratio necessary to ensure it retains
11 sufficient earnings to sustain the assumed perpetual growth rate of 2.5% to 3.5%.
12 Consequently, both Ameren Corp's DPS and EPS annual growth rates gradually declined
13 to my assumed perpetual sustainable growth rate in the range of 2.5% to 3.5%. Based on
14 a terminal expected ROE of 9.50%, this results in terminal dividend payout ratios in the
15 range of 63.16% (3.5% perpetual growth rate) to 73.68% (2.5% perpetual growth rate).

16 **Q. What is your basis for an assumed terminal ROE of 9.5%?**

17 A. In recent rate cases, I had assumed a terminal ROE of 9.25%, which was generally
18 consistent with terminal ROE assumptions used by Wells Fargo (9.0%) and Evercore ISI
19 (9.25%). However, due to recent increases in long-term bond yields, and the fact that
20 average authorized ROEs generally did not decline to 9% to 9.25% when the cost of capital
21 was at all-time lows, I decided a 9.5% terminal ROE is a more reasonable assumption at
22 this time.

23 **Q. How did you determine the stock price you assumed as the initial cash outflow?**

24 A. I decided to evaluate six-months of average stock prices as well as three-months of average
25 stock prices.

¹⁵ Durgesh Chopra, et. al., "Q3 Highlights," Evercore ISI, November 8, 2024.

1 **Q. How long of a period do you typically use for purposes of the assumed stock prices?**

2 A. I typically use from three months to six months of stock prices. In previous Ameren
3 Missouri rate cases, I had used three months of stock prices. However, due to the fact that
4 Ameren Corp and the electric utility industry's stock prices started to increase rapidly after
5 July 1, 2024, using this shorter period implies a significant decrease in the electric utility
6 industry's COE in only a few months.

7 **Q. Will Ameren Corp's and the electric utility industry's stock prices remain at their
8 more recent higher levels as compared to earlier this year?**

9 A. I do not know. However, I will continue to monitor the stock prices as this case progresses
10 to inform the Commission of whether it appears that the electric utility industry's COE
11 remains more similar to recent lower levels or if they will increase back to around 8.5% as
12 I recently estimated in the 2024 EMW rate case, Case No. ER-2024-0189.

13 **Q. What does industry data suggest is a sustainable growth rate for a predominately
14 regulated electric utility company, such as Ameren Missouri?**

15 A. I reviewed past actual historical industry growth rate data from the Moody's electric utility
16 index,¹⁶ a sample group of electric utility companies in which data was available from
17 Value Line,¹⁷ and commentary/analysis available from institutional investors/analysts.¹⁸
18 This information supports a perpetual growth rate in the range of 2.5% to 3.5%. A
19 perpetual growth rate within this range is also consistent with the "sustainable growth
20 model," which estimates EPS growth by multiplying an average long-term industry
21 retention rate by an expected book ROE. Assuming the utility industry reverts to its long-
22 term earnings retention rate of approximately 30% and allowed ROEs are maintained
23 around 9.5%, this supports a 2.85% perpetual growth rate if investment opportunities are
24 available (9.5% allowed ROE multiplied by 30%).

¹⁶ Staff Cost of Service Report, Case No. ER-2011-0028, p. 18.

¹⁷ *Id.*

¹⁸ Discussed throughout this testimony.

1 **Q. Is this industry data consistent with ****_____ ******
2 _____ ******

3 A. Yes. In fact, one of the sources I relied on for purposes of estimating the perpetual growth
4 rate is from **_____ ******
5 _____ ******
6 _____ ******¹⁹

7 **Q. How does this compare to perpetual growth rates used by equity analysts to estimate**
8 **fair prices for utility stocks?**

9 A. This is consistent with the perpetual growth rates used for purposes of estimating utility
10 stock prices. For example, Evercore ISI uses a perpetual growth rate of 2.5% to 3.5% in
11 its 3-stage DDM analyses of electric utility stocks.²⁰ Wells Fargo uses an average perpetual
12 growth rate of around 3%.²¹

13 **Q. Does Ameren Corp’s history include periods which provide insight as to a**
14 **sustainable/perpetual growth rate?**

15 A. Yes. For the period 2010/2011 through Ameren Missouri’s election of plant in service
16 accounting (“PISA”) on September 1, 2018, Ameren Corp limited its investment in
17 Ameren Missouri to maintenance-level capital expenditures.

18 **Q. What was the CAGR in Ameren Missouri’s rate base over this approximate period?**

19 A. Ameren Missouri’s CAGR in its rate base was in the range of 2.2% to 3% from 2010/2011
20 to December 31, 2019.²² This further supports a rational expected terminal growth rate
21 when the utility industry is maintaining systems to ensure safe and reliable service.

¹⁹ Ameren Dividend Policy Considerations, Ameren Finance Committee, October 2017, p. 5-10.

²⁰ Durgesh Chopra, et. al., “A Look at US Electricity Consumption Forecast,” Evercore ISI, June 9, 2024.

²¹ Neil Kalton, Sarah Akers, and Jonathan Reeder, “DDM Analysis Supports Sector Valuation & Quality/Growth Trade,” August 19, 2019, Wells Fargo.

²² Case No. ER-2019-0335, Laura Moore Direct Testimony, July 3, 2019, p. 18.

1 **Q. Has Ameren Corp recently changed its planned investment growth in its Illinois**
2 **jurisdiction?**

3 A. Yes. Before the ICC's decisions on Ameren Illinois' electric utility rate case in December
4 2023, and its natural gas distribution utility rate case in November 2023, Ameren Corp had
5 planned to target a 5-year CAGR of 7.4% for its Ameren Illinois electric utility rate base
6 and a 5-year CAGR of 6.7% for its Ameren Illinois natural gas distribution rate base.²³
7 After the ICC decisions, Ameren Corp is now only targeting a 5-year CAGR of 2.3% for
8 its Ameren Illinois electric utility rate base and a 5-year CAGR of 3.3% for its Ameren
9 Illinois natural gas distribution rate base.²⁴ Again, these maintenance-level capital
10 expenditure growth rates provide insight as to a sustainable growth rate.

11 **Q. What cost of equity did you estimate for Ameren Corp using the multi-stage**
12 **DCF/DDM approach?**

13 A. Using Ameren Corp's most recent 6-month average stock price of approximately \$79 and
14 discounting prospective dividends by reasonable growth rates in the intermediate future as
15 well as perpetually, the implied COE for Ameren Corp is approximately 8.1% to 8.2% (*see*
16 *Schedule DM-D-2*). This is approximately 50 to 90 basis points higher than my Ameren
17 Corp company-specific COE estimates of 7.3% to 7.6% in Ameren Missouri's 2022 rate
18 case.

19 Using Ameren Corp's most recent 3-month average stock price of approximately \$84.70,
20 Ameren Corp's implied COE indicates an implied COE of 7.7% to 7.9%.

²³ "Transforming For Our Future: Third Quarter 2023 Earnings," November 9, 2023, p. 15.

²⁴ "Powering a Reliable, Sustainable Tomorrow: Third Quarter 2024 Earnings," November 7, 2024, p. 13.

1 **PROXY GROUP COST OF EQUITY**

2 **Q. Should you compare your estimate of Ameren Corp’s company-specific COE to the**
3 **COE of a proxy group of other regulated electric utilities?**

4 A. Yes. Investors frequently evaluate the attractiveness of a utility company’s share price by
5 comparing it to the average of a peer proxy group, whether it’s based on a broader utility
6 index or a custom proxy group.

7 **Q. How did you approach selecting a custom proxy group for purposes of comparing**
8 **Ameren Corp’s COE versus its peers?**

9 A. I decided to analyze a broad proxy group of utilities classified as “regulated” and “mostly
10 regulated” utilities by the Edison Electric Institute (“EEI”).²⁵ A complete list of these
11 companies are listed on page 1 of Schedule DM-D-3. Although I estimated a COE based
12 on this broad electric proxy group, I also reviewed the companies EEI classifies as
13 “regulated,” but even these companies typically have non-regulated operations that
14 contribute to volatility in earnings and/or cash flows. Therefore, I reviewed the various
15 business segments of each of these companies to determine which generally have had less
16 than 10% of their operations exposed to competitive and international markets, which
17 amounted to 17 companies.²⁶ I also analyzed a subset of the EEI companies I have
18 consistently followed in electric rate cases since 2012, which I also used as the electric
19 utility industry proxy for the charts included in my testimony.²⁷

20 **Q. Did you perform a multi-stage DCF analyses on these companies?**

21 A. Yes. I applied the same principles as I did when applying the multi-stage DCF to Ameren
22 Corp. For the first stage (October 31, 2024 through June 30, 2028) I used Wall Street
23 analysts’ consensus DPS estimates to the extent they were available. For the second stage

²⁵ EEI classifies companies as “Regulated” if at least 80% of their assets are dedicated to regulated utility operations.

²⁶ Consists of the following companies: Alliant Energy Corporation, Ameren Corporation, American Electric Power Company, Avista Corporation, Black Hills Corporation, CenterPoint Energy, CMS Energy Corporation, Duke Energy Corporation, Evergy Inc., Eversource Energy, IDACORP, NorthWestern Energy Group, Pinnacle West Capital Corporation, Portland General Electric Company, PPL Corporation, WEC Energy Group, and Excel Energy Inc.

²⁷ *Id.*

1 (June 30, 2028 through June 30, 2038), I allowed for a gradual decline from Wall Street
2 analysts' projected 5-year CAGR in EPS to a sustainable perpetual growth rate of 3%
3 starting on June 30, 2038. In order to estimate investors' anticipated annual DPS over the
4 second stage, I determined consensus analysts' estimated dividend payout ratios as of 2028.
5 I then allowed the dividend payout ratios to gradually converge to a sustainable payout
6 ratio of 68.42% starting in 2038, which assumes reinvestment of retained earnings achieve
7 a 9.5% book ROE. This payout ratio is consistent with the constant/sustainable-growth
8 DCF theory that requires DPS, EPS and book value per share ("BVPS") to grow in
9 perpetuity at the same rate.

10 As it relates to my assumed timing of investors' receipt of dividends, I assumed investors
11 receive the entire annual DPS estimate at the middle of the year. This discounting
12 convention mitigates the potential under- or over-estimating of the COE based on either
13 end-of-year or beginning-of-year discounting conventions.

14 Using a 6-month average of electric utility stock prices, my industry COE estimate based
15 on application of the multi-stage DCF to the proxy group indicates a COE in the range of
16 approximately 8.2% to 8.4%, which is approximately 30 to 70 basis points higher than my
17 COE estimates of 7.65% to 7.9% in Ameren Missouri's 2022 rate case (*see* Schedule DM-
18 D-3, p. 1).

19 **Q. How would using the three-month period ending October 31, 2024 impact your multi-**
20 **stage DCF COE estimates?**

21 A. It would lower my COE estimates to the range of 7.9% to 8.1%.

22 **Q. How do your current multi-stage COE estimates for the electric utility industry**
23 **compare to your multi-stage DCF COE estimates for the electric utility industry**
24 **during the 2014/2015 period in which the Commission first deemed a 9.5% authorized**
25 **ROE to be fair and reasonable for Missouri's electric utilities?**

26 A. My multi-stage DCF COE estimates in Ameren Missouri's 2014 rate case, Case No. ER-
27 2014-0258, were 7.5% to 7.65%. Using a six-month average of recent stock prices implies
28 a 70 basis points higher COE than in the 2014/2015 period.

1 **Q. Have you changed anything in your multi-stage DCF approach since Ameren**
2 **Missouri's 2014 rate case that may cause slight differences in your electric utility**
3 **industry COE estimates?**

4 A. Yes. I refined my multi-stage approach starting in 2019 due to the fact that I gained access
5 to more detailed analysts' estimates. I determined that I could use these estimates to more
6 closely align the variables in the model with the assumptions underlying the constant-
7 growth stage – the terminal stage of the model.

8 **Q. Using the same multi-stage DCF approach you used prior to 2019, what do the results**
9 **imply about the changes in the electric utility industry's COE since 2015?**

10 A. Using six months of average stock prices implies a COE increase of approximately 35 to
11 60 basis points where using three months of average stock prices implies a 0 to 35 basis
12 point increase (*see* Schedules DM-D-4).

13 CAPM

14 **Q. Did you use any other models to estimate Ameren Corp's and the electric utility**
15 **proxies' cost of equity?**

16 A. Yes. In my experience, many Wall Street analysts use the CAPM to determine a discount
17 rate, *i.e.* the COE, to apply to expected cash flows to the equity investor. The CAPM shows
18 the potential impact of changes in interest rates on the cost of capital. Although COE
19 estimates can be manipulated with the CAPM by using unreasonable market risk premium
20 estimates, fortunately there are a variety of authoritative sources that provide equity risk
21 premium estimates that can form the basis for a consensus view of reasonable risk
22 premiums based on current capital market conditions.

23 **Q. What is the underlying theory that supports the use of the CAPM to estimate the cost**
24 **of equity for utilities?**

25 A. The CAPM is based on capital market theory in which it is recognized that although the
26 total risk of a company and/or industry consists of market ("systematic") risk and
27 asset/business-specific ("unsystematic") risk, investors are only compensated for

1 systematic risk because holding a diversified portfolio allows the investor to avoid
2 unsystematic risk. Systematic risks are unanticipated events in the economy, such as
3 economic growth, changes in interest rates, demographic changes, etc., that affect almost
4 all assets to some degree. The required risk premium for incurring the market risk as it
5 relates to the investment/portfolio is determined by adjusting the market risk premium by
6 the beta of the stock or portfolio. The adjusted risk premium is then added to a risk-free
7 rate to determine the cost of equity. The CAPM is typically expressed in equation form as
8 follows:

$$K_e = R_f + \beta (RP_m)$$

9
10
11 Where: K_e = the cost of equity for a security;
12 R_f = the risk-free rate;
13 β = beta; and
14 RP_m = market risk premium.
15

16 For purposes of my CAPM analysis, I relied on Kroll's recommended equity risk premium
17 of 5.0% provided as of June 6, 2024²⁸ and a range of realized historical equity risk
18 premiums of 5.14% (geometric historical mean for 1926 through 2023) to 6.56%
19 (arithmetic historical annual mean for the period 1926 through 2023) derived from data
20 provided by Ibbotson Associates' Stocks, Bonds, Bills and Inflation database.

21 Although each of these equity risk premium estimates use various methods and risk-free
22 rates to arrive at their final estimates, I do not consider any estimate outside these to be
23 consistent with the investment community's "consensus." I specifically used a market risk
24 premium range of 5% to 6% to estimate the COE for the electric utility industry. One of
25 the primary drivers of using a higher market risk premium versus a lower market risk
26 premium is due to whether this market risk premium is applied to a normalized risk-free
27 rate or a current risk-free rate (higher market risk premiums applied to lower current low
28 risk-free rates). Long-term expected nominal market returns for the S&P 500 are as low

²⁸ <https://www.kroll.com/-/media/kroll-images/pdfs/kroll-lowers-its-recommended-us-equity-risk-premium-effective-june-5-2024.pdf>

1 as 7%.²⁹ Therefore, market risk premiums in the 5.0% to 6.0% range may actually be
2 excessive for purposes of a CAPM analysis.

3 **Q. What does the beta represent in a CAPM analysis?**

4 A. Beta is statistically defined as the covariance of the returns on an asset (in this case an
5 individual stock or group of stocks) with the return on the S&P 500 divided by the variance
6 of the returns on the S&P 500. This statistical measure is intended to provide investors
7 with insight regarding expected volatility of a security (or portfolio of securities) as it
8 relates to market volatility. A beta of less than one implies less expected volatility than the
9 market with the trade-off of a lower expected return than the market. The reverse is
10 expected for a beta greater than one.

11 **Q. Are stock betas calculated based on historical market prices and relationships?**

12 A. Yes. For example, Value Line's published betas are based on five years of historical
13 weekly returns of a stock or portfolio of stocks as compared to the weekly returns of the
14 market.

15 **Q. Have utility stock betas exhibited a wide range of values since the onset of the Covid-
16 19 pandemic?**

17 A. Yes. During Empire's and Ameren Missouri's 2019 rate cases, electric utility 5-year stock
18 betas had declined to quite low levels of around 0.55. At the time I sponsored testimony
19 for the Empire and Ameren Missouri 2021 utility rate cases, electric utility 5-year stock
20 betas had increased to around 0.80. Electric utility 5-year stock betas are currently
21 approximately 0.92 for the broad EEI proxy group and around 0.88 for more pure-play
22 regulated electric utilities. Specifically, Ameren Corp currently has a five-year historical
23 beta of 0.85.

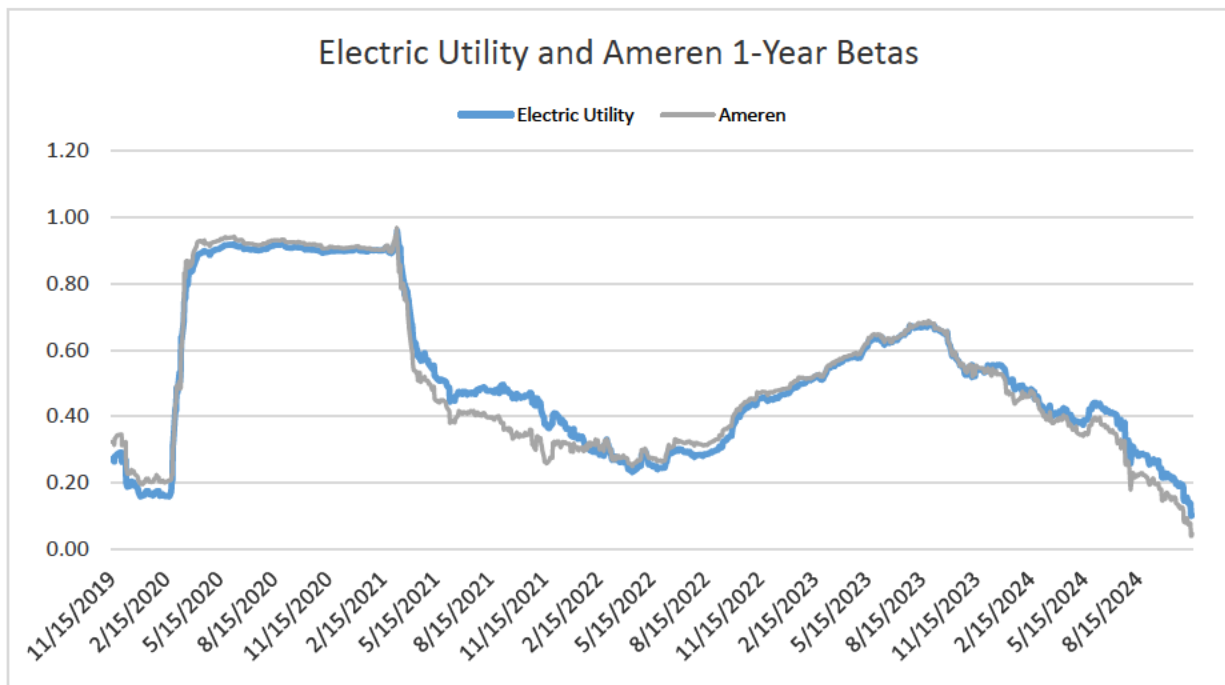
²⁹ First Quarter 2024 Survey of Professional Forecasters, Philadelphia Federal Reserve Board (Feb. 9, 2024), <https://www.philadelphiafed.org/surveys-and-data/real-time-data-research/spf-q1-2024> and John Bilton et al., *2024 Long-Term Capital Market Assumptions: Time-tested projections to build stronger portfolios*, J.P.Morgan (October 17, 2023), <https://am.jpmorgan.com/us/en/asset-management/adv/insights/portfolio-insights/ltcma/>

1 **Q. What was the primary cause of the increase in utility stock betas?**

2 A. The spike in utility stock betas occurred when the market plummeted at the onset of the
3 pandemic in March 2020. It is quite common for all securities, both higher-risk and lower-
4 risk securities, to move in tandem during significant market corrections. Because betas
5 measure the relative volatility of a company or a portfolio as it relates to the market, if all
6 securities rapidly decline at the same time, this causes all betas to converge toward one.

7 **Q. How much have electric utility one-year raw betas changed over the last few years
8 due to the market contraction at the onset of the pandemic?**

9 A. Please see the following chart for one-year raw betas since late-2019:



10

11 **Q. How do you interpret the one-year raw beta data shown in the chart?**

12 A. The steep increase in Ameren Corp's and the electric utility industry's one-year betas
13 coincided with the markets' synchronized contraction at the onset of market fears related
14 to the Covid-19 pandemic in late March 2020. Ameren Corp's and the electric utility
15 industry's betas did not return to more typical levels until this data dropped off the one-
16 year beta calculations a year later.

1 The significant drop in one-year betas since mid-2024 indicates that Ameren Corp and the
2 electric utility industry's stock prices have been changing inversely to that of the S&P 500.

3 **Q. Did you determine longer-term electric utility betas which exclude the abnormal**
4 **situation that occurred during the broad market decline at the onset of the Covid-19**
5 **pandemic?**

6 A. Yes. I determined the electric utility betas based on data for the last four years, which
7 captures the market dynamics of the period impacted by monetary and fiscal policies in
8 response to Covid-19, but excludes the market swoon in March 2020. These betas are
9 much more in line with typical historical adjusted betas of around 0.7 for the electric utility
10 industry.

11 **Q. Based on your CAPM analysis using four-year betas, what is the estimated COE for**
12 **Ameren Corp and the proxy groups?**

13 A. My CAPM COE analysis indicates that Ameren Corp and the electric utility industry
14 currently have a COE generally in the 7.4% to 8.4% range based on market risk premium
15 estimates in the 5% to 6% range. (*see* Schedule DM-D-5).

16 *SIMPLE TESTS OF REASONABLENESS*

17 **Q. Are there any other reasonableness tests to show your COE estimates are rational**
18 **and logical?**

19 A. Yes. First, as I indicated earlier in my testimony, a simple rule of thumb the Chartered
20 Financial Analyst ("CFA") suggests in its curriculum is to estimate the COE by adding a
21 3% to 4% risk premium to a company's bond yield to provide a fairly simple, but objective
22 cost of equity. Being that the investment community views utility stocks as bond
23 surrogates/substitutes, it is logical and reasonable to not add a risk premium any higher
24 than 3% to the bond. Simply adding a 3% risk premium to recent YTM's of Ameren
25 Missouri's long-term bonds of around 5.5% implies a COE of approximately 8.5%.

26 Second, one just needs to think about the basic characteristics of utility stocks, which is
27 that investors typically view them as yield investments. An analysis performed by Alliance

1 Bernstein (an equity research firm) showed that between 1974 to 2010, approximately 68%
2 of returns from utility stocks were from the income received through dividends, with the
3 remaining from capital gains.³⁰ However, with some electric utility companies targeting
4 lower dividend payout ratios, at least in the near-term, in order to fund higher capital
5 expenditure programs related to grid modernization and generation projects, it is
6 reasonable to expect a larger share of returns may be in the form of capital gains. But a
7 fundamental change in the basic characteristics of electric utility stocks is highly unlikely.
8 Even if assuming electric utility stocks generated 50% of returns from capital gains over
9 the long-term, this translates into a 7.3% to 8.4% required return based on the current
10 average electric utility dividend yield of approximately 3.65% to 4.2%, depending on the
11 proxy group analyzed. If Ameren Corp investors were able to achieve 50% of their total
12 return from capital gains over the long-term, this implies a total return of approximately
13 6.75% to 7.25% based on Ameren Corp's dividend yield range of 3.37% to 3.60% based
14 on six- and three-month averages of stock prices.

15 RECOMMENDED AUTHORIZED ROE

16 **Q. Based on your analysis and understanding of Ameren Corp's COE, the electric utility**
17 **industry's COE, investor expectations on allowed ROEs, average electric utility**
18 **authorized ROEs, and Ameren Corp's authorized returns for its Illinois electric**
19 **utility operations, what would be a fair and reasonable allowed ROE range in this**
20 **case?**

21 A. 9.00% to 9.50% with 9.5% being my point ROE recommendation to set Ameren Missouri's
22 authorized ROR.

23 **Q. Considering you estimate Ameren Missouri's COE to be in the 7.5% to 8.5% range,**
24 **why do you consider a 9.5% authorized ROE reasonable?**

25 A. While it certainly may be a worthwhile debate to quantify the amount of "premium," if
26 any, over the COE that is fair and reasonable to allow a utility, the Commission has

³⁰ Hugh Wynne, Francois D. Broquin, and Saurabh Singh, "U.S. Utilities: Our Dividend Growth Model Identified Utilities Poised to Pay More," May 20, 2011, Bernstein Research.

1 repeatedly communicated in its orders that it needs to consider average authorized ROEs
2 in setting a fair and reasonable ROE for its Missouri utilities. As it relates to this instant
3 case, I believe the fact that although the cost of capital has increased over the last couple
4 of years, an authorized ROE of 9.5% still allows Ameren Missouri to create shareholder
5 value simply by investing in rate base because a 9.5% ROE is higher than the Company's
6 COE.

7 **CAPITAL STRUCTURE**

8 **Q. Will you briefly explain capital structure?**

9 A. Capital structure represents how a company finances its assets. The typical capital
10 structure consists of common equity, long-term debt, and short-term debt. Some utilities'
11 capital structures may also include a small portion of preferred stock, but this has become
12 rare in recent years. Although short-term debt is a typical component of a utility company's
13 capital structure, if the balances of short-term debt are fairly consistent or below
14 construction work in progress ("CWIP") balances, then it is fair to exclude short-term debt
15 from the rate making capital structure. This is due to the expectation that the short-term
16 debt and its corresponding rates are used to calculate the allowance for funds used during
17 construction ("AFUDC") capitalization rate.

18 **Q. What capital structure do you recommend for purposes of setting Ameren Missouri's**
19 **ROR?**

20 A. I recommend a capital structure that consists of approximately 42% common equity, 0.60%
21 preferred stock and 57.40% long-term debt. While not exactly the same as Ameren Corp's
22 consolidated capital structure as of March 31, 2024, this is in line with Ameren Corp's
23 recent targeted consolidated capital structure.

24 **Q. What is the basis for your capital structure recommendation?**

25 A. My recommended capital structure is consistent with Ameren Corp's consolidated capital
26 structure, net of short-term debt. This capital structure best represents the amount of debt
27 capacity Ameren Corp considers reasonable and appropriate for its regulated utility assets,

1 including those of Ameren Missouri. Use of this capital structure ensures that Ameren
2 Missouri’s ratepayers receive credit for the additional debt capacity associated with
3 Ameren Missouri’s reduced business risk profile due to PISA and the ability to recover
4 stranded assets and extraordinary costs through securitization. It is clear that Ameren
5 Corp’s strategy for managing its regulated utility subsidiary capital structures is primarily
6 for purposes of ratemaking. Ameren Corp has targeted a common equity ratio of around
7 52% for Ameren Missouri since at least 2012 and plans to continue targeting this common
8 equity ratio for ratemaking for the foreseeable future. This static 52% common equity ratio
9 regardless of changes in business risk and/or economic conditions, contradicts one of the
10 primary purposes of managing a company’s capital structure – to achieve the lowest
11 reasonable cost without jeopardizing financial stability. As I discuss later, Ameren
12 Missouri’s lower business risk has afforded Ameren Corp the ability to carry a higher
13 proportion of debt in its capital structure, but instead of sharing the lower cost of this
14 additional debt capacity with Ameren Missouri and its customers, Ameren Corp is
15 misappropriating this debt capacity by leveraging shareholder returns at the holding
16 company level.

17 **Q. What is the basis for your conclusion that Ameren Corp targets common equity ratios**
18 **for ratemaking purposes?**

19 A. My conclusion is based on Ameren Corp’s past financial management of its subsidiaries
20 and Ameren Corp’s projected equity ratios for the next few years. The Federal Energy
21 Regulatory Commission (“FERC”) authorized a 60.16% equity ratio at Ameren
22 Transmission Company of Illinois (“ATXI”). The Illinois Commerce Commission
23 (“ICC”) authorized a 50% common equity ratio for Ameren Illinois’ electric utility and
24 natural gas utility operations. The Missouri Public Service Commission authorized an
25 approximate 52% equity ratio for Ameren Missouri in its last litigated electric rate case in
26 2014, Case No. ER-2014-0258.³¹ ** _____
27 _____
28 _____

³¹ Ameren Corp’s 2023 SEC Form 10-K Filing, p. 8.

1 _____ **32 In other words, Ameren Missouri’s equity balance does not
2 represent the most efficient amount of equity for Ameren Missouri. Its equity balance is
3 based on Ameren Corp’s desire for an equity ratio that allows it to attempt to charge higher
4 rates to Ameren Missouri customers.

5 **Q. What capital structure has Ameren Corp managed for purposes of taking advantage**
6 **of debt capacity afforded by Ameren Corp’s low-risk regulated utility subsidiaries?**

7 A. Ameren Corp has managed its consolidated capital structure for purposes of taking
8 advantage of its regulated utilities’ debt capacity. Ameren Corp has been steadily
9 increasing the amount of holding company debt it uses to invest in its subsidiaries.

10 As of the updated test year in Ameren Missouri’s 2019 rate case, Case No. ER-2019-0335,
11 Ameren Corp had \$700 million of holding company debt outstanding (8.39% of total
12 consolidated debt).

13 As of the December 31, 2020, test year in its 2021 rate case, Case No. ER-2021-0240,
14 Ameren Corp had \$1.6 billion of holding company debt outstanding (14.63% of total
15 consolidated debt).

16 As of the updated test year of June 30, 2022, in Ameren Missouri’s 2022 rate case, Case
17 No. ER-2022-0337, Ameren Corp had \$2.55 billion of outstanding holding company long-
18 term debt, which represents 18.95% of total consolidated debt.

19 As of March 31, 2024, Ameren Corp had \$3.85 billion of outstanding holding company
20 long-term debt, which represents 23.39% of total consolidated long-term debt.

21 It is clear that Ameren Corp dynamically manages its consolidated capital structure to take
22 advantage of the debt capacity provided by its regulated utility subsidiaries, but targets a
23 static 52% equity ratio at Ameren Missouri for ratemaking purposes. Ameren Missouri
24 should not be allowed an equity ratio that its own parent company deems to be cost
25 inefficient. This is especially egregious since Ameren Missouri’s ratepayers incur the risk
26 associated with Ameren Missouri’s ability to defer investment costs using PISA.

³² “Powering a Reliable, Sustainable Tomorrow,” Ameren Rating Agency Update, April 2024, p. 51.

1 **Q. Do you have other evidence that Ameren Missouri should have a lower common**
2 **equity ratio than the 52% it has constantly targeted over the last twelve years?**

3 A. Yes, Ameren Missouri's business risk declined due to the Missouri Legislature's passage
4 of Senate Bill ("SB") 564, which became law in 2018, and Ameren Missouri's decision to
5 elect PISA in September 2018. A fundamental consideration in determining how much
6 financial risk, *i.e.* additional debt, an asset/business can support is the level of business risk
7 inherent in that asset/business. Consequently, because Ameren Missouri's business risk
8 declined, it can carry more leverage, *i.e.* debt, in its capital structure. Despite operating
9 with less risk, Ameren Corp has not adjusted its targeted capital structure for Ameren
10 Missouri to reflect the lower cost of capital that Ameren Missouri's customers support by
11 being charged for the recovery of depreciation and a ROR on plant that goes into service
12 between general rate cases. Based on Ameren Corp's continued management of Ameren
13 Missouri's capital structure to a 52% common equity ratio, it is evident that Ameren Corp
14 is trying to reward shareholders with the financial benefits enabled by SB 564, rather than
15 passing the reduced cost of capital through to ratepayers by adjusting its equity ratio. The
16 Commission can ensure ratepayers realize the benefits of the lower risk they support by
17 authorizing Ameren Missouri's ROR based on a lower common equity ratio. This can
18 most objectively be accomplished by authorizing a common equity ratio for Ameren
19 Missouri that is consistent with Ameren Corp's on a consolidated basis. In addition, by
20 using Ameren Corp's common equity ratio for purposes of setting Ameren Missouri's
21 revenue requirement, Ameren Corp will be incentivized to manage its consolidated capital
22 structure to a more conservative level, which will provide it financial flexibility during
23 uncertain business and market conditions.

24 **Q. Do you have other information which supports your position that Ameren Missouri's**
25 **business risk is lower due to its ability to recover a return on and of investments**
26 **between rate cases through PISA?**

27 A. First, the very fact that Ameren Corp has committed to investing significant amounts of
28 capital in Ameren Missouri's system shows that Ameren Corp has confidence that it will
29 receive timely recovery of and on its investments that are subject to PISA.

1 Second, on March 29, 2019, Moody’s lowered Ameren Corp’s Funds from Operations
2 (“FFO”)/debt³³ threshold to 17% from 19%, which means that Ameren Corp can incur
3 more leverage as it compares to cash flow and still maintain its current credit rating of Baa1
4 (functional equivalent of S&P’s BBB+). One of the primary reasons Moody’s cited for
5 allowing Ameren Corp a lower FFO/debt threshold (*i.e.* use of more leverage) was
6 “improved regulatory construct in Missouri facilitating meaningful rate base growth and
7 reducing regulatory lag [PISA].”³⁴ Ameren Corp’s management said,** _____
8 _____
9 _____

10 _____ ** This
11 additional debt capacity should be reflected in Ameren Missouri’s authorized capital
12 structure because Ameren Missouri’s customers are providing the cash flows that make
13 this lower business risk possible. Considering the anticipated sizeable increase in Ameren
14 Missouri’s rate base over the next several years, it is just and reasonable to ensure
15 ratepayers are charged a ROR based on the additional debt capacity they afford to Ameren
16 Corp. Recognizing the reduced cost of capital through Ameren Corp’s ability to utilize
17 more debt in its capital structure allows Ameren Missouri’s ratepayers to receive credit for
18 Ameren Corp’s reduced risk profile afforded by Ameren Missouri’s election of PISA.

19 Third, as I discussed previously, before the ICC’s December 2023 decision on Ameren
20 Illinois’ electric utility rate case, Ameren Corp had been viewed as a premium utility by
21 investors because of the anticipated growth in its investment and investors’ confidence in
22 the probability of the recovery of a return of and on this investment. As a result of the
23 ICC’s decision on Ameren Illinois’ multi-year rate plan, Ameren Corp reallocated intended
24 capital spend for its Illinois electric utility systems to its Missouri electric utility systems

³³ FFO/Debt (as generally referenced by most evaluating credit worthiness) is the credit metric that receives the most weight by both Standard & Poor’s (S&P) and Moody’s. This metric provides insight as to how much sustainable cash flow the operations generate as it relates to the amount of fixed obligations, which includes traditional debt, but also other obligations such as capital leases. The higher the ratio, the less financial risk implied by the ratio. Moody’s more specifically defines FFO/debt as “Cash flow from Operations – Pre Working Capital to Debt”. However, I will generally refer to each as FFO/debt.

³⁴ “Update to Credit Analysis,” Moody’s Investor Service, March 29, 2019, p. 2 (Schedule DM-D-18).

³⁵ Ameren Corp’s Finance Committee Meeting, February 7, 2019, p. 24.

1 and ATXI. Ameren Corp has communicated that its decision to do so is due to Missouri's
2 more "constructive" regulatory environment for investors as compared to Illinois.

3 **Q. Why does Ameren Corp's current consolidated capital structure have a much lower**
4 **equity ratio than Ameren Missouri's capital structure?**

5 A. Primarily because of Ameren Corp's increased use of holding company debt to fund its
6 investments. As I have already explained, Ameren Corp continues to issue more holding
7 company debt on an absolute and relative basis. As of the updated test year, June 30, 2019,
8 in Ameren Missouri's 2019 rate case, Ameren Corp had \$700 million of holding company
9 debt outstanding. As of March 31, 2024, the end of the test year in this case, Ameren Corp
10 had \$3.85 billion of holding company debt outstanding. As a proportion of consolidated
11 debt, Ameren Corp has approximately tripled its percentage of holding company debt.

12 **Q. Do you have any examples of how Ameren Corp has managed its subsidiaries' capital**
13 **structures to target common equity ratios for ratemaking?**

14 A. Yes. Although Ameren Corp's management of Ameren Missouri's capital structure is my
15 primary focus, because Ameren Corp's management, through Ameren Services ("AMS"),
16 is ultimately managing all of its subsidiaries for the benefit of Ameren Corp shareholders,
17 it is important to evaluate and understand Ameren Corp's decisions as it relates to all of its
18 subsidiaries.

19 Ameren Corp's management of Ameren Transmission Company of Illinois' ("ATXI")
20 capital structure provides the most glaring example of how Ameren Corp manages its
21 subsidiaries' capital structures to its benefit for ratemaking purposes. ATXI's rates are
22 based on a FERC-authorized common equity ratio of 60.16%. Because ATXI was a new
23 company with no financial experience and no significant assets until around 2014 to 2015,
24 it completely relied on Ameren Corp for its capital needs until 2017.

25 Ameren Corp has provided steady incremental financing to ATXI since 2010. Ameren
26 Corp relies on its shared credit facilities with Ameren Missouri and Ameren Illinois in
27 order to access commercial paper for financing needs at the holding company level.
28 Ameren Corp used this short-term debt capital to finance both its equity and debt

1 investments in ATXI.³⁶ While it appears a majority of Ameren Corp's commercial paper
2 financing was used for purposes of investing in ATXI's assets, which were classified as
3 equity infusions into ATXI, it is also possible some of the commercial paper was issued to
4 finance other Ameren Corp capital needs. For example, Ameren Corp used commercial
5 paper to repay \$425 million of long-term debt due in May 2014. In order to reduce the
6 amount of short-term debt carried at the holding company due to the aforementioned
7 financing needs, Ameren Corp issued \$700 million of long-term debt. However, during
8 much of this period in which Ameren Corp was funding these investments with external
9 capital, it was also receiving significant dividends from Ameren Missouri. Being that there
10 is no way to trace the capital once Ameren Corp receives it and redeploys it, it becomes a
11 futile effort to try and disaggregate the various forms of capital for each subsidiary.
12 Fortunately, this is not necessary for purposes of determining how much debt the
13 subsidiaries support because the consolidated capital structure provides this transparency.

14 After Ameren Corp financed ATXI's investments through short-term and long-term debt,
15 ATXI issued \$450 million of third-party debt on June 22, 2017. The proceeds from this
16 debt were used to refund \$425 million of the \$500 million of debt financing Ameren Corp
17 had provided to ATXI. None of the proceeds were used to return any portion of the equity
18 financing Ameren Corp had infused into ATXI. It is important to emphasize that ATXI's
19 equity and debt capital had been funded from the same source, Ameren Corp's commercial
20 paper. After the aforementioned transactions were completed, ATXI still had a per books
21 common equity ratio of around 55%, which was close to the 56% targeted at the time for
22 FERC ratemaking purposes, despite being financed by debt.

23 Ameren Corp had also managed Ameren Illinois' capital structure for ratemaking purposes.
24 Ameren Illinois, Staff of the Illinois Commerce Commission ("ICC") and an intervening
25 industrial party extensively litigated over several cases from 2011 to 2013 whether Ameren
26 Illinois's authorized ROR should be based on Ameren Illinois' per books capital structure,
27 which showed a common equity ratios in the range of 52% to 54%³⁷, or if it should be

³⁶ Ameren Missouri response to OPC DR No. 3033 in Case No. ER-2019-0335.

³⁷ Docket Nos. D-11-0279, D-12-0293 and D-13-0301.

1 adjusted to a lower level in order to recognize the reduced business risk afforded by the
2 Illinois' Grid Modernization Act.

3 After many years of litigation, the parties eventually agreed to deem a common equity ratio
4 of "up to and including 50% of the total capital" as reasonable for purposes of setting rates
5 for Ameren Illinois. This agreement was codified into law by the 2016 Illinois
6 Legislature's passage of the Future Energy Jobs Act ("FEJA") as an amendment to the
7 2011 Illinois Energy Infrastructure Modernization Act. Until recently, Ameren Corp had
8 managed Ameren Illinois' actual adjusted year-end common equity ratio to within 25 basis
9 points (0.25%) of the 50% determined reasonable for ratemaking in Illinois. The adjusted
10 year-end common equity ratio has not varied by more than 15 basis points (0.15%) over
11 this period. However, in Ameren Illinois' final two annual rate dockets, Docket Nos. D-
12 21-0365 and D-22-0297, under its formula rate plan, Ameren Illinois requested higher
13 ratemaking common equity ratios, claiming that its reduced formula ROEs and lower cash
14 flows due to the reduction of the corporate income tax rate starting in 2018, required it to
15 manage to a higher common equity ratio. In Case No. D-21-0365, the ICC applied a 7.36%
16 ROE to a 51% common equity ratio for purposes of setting 2022 rates. In Case No. D-22-
17 0297, the ICC applied a 7.85% ROE to a 50% common equity ratio for purposes of setting
18 2023 rates.

19 **Q. Is the ROR for Ameren Illinois' electric utility operations still set based on the**
20 **formula prescribed in FEJA?**

21 A. No. Beginning January 1, 2024, Ameren Illinois' authorized ROR was determined based
22 on the traditional approach of parties filing cost of capital/rate of return testimony for
23 purposes of setting Ameren Illinois' rates. Instead of annual formula rates, Ameren
24 Illinois's electric utility operations now operate under a multi-year rate plan, which sets a
25 capital plan and rates for the next four years. For purposes of Ameren Illinois inaugural
26 multi-year rate plan, the ICC authorized an 8.72% ROE applied to a 50% common equity
27 ratio.

1 **Q. How has Ameren Corp managed Ameren Missouri's capital structure for**
2 **ratemaking?**

3 A. Ameren Missouri manages to its 52% targeted common equity ratio by means of its equity
4 infusions, its dividend payments, and its debt financings. Ameren Missouri's common
5 equity ratios for rate cases since 2010 have been in the range of 51.26% to 52.30%, with
6 all cases but the 2010 rate case being within the range of 51.75% to 52.30%.

7 Despite Ameren Missouri's reduced business risk profile due to favorable legislative
8 initiatives such as the legislation allowing PISA in 2018 and securitization in 2021, Ameren
9 Missouri's common equity ratio has not changed. Allowing Ameren Missouri's capital
10 structure to be more leveraged would reduce Ameren Missouri's cost of capital and,
11 therefore, the ROR ratepayers are charged in its revenue requirement. Of course, being
12 that Ameren Corp historically had needed to raise debt capital for investment in its other
13 subsidiaries, as well as support its dividend payments to its shareholders, Ameren Corp has
14 a financial incentive to maintain a higher common equity ratio at Ameren Missouri because
15 this generates more cash flow to service Ameren Corp's holding company debt. It is not
16 fair to Ameren Missouri's ratepayers for Ameren Corp to use Ameren Missouri's debt
17 capacity for the benefit of Ameren Corp's shareholders.

18 **Q. What shows that Ameren Missouri's capital flows are not managed as if it were a**
19 **stand-alone entity?**

20 A. If Ameren Missouri's capital structure were being managed for its own benefit, then one
21 would expect that it would have a carefully managed dividend payment policy, similar to
22 how Ameren Corp manages its dividend payments to a targeted payout ratio in the range
23 of 55% to 65%. However, over the most recent five years, Ameren Missouri's dividend
24 payout ratios have been as follows: 100.23% in 2019, 15.03% in 2020, 4.61% in 2021,
25 8.14% in 2022 and 1.64% in 2023. If Ameren Missouri were financially managed as a
26 stand-alone entity, it would have its own formal dividend policy. Ameren Missouri
27 shouldered the burden of dividends ultimately paid to Ameren Corp shareholders through
28 2018 because Ameren Corp had only been minimally reinvesting in Ameren Missouri until

1 it elected PISA in September 2018,³⁸ whereas, at the same time, it had been investing
2 significant amounts of capital in ATXI and Ameren Illinois. Over the last five years,
3 Ameren Illinois has had a dividend payout ratio that has ranged from 0% to 6.73%. ATXI
4 has required much less investment since 2017, which is the last year in which ATXI did
5 not distribute a dividend to Ameren Corp. Over the last five years, ATXI's dividend payout
6 ratios have been as low as 18.03% in 2019 and as high as 130.26% in 2023. If Ameren
7 Corp's subsidiaries were stand-alone entities, then it would be impossible for their cash
8 flows to be managed in this fashion because the shareholders of each entity would expect
9 a consistent and steady dividend.

10 **Q. Are there other ways Ameren Corp manages its subsidiaries' common equity ratios?**

11 A. Yes. First, the subsidiaries do not have the capability to manage their own capital needs.
12 AMS provides this function for all of Ameren Corp's subsidiaries and has total operational
13 control of all Ameren Corp entities, except for Ameren Missouri and Ameren Illinois.

14 AMS uses short-term debt, *i.e.* commercial paper, at Ameren Corp to make capital
15 infusions in its subsidiaries. Being that Ameren Missouri has a finite amount of cash it can
16 provide to Ameren Corp via dividends, at times Ameren Corp has not received enough
17 dividends from its subsidiaries to fully fund the dividends it pays to its shareholders.
18 Consequently, it has had to raise other capital to fund this deficiency.

19 Ameren Corp freely admits that it issues short-term debt and long-term debt at the holding
20 company level to invest in its Ameren Illinois and ATXI subsidiaries.³⁹ However, Ameren
21 Corp indicates it is a matter of policy not to do the same for Ameren Missouri because it
22 wants to ensure that Ameren Missouri's equity is supported by Ameren Corp's third-party
23 equity issuances.⁴⁰ This has been Ameren Corp's basis for maintaining that Ameren
24 Missouri's equity ratio is legitimate for ratemaking purposes.

³⁸ Case No. EO-2019-0044.

³⁹ See Ameren Missouri's response to DR No. 3033 in Case No. ER-2019-0335.

⁴⁰ *Id.*

1 **Q. Why do you consider Ameren Corp’s long-term equity ratio to be the most**
2 **appropriate for setting Ameren Missouri’s allowed ROR?**

3 A. Ameren Corp allocates capital to its rate regulated subsidiaries to target and achieve
4 ratemaking common equity ratios. The most objective and practical measure of the capital
5 structure that captures the debt capacity of Ameren Corp’s regulated utility assets, is that
6 of the Ameren Corp on a consolidated basis. Consequently, I recommend Ameren
7 Missouri’s common equity ratio be set no higher than Ameren Corp’s typical common
8 equity ratio of approximately 42%, net of short-term debt.

9 **Q. Do Ameren Corp’s financial projections anticipate a similar common equity ratio**
10 **over the next several years?**

11 A. Yes. Ameren Corp expects its consolidated common equity ratio to be around ** _____
12 _____ **41

13 **Q. Do you recommend short-term debt be included in Ameren Missouri’s ratemaking**
14 **capital structure for this case?**

15 A. No. Due to Ameren Missouri’s consistent and significant monthly CWIP balances of over
16 \$1 billion, it is clear that Ameren Corp and Ameren Missouri are issuing short-term debt
17 as a bridge before refinancing investment in plant with long-term capital.

18 **Q. Are Ameren Missouri’s ratepayers receiving full credit for the proportion of short-**
19 **term debt needed because of the significant CWIP balances?**

20 A. No. As I discussed above, instead of Ameren Corp relying on its subsidiaries for dividend
21 payments to its third-party shareholders, it is issuing holding company short-term debt to
22 fund dividends. The creation and use of a holding company for such purposes distorts the
23 intent of ratemaking elements such as AFUDC. Based on Ameren Missouri’s 13-month
24 average short-term debt balance compared to its 13-month average CWIP balance, Ameren
25 Missouri’s ratepayers are only receiving 25% weighting for short-term debt in the AFUDC
26 formula. A more accurate reflection of the proportion of short-term debt supporting CWIP

⁴¹“Powering a Reliable, Sustainable Tomorrow,” Ameren Rating Agency Update, April 2024, p. 51.

1 is to compare Ameren Corp's short-term debt balances to its CWIP balances. Ameren
2 Corp's proportion of short-term debt to CWIP average 52.1% over the same period.

3 **Q. How do you recommend Ameren Missouri's ratepayers receive credit for the**
4 **expectation that short-term debt should be used as bridge financing for CWIP?**

5 A. I recommend the Commission order Ameren Missouri to apply a short-term debt rate to all
6 CWIP, except for Castle Bluff, which is governed by a specific agreement executed in Case
7 No. EA-2024-0237. Most of Ameren Missouri's projects are relatively short-term so the
8 capitalization rate should be based on a short-term cost of capital. The rationale for
9 including long-term capital costs in the AFUDC is due to potential multi-year projects in
10 which companies may be required to refinance short-term debt with long-term capital
11 before the project is complete.

12 **Q. How can the Commission determine an equitable, market-tested and objective capital**
13 **structure that more closely captures the amount of debt capacity consistent with**
14 **Ameren Missouri's low business risk?**

15 A. The Commission can more closely capture debt capacity consistent with Ameren
16 Missouri's low business risk by using Ameren Corp's consolidated capital structure as a
17 proxy. While this capital structure includes capital that is used for investment in all of
18 Ameren Corp's assets, this should not be the focus for determining the proper balance of
19 capital as it relates to each of Ameren Corp's subsidiaries. For example, while FERC has
20 decided to allow ATXI a common equity ratio of 60.1% for purposes of setting its allowed
21 ROR, Ameren Corp understands that these assets can support a much higher amount of
22 leverage because of the low business risk associated with these assets. Consequently,
23 Ameren Corp initially issued all holding company debt for purposes of funding its
24 investment in ATXI. In 2017, ATXI issued \$450 million of third-party debt, which was
25 used to refund the affiliate loans Ameren Corp made to ATXI. Ameren Corp's strategic
26 financing decisions primarily concentrate on the amount of leverage Ameren Corp can
27 carry on a consolidated basis. This capital structure most accurately reflects the debt
28 capacity afforded by Ameren Missouri's assets.

1 **SUMMARY AND CONCLUSIONS**

2 **Q. Would you summarize your main conclusions and views as it relates to a Commission-**
3 **authorized Ameren Missouri ROR in this case?**

4 A. Yes. Ameren Missouri's allowed ROE of 9.53% was set during a period in which electric
5 utilities traded at similar P/E levels as today. While Ameren Missouri's overall business
6 risk is lower now than it was in 2015, justifying a lower authorized ROE, I recommend the
7 Commission recognize Ameren Missouri's lower business risk by authorizing a lower
8 common equity ratio for ratemaking. If the Commission does not set Ameren Missouri's
9 authorized ROR based on a lower authorized common equity ratio, then it should authorize
10 a lower ROE than it did in 2015.

11 Despite Ameren Missouri's lower business risk, its common equity ratio has remained
12 static at 52%. Ameren Corp has not managed Ameren Missouri's capital structure to allow
13 ratepayers to benefit from the lower cost of capital made possible by being charged for
14 plant placed in service between rate cases through the PISA mechanism. The Commission
15 should lower Ameren Missouri's allowed equity ratio to ensure ratepayers receive the
16 benefit of a lower capital cost during Ameren Missouri's period of rapidly increasing rate
17 base prompted by SB 564.

18 **Q. Does this conclude your testimony?**

19 A. Yes.

**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) Case No. ER-2024-0319

AFFIDAVIT OF DAVID MURRAY

STATE OF MISSOURI)
) **ss**
COUNTY OF COLE)

David Murray, of lawful age and being first duly sworn, deposes and states:

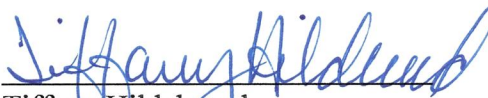
1. My name is David Murray. I am a Utility Regulatory Manager for the Office of the Public Counsel.
2. Attached hereto and made a part hereof for all purposes is my direct testimony.
3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.



David Murray
Utility Regulatory Manager

Subscribed and sworn to me this 2nd day of December 2024.

TIFFANY HILDEBRAND NOTARY PUBLIC - NOTARY SEAL STATE OF MISSOURI MY COMMISSION EXPIRES AUGUST 8, 2027 COLE COUNTY COMMISSION #15637121



Tiffany Hildebrand
Notary Public

My Commission expires August 8, 2027.