Exhibit No.:

Issue(s): Capital Structure Witness: Ryan J. Martin
Type of Exhibit: Direct Testimony
Sponsoring Party: Union Electric Company
File No.: ER-2016-0179

Date Testimony Prepared: July 1, 2016

MISSOURI PUBLIC SERVICE COMMISSION FILE NO. ER-2016-0179

DIRECT TESTIMONY

OF

RYAN J. MARTIN

ON

BEHALF OF

UNION ELECTRIC COMPANY d/b/a Ameren Missouri

> St. Louis, Missouri **July 2016**

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	PURPOSE AND SUMMARY OF TESTIMONY	2
III.	RATE OF RETURN AND COST OF CAPITAL CONSIDERATIONS	3
IV.	CAPITAL STRUCTURE AND CREDIT RATINGS, GENERALLY	5
V.	AMEREN MISSOURI'S ACTUAL AND FORECASTED CAPITAL	
	STRUCTURE	9
VI.	BALANCE AND EMBEDDED COST OF LONG-TERM DEBT	. 12
VII.	BALANCE OF SHORT-TERM DEBT	. 13
VIII.	BALANCE AND EMBEDDED COST OF PREFERRED STOCK	. 14
IX.	BALANCE AND COST OF COMMON EQUITY	. 15
X.	FAIR RATE OF RETURN	. 16
XI.	CONCLUSION	. 16
	APPENDIX A	. 17

DIRECT TESTIMONY

OF

RYAN J. MARTIN

FILE NO. ER-2016-0179

I	I. INTRODUCTION	
2	Q. Please state your name and business address.	
3	A. My name is Ryan J. Martin. My business address is One Ameren Pl	aza,
4	1901 Chouteau Avenue, St. Louis, MO 63103.	
5	Q. By whom are you employed and in what capacity?	
6	A. I am employed by Ameren Services Company, a wholly-owned subsid	iary
7	of Ameren Corporation ("Ameren"), as Assistant Vice President and Treasurer. I	also
8	serve as Vice President and Treasurer of Union Electric Company d/b/a/ Ame	eren
9	Missouri ("Ameren Missouri" or "Company"). Ameren Services Company prov	ides
10	various corporate support services to Ameren's subsidiaries, including Ameren Misso	ouri,
11	such as accounting, legal, financial, and treasury services.	
12	Q. What are your current job duties and responsibilities?	
13	A. As Treasurer, I am responsible for all areas of the treasury funct	ion,
14	including corporate finance, cash and investment management, insurance, credit	risk
15	management, and investor services. Within the area of corporate finance, I	am
16	responsible for, among other things, managing Ameren's and its subsidiaries' cap	ital,
17	including their short-term and long-term financing activities, such as debt and eq	uity
18	issuances and credit facility arrangements. I am also responsible for monito	ring
19	Ameren's and its subsidiaries' liquidity positions, key credit metrics, and debt agreen	nent

- 1 compliance, managing relationships with credit rating agencies and banks, and
- 2 monitoring capital markets for key developments, emerging risks, and opportunities,
- 3 among other corporate finance-related activities.
- 4 Q. Please provide your educational background and relevant work
- 5 experience.
- 6 A. See my Statement of Qualifications, attached as Appendix A to my direct
- 7 testimony.

II. PURPOSE AND SUMMARY OF TESTIMONY

- 9 Q. What is the purpose of your direct testimony?
- 10 A. The purpose of my direct testimony is to recommend a reasonable capital
- structure for Ameren Missouri for ratemaking purposes and an appropriate overall fair
- 12 rate of return for the Company's electric utility business. The capital structure that I
- recommend is based on Ameren Missouri's forecasted debt, preferred stock, and common
- stock balances as of December 31, 2016. The actual balances as of December 31, 2016,
- 15 will be provided with the true-up data. My direct testimony also reflects, for
- informational purposes, Ameren Missouri's actual capital structure as of March 31, 2016,
- 17 the end of the test year. In recommending a fair overall rate of return, I consider Ameren
- 18 Missouri's embedded cost of long-term debt, its embedded cost of preferred stock, and
- 19 the fair return on equity recommended by Ameren Missouri witness Robert B. Hevert in
- 20 this case.
- Q. Are you sponsoring any schedules in connection with your direct
- 22 testimony?

- 1 A. Yes, I am sponsoring and have attached to my testimony the following
- 2 schedules, which have been prepared as of or for the twelve months ending December 31,
- 3 2016, as appropriate:

9

10

11

12

13

14

15

16

17

18

19

20

- Schedule RJM-1 Capital Structure/Weighted Average Cost of Capital
- Schedule RJM-2 Embedded Cost of Long-Term Debt
- Schedule RJM-3 Cost of Short-Term Debt
- Schedule RJM-4 Embedded Cost of Preferred Stock

III. RATE OF RETURN AND COST OF CAPITAL CONSIDERATIONS

- Q. What is the relationship between allowed rate of return and cost of capital in the context of utility ratemaking?
- A. Under a traditional regulatory model, the interests of customers and a utility's shareholders may be considered "balanced" when the Commission authorizes a rate of return on rate base equal to the utility's cost of capital. If the authorized rate of return is less than the utility's overall cost of capital, the financial strength and stability of the utility could degrade, making it difficult for the utility to raise necessary capital on a timely basis, at a reasonable cost, and under reasonable terms. Ultimately, the utility's inability to raise sufficient capital would impair service quality, or the increased cost of capital incurred by a financially-weakened utility would result in increased rates. Customer interests are best served when the Commission-authorized rate of return is set equal to the utility's overall cost of capital.

1 Q. Please define weighted average cost of capital.

- 2 A. Weighted average cost of capital equals the sum of the costs of the
- 3 components of an entity's capital structure, weighted by the relative contribution of each
- 4 capital source to the entity's total capitalization.
- 5 Q. How did you calculate the weighted average cost of capital for

6 Ameren Missouri?

- A. As reflected in Schedule RJM-1, I calculated Ameren Missouri's weighted
- 8 average cost of capital by (1) multiplying the relative weighting or proportion of each
- 9 component of Ameren Missouri's capital structure by the cost of that component and then
- 10 (2) summing the weighted cost of each capital component.

Q. What is the primary standard for determining a fair rate of return?

- 12 A. According to the landmark *Bluefield* and *Hope* U.S. Supreme Court
- decisions, a utility's rates must be set at a level that allows the utility to generate
- revenues sufficient to (1) maintain the financial integrity of its existing invested capital,
- 15 (2) maintain its creditworthiness, and (3) attract sufficient capital on competitive terms to
- 16 continue to provide a source of funds for continued investment and enable the company
- to meet the needs of its customers. When a utility is allowed to earn its cost of capital, it
- is generally afforded a reasonable opportunity to accomplish these objectives.
- 19 Q. From a finance perspective, why is it important that the Commission
- allow Ameren Missouri the opportunity to earn its cost of capital?
- A. By earning its cost of capital, Ameren Missouri will generate strong cash
- 22 flows and maintain the financial strength and stability necessary to, among other things,

¹ Bluefield Water Works & Improvement Co. v. Public Service Commission of West Virginia, 262 U.S. 679 (1923) and Federal Power Commission v. Hope Natural Gas Company, 320 U.S. 391 (1944).

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

- 1 attract investment to finance the business and provide reliable, high quality service to its
- 2 customers at a reasonable cost. Strong cash flows and overall financial health allow the
- 3 Company to offer an attractive and competitive, risk-adjusted return to equity investors
- 4 and also maintain strong credit metrics and investment grade credit ratings that, as
- 5 discussed further below, afford the Company on-going access to debt capital at a
- 6 reasonable cost and under reasonable terms and conditions.

7 IV. CAPITAL STRUCTURE AND CREDIT RATINGS, GENERALLY

Q. What is a utility capital structure?

also may be a component of a utility's capital structure.

- A. Capital structure refers to the mix of debt and equity capital that a utility, such as Ameren Missouri, uses to finance its assets. Because they must support long-lived assets, utility capital structures tend to include long-term securities, generally a combination of common equity and long-term debt. Although there are other forms of capital, such as preferred equity (which has both equity-like and debt-like elements), that
- Q. How do you believe the reasonableness of a public utility's capital structure should be evaluated?
- A. In evaluating the reasonableness of a public utility's capital structure, one should determine whether the capital structure is consistent with the financial strength necessary for the utility to access the capital markets under reasonable terms under most economic conditions, and, if so, whether the cost of capital resulting from such a structure is reasonable. While debt, relative to equity, is generally a less expensive form of capital due in part to the tax deductibility of interest expense, incremental debt increases a firm's probability of default and the related costs of financial distress.

- 1 Beyond a certain point, dependence on debt as a source of capital increases the risk
- 2 associated with a utility's cash flow, which correspondingly increases a utility's overall
- 3 cost of capital.

19

20

21

22

4 Q. Does Ameren Missouri seek to maintain a certain capital structure?

- Yes. Ameren Missouri's capital structure is composed of debt, preferred 5 A. 6 stock, and common equity. Ameren Missouri specifically and continuously maintains the 7 balance of debt and equity in its capital structure to minimize its overall cost of capital 8 and, at the same time, maintain financial strength and stability. Maintaining financial 9 strength and stability includes maintaining strong credit metrics and secure investment 10 grade credit ratings that will allow the Company to attract new capital at a reasonable 11 cost and on reasonable terms, and ensure that Ameren Missouri has access to the capital 12 markets under varying economic conditions.
- Q. Why is it necessary for Ameren Missouri to attract new capital?
- A. As a public utility, Ameren Missouri is required to continuously provide safe, adequate, and reliable service to its customers. Ameren Missouri needs substantial capital to do this. It is essential that Ameren Missouri be able to attract the capital necessary to meet these significant service and investment commitments.
 - Q. Why is it necessary that Ameren Missouri be able to access the capital markets during all economic conditions?
 - A. Ameren Missouri's service commitments to its customers do not cease in an economic downturn. Ameren Missouri must be able to attract the capital necessary to meet those commitments under varying economic conditions, including periods of market

- distress, when access to the capital markets may be severely limited for weaker-rated
- 2 issuers.
- 3 Q. How does a balanced capital structure help ensure Ameren Missouri
- 4 access to the capital it needs at a reasonable cost and during market fluctuations?
- 5 A. Capital structure is one metric that credit rating agencies evaluate when
- 6 assessing an issuer's credit profile and assigning a credit rating. A balanced capital
- 7 structure signals a certain degree of financial health and mitigates the risk of financial
- 8 distress. Capital structure also influences other credit metrics on which credit ratings are
- 9 based. Credit ratings, in turn, are used by investors to evaluate the creditworthiness of an
- 10 issuer and make investment decisions.

11 Q. What is a credit rating?

- A. A credit rating is an evaluation by a credit rating agency of a company's
- ability to meet its financial obligations in a timely manner. It reflects the opinion of the
- rating agency of the overall creditworthiness of the company based on the company's
- 15 relevant business and financial risks. A credit rating can be specific to a particular
- security or to a particular securities issuer.

17 Q. Why do credit ratings matter?

- A. Credit ratings have a significant effect on a company's ability to attract
- debt capital, and, in extreme cases, whether the company can access debt capital at all.
- 20 Credit ratings also impact the pricing and contractual terms at which a company may
- 21 issue debt securities. This affects the cost of capital and, in Ameren Missouri's case, the
- 22 rates customers must pay for utility service. In general, a stronger credit rating typically
- enables a utility to obtain debt capital at a lower cost, to the benefit of customers.

12

Q. How are credit ratings determined?

- 2 A. The two primary credit rating agencies are Standard and Poor's Ratings
- 3 Services ("S&P") and Moody's Investor Services ("Moody's"). In assessing a
- 4 company's ability to meet its financial obligations, S&P and Moody's generally but
- 5 each to varying degrees consider both qualitative factors affecting the company's
- 6 business risk and quantitative factors affecting its financial risk.

7 Q. How do a company's credit metrics affect its credit ratings?

- 8 A. Credit metrics factor significantly into the credit rating agencies'
- 9 evaluations of a company's credit profile and the rating agencies' assignment of credit
- 10 ratings. The credit rating agencies generally deem strong credit metrics necessary to
- 11 maintain investment grade credit ratings.

Q. What is an "investment grade" credit rating?

- A. An investment grade credit rating is a rating of BBB- or stronger from
- 14 S&P or a rating of Baa3 or stronger from Moody's. An investment grade credit rating
- implies a certain degree of financial strength and stability and reasonable assurance of an
- 16 issuer's ability to satisfy its debt obligations. Investment grade credit ratings, therefore,
- 17 tend to attract capital to a company. For Ameren Missouri, investment grade credit
- ratings provide reasonable assurance that it will be able to access the capital markets on a
- 19 timely basis, at a reasonable cost, and under reasonable terms and conditions. Again, for
- 20 Ameren Missouri, on-going access to the debt capital markets benefits its customers by
- supporting reliable service, and lower debt costs achievable with investment grade credit
- ratings contribute to lower utility rates.

1	Q. Does Ameren Missouri target investment grade issuer credit ratings
2	when it maintains its capital structure?
3	A. Yes. As explained, access to sufficient capital is critical to Ameren
4	Missouri's financial health and stability and, in turn, to the service that its customers
5	receive and the rates customers pay for that service. Therefore, in my opinion, Ameren
6	Missouri's issuer credit ratings should be securely investment grade (at least two notches
7	stronger than S&P's and Moody's weakest investment grade issuer credit rating) to
8	continue to support the financial integrity of the utility and ensure it access to necessary
9	capital at a reasonable cost and on reasonable terms in both strong and weak markets.
10	Q. What are Ameren Missouri's current issuer credit ratings?
11	A. Currently, Ameren Missouri's issuer credit ratings at Moody's and S&P
12	are Baa1 and BBB+, respectively. Both credit rating agencies report stable outlooks for
13	Ameren Missouri's credit ratings.
14	Q. Do you consider Ameren Missouri's current issuer credit ratings to be
15	securely investment grade?
16	A. Yes.
17 18	V. AMEREN MISSOURI'S ACTUAL AND FORECASTED CAPITAL STRUCTURE
19	Q. What was Ameren Missouri's capital structure as of March 31, 2016,
20	the end of the proposed test year in this case?
21	A. The table below shows Ameren Missouri's actual capital structure as of
22	March 31, 2016:

8

10

11

12

13

14

	 Balance	%
Long-term debt	\$ 3,495,023,533	46.90%
Short-term debt	\$ -	0.00%
Preferred Stock	\$ 81,827,509	1.10%
Common equity	\$ 3,875,406,203	52.00%
Total	\$ 7,452,257,245	100.00%

- Q. How does Ameren Missouri's capital structure as of March 31, 2016,
- 3 compare to the capital structure approved for Ameren Missouri by the Commission
- 4 pursuant to the Commission's most recent rate order?
- A. A comparison of Ameren Missouri's capital structure as of March 31,
- 6 2016, to the capital structure most recently approved by the Commission, which was
- 7 based on actual balances as of December 31, 2014, is as follows:

	 As of March 31,	2016	As of December 31, 2014				
	Balance	%	Balance			%	
Long-term debt	\$ 3,495,023,533	46.90%	\$	3,614,494,332		47.18%	
Short-term debt	\$ -	0.00%	\$	-		0.00%	
Preferred Stock	\$ 81,827,509	1.10%	\$	81,827,509		1.07%	
Common equity	\$ 3,875,406,203	52.00%	\$	3,965,439,766		51.76%	
Total	\$ 7,452,257,245	100.00%	\$	7,661,761,607		100.00%	

9 The approximately \$119 million decrease in long-term debt from December 31,

2014, to March 31, 2016, is attributable primarily to the re-payment of a total of \$374

million of senior secured notes that matured in April of 2015 and February of 2016, net

of an issuance of \$250 million of senior secured notes in April of 2015. The

approximately \$90 million decrease in common equity from December 31, 2014, to

March 31, 2016, is primarily attributable to dividends paid during the period, net of net

income generated.

- Q. What capital structure are you recommending in this case?
- 2 A. I recommend that Ameren Missouri's actual capital structure as of the
- 3 recommended true-up date of December 31, 2016, be used in this case.
- 4 Q. How do you expect Ameren Missouri's capital structure to change
- 5 when the balances are trued-up through December 31, 2016?
- A. Based on current projections, I expect Ameren Missouri's capital structure as of the December 31, 2016, true-up date to be as follows:

	 As of December 31	, 2016	As of March 31, 2016				
	Balance %			Balance	%		
Long-term debt	\$ 3,647,651,680	47.14%	\$	3,495,023,533	46.90%		
Short-term debt	\$ -	0.00%	\$	-	0.00%		
Preferred Stock	\$ 81,827,509	1.06%	\$	81,827,509	1.10%		
Common equity	\$ 4,008,376,639	51.80%	\$	3,875,406,203	52.00%		
Total	\$ 7,737,855,828	100.00%	\$	7,452,257,245	100.00%		

9

10

11

12

13

14

15

16

17

18

19

20

Note that the equity percentage as of December 31, 2016, is expected to be 51.80%, nearly identical to the equity percentage of 51.76% approved by the Commission in the most recently decided rate case. The anticipated increase in long-term debt of approximately \$153 million from March 31, 2016, to December 31, 2016, is primarily attributable to the issuance of \$150 million of senior secured notes in June 2016. The expected common equity increase of approximately \$133 million from March 31, 2016, to December 31, 2016, is attributable primarily to net income expected to be earned during the period, offset by dividends forecasted to be paid.

Q. What constitutes a healthy capital structure for a regulated utility?

A. Again, a healthy capital structure for a regulated utility is one that results in a reasonable balance between the overall cost of capital and the expected costs of financial distress.

	Ryan J. Martin							
1	Q.	Why do you believe that the capital structure recommended in your						
2	testimony is	appropriate?						
3	A.	The capital structure recommended in my testimony reflects a reasonable						
4	balance between cost of capital and financial strength and stability. It allows Ameren							
5	Missouri to take advantage of the lower costs of debt financing without elevating the risk							
6	of default and the related costs of financial distress to an unreasonable level that would							
7	impair the creditworthiness and financial integrity of the Company.							
8	VI.	BALANCE AND EMBEDDED COST OF LONG-TERM DEBT						
9	Q.	How was the balance of long-term debt determined?						
10	A.	The long-term debt balance of \$3,647,651,680 reflected in the proposed						
11	Ameren Mis	ssouri capital structure represents the projected total carrying value of the						
12	Company's	long-term debt as of December 31, 2016. As detailed in Schedule RJM-2,						
13	the carrying	value of long-term debt was computed using the net proceeds method, which						
14	adjusts the fa	ace amount of long-term debt to properly account for unamortized discounts						
15	and premiur	ns, long-term debt issuance expenses, and any gains or losses incurred in						
16	connection v	with long-term debt redemptions.						
17	Q.	Did you make any adjustments to Ameren Missouri's actual long-						
18	term debt	balance in determining the long-term debt balance proposed in this						
19	proceeding							
20	A.	I did not include in the proposed long-term debt balance the Company's						
21	obligations (under capital leases related to the Chapter 100 financing of its Peno Creek						
22	(City of Bo	wling Green) and Audrain County gas-fired generating facilities. These						

transactions and related capital leases did not generate any proceeds, nor were they a

- 1 source of new capital for the Company. This treatment is consistent with that reflected in
- 2 the Company's most recent rate case order.

3 Q. How was the embedded cost of long-term debt determined?

- 4 A. As reflected in Schedule RJM-2, the embedded cost of long-term debt of
- 5 5.391% was computed by dividing forecasted annualized interest expense as of
- 6 December 31, 2016, by the forecasted long-term debt carrying value as of such date.
- 7 Included in Ameren Missouri's forecasted long-term debt balance as of
- 8 December 31, 2016, are two series of variable rate environmental improvement bonds
- 9 with a forecasted total outstanding principal balance as of such date of \$207.5 million.
- The interest rates of the issues are reset by a Dutch auction process every 35 days. The
- effective interest cost assumed for this indebtedness for purposes of this proceeding is
- 12 consistent with actual rates for these securities as of June 1, 2016, including related
- auction broker/dealer fees. These interest rates, as well as all other elements of the
- embedded cost of long-term debt, will be updated as part of the true-up.

VII. BALANCE OF SHORT-TERM DEBT

16 Q. How was the balance of short-term debt determined?

- 17 A. The balance of short-term debt of \$0 reflected in the proposed Ameren
- 18 Missouri capital structure represents the forecasted average short-term debt balance
- during the year ending December 31, 2016, net of cash and construction work in progress
- 20 balances. As reflected in Schedule RJM-3, the Company expects to have no net short-
- 21 term borrowings during the period.

15

1 VIII. DALANCE AND ENIDEDDED COST OF I KEFEKKED STO	1	VIII.	BALANCE	AND EMBEDDED	COST OF PREFERRED S	STOCK
--	---	-------	---------	--------------	---------------------	-------

- 2 Q. How was the balance of preferred stock determined?
- A. The preferred stock balance of \$81,827,509 reflected in Ameren
- 4 Missouri's proposed capital structure reflects the expected carrying value of, and the net
- 5 proceeds received for, Ameren Missouri's projected preferred stock outstanding as of
- 6 December 31, 2016. The calculation of the preferred stock balance is shown in Schedule
- 7 RJM-4.
- 8 Q. How was the embedded cost of Ameren Missouri's preferred stock
- 9 **determined?**
- 10 A. As reflected in Schedule RJM-4, the embedded cost of preferred stock of
- 4.180% was computed by dividing forecasted annualized dividends by the net proceeds
- received for forecasted preferred stock outstanding as of December 31, 2016.
- Q. Did you consider expenses incurred in connection with Ameren
- 14 Missouri's issuance of preferred stock in calculating the embedded cost of this
- 15 component of the Company's capital structure?
- 16 A. Yes. As reflected in Schedule RJM-4, considered in the embedded cost of
- 17 preferred stock is not only the cost of dividends but also the cost of preferred stock
- 18 issuance, including discounts, premiums, expenses, and any losses incurred in connection
- 19 with redeeming prior preferred stock series. Unlike similar costs incurred in connection
- 20 with the issuance and redemption of long-term debt, these expenses are not amortized
- 21 over the life of the security due to the perpetual nature of preferred stock. Nonetheless, it
- 22 is important and appropriate to consider these costs in order to accurately quantify the

- 1 true economic cost of Ameren Missouri's preferred stock and establish a fair overall rate
- 2 of return for the Company.

3 IX. BALANCE AND COST OF COMMON EQUITY

- 4 Q. How was the balance of Ameren Missouri's common equity
- 5 determined?
- A. The common equity balance of \$4,008,376,639 reflected in Ameren
- 7 Missouri's proposed capital structure reflects Ameren Missouri's forecasted book value
- 8 of common equity as of December 31, 2016. Common equity is generally reflected net
- 9 of accumulated other comprehensive income ("AOCI"), but AOCI is projected to be zero
- 10 as of December 31, 2016.
- 11 Q. How was the cost of common equity determined?
- 12 A. In his testimony in this case, Mr. Hevert states that the cost of common
- equity capital for Ameren Missouri's integrated electric operations is currently within the
- range of 9.750% to 10.500% and recommends that the Commission allow Ameren
- 15 Missouri the opportunity to earn a return on common equity of 9.900%. As a
- 16 consequence, in forecasting Ameren Missouri's overall weighted average cost of capital
- for its electric business, I have assumed a cost of common equity of 9.900%, and Ameren
- 18 Missouri requests that the Commission approve a return on common equity of 9.900% in
- 19 this case.

1		X. FAIR RATE OF RETURN
2	Q.	What do you propose is a fair overall rate of return for Ameren
3	Missouri in	this case?
4	A.	I believe a return of 7.713%, which is equivalent to Ameren Missouri's
5	forecasted v	veighted average cost of capital as of December 31, 2016, is fair and
6	reasonable.	The calculation of the Company forecasted weighted average cost of capital,
7	considering	the debt, preferred stock, and common equity balances and costs set forth
8	above, is ref	lected in Schedule RJM-1.
9		XI. CONCLUSION
10	Q.	Does this conclude your direct testimony?
11	A.	Yes, it does.
12		

1 APPENDIX A

2 STATEMENT OF QUALIFICATIONS

3 RYAN J. MARTIN

My name is Ryan J. Martin. My business address is One Ameren Plaza, 1901 Chouteau Avenue, St. Louis, Missouri, 63103. I am employed by Ameren Services Company a Vice President and Treasurer. As Treasurer, I am responsible for all areas of the treasury function of Ameren Corporation and its subsidiaries, including corporate finance, cash and investment management, insurance, credit risk management, and investor services. Within the area of corporate finance, I am responsible for, among other things, managing Ameren Corporation's and its subsidiaries' capital, including their short-term and long-term financing activities, such as debt and equity issuances and credit facility arrangements. I am also responsible for monitoring Ameren and its subsidiaries' liquidity positions, key credit metrics, and debt agreement compliance, managing relationships with credit rating agencies and banks, and monitoring capital markets for key developments, emerging risks, and opportunities, among other corporate finance-related activities.

I received my Bachelor of Business Administration degree, with a concentration in Accountancy, in 1995 from the University of Notre Dame. I received my Master of Business Administration degree, with concentrations in finance, marketing, and strategy, in 2004 from Northwestern University's Kellogg School of Management.

I have more than 20 years of experience in various audit, accounting, financial reporting, and finance roles. I began my career in 1995 at Arthur Andersen LLP and worked in the firm's Audit and Business Advisory practice for six years. I left Arthur

Direct Testimony of Ryan J. Martin

Andersen in 2000 to join Career Education Corporation, a public company that owns and 1 2 operates for-profit, post-secondary schools. At Career Education Corporation, I managed 3 the company's accounting, financial reporting, and corporate finance functions and at 4 various times was also responsible for accounts payable, payroll, and insurance. In 2007, I joined Ameren Services as Assistant Controller. In that role, I managed the Company's 5 6 general accounting function and plant accounting function and was also responsible for 7 accounting research and policy. In March of 2010, I joined the Treasury department of 8 Ameren Services as the Assistant Treasurer and Manager of Corporate Finance. I was 9 promoted to the role of Assistant Vice President and Treasurer in 2013, and I was 10 promoted to the role of Vice President and Treasurer in 2016.

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

In the Matter of Union Elect Missouri's Tariffs to Increas Electric Service.) File No. ER-2016-0179									
	AFFIDAVIT OF RYAN J. I	MARTIN								
STATE OF MISSOURI)									
CITY OF ST. LOUIS) ss)									
Ryan J. Martin, being first d	luly sworn on his oath, states:									
1. My name is	1. My name is Ryan J. Martin. I am employed by Ameren Services as Vice									
President and Treasurer.										
2. Attached her	2. Attached hereto and made a part hereof for all purposes is my Direct Testimony									
on behalf of Union Electric	Company, d/b/a Ameren Misse	ouri, consisting of 18 pages and								
Schedule(s)RJM-1 to R	JM-4 , all of wh	nich have been prepared in written								
form for introduction into e	vidence in the above-reference	d docket.								
3. I hereby swe	ar and affirm that my answers	contained in the attached testimony to								
the questions therein propounded are true and correct. Ryan J. Martin										
Subscribed and sworn to before me this 30 day of Tune, 2016. Stephanic A. Gifford Notary Public STEPHANIE A. GIFFORD Notary Public - Notary Seal State of Missouri Commission Expires: January 30, 2020 Commission Number: 11479771										

Union Electric Company d/b/a Ameren Missouri Weighted Average Cost of Capital

at 12/31/2016:

		PERCENT		WEIGHTED
CAPITAL COMPONENT	AMOUNT	OF TOTAL	COST	COST
Long-Term Debt	\$3,647,651,680	47.140%	5.391%	2.541%
Short-Term Debt	\$0	0.000%	0.000%	0.000%
Preferred Stock	\$81,827,509	1.057%	4.180%	0.044%
Common Equity	\$4,008,376,639	51.803%	9.900%	5.128%
TOTAL	\$7,737,855,828	100.000%		7.713%

Union Electric Company d/b/a Ameren Missouri Embedded Cost of Long-Term Debt

at December 31, 2016

					FACE AMOUNT	UNAM	IORTIZED BALANCI	ES	CARRYING	ANNUALIZED	ANNU	ALIZED AMORTIZ	ATION	ANNUALIZED	EMBEDDED
SERIES	COUPON (a)	ISSUED	MATURITY	PRINCIPAL	OUTSTANDING	DISC/(PREM)	ISSUE EXP.	LOSS	VALUE	COUPON INT.(b)	DISC/(PREM)	ISSUE EXP	LOSS	EXPENSE	COST
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
Senior Secured Notes	6.400%	15-Jun-07	15-Jun-17	\$425,000,000	\$425,000,000	\$18,696	\$157,176			\$27,200,000	\$37,392	\$314,352			
Senior Secured Notes	6.000%	08-Apr-08	01-Apr-18	\$250,000,000	\$178,520,000	\$67,380	\$169,365			\$10,711,200	\$53,904	\$135,492			
Senior Secured Notes	5.100%	28-Jul-03	01-Aug-18	\$200,000,000	\$198,657,000	\$11,115	\$180,595			\$10,131,507	\$7,020	\$114,060			
Senior Secured Notes	6.700%	19-Jun-08	01-Feb-19	\$450,000,000	\$329,283,000	\$189,900	\$488,500			\$22,061,961	\$91,152	\$234,480			
Senior Secured Notes	5.100%	23-Sep-04	01-Oct-19	\$300,000,000	\$244,311,000	\$19,239	\$364,452			\$12,459,861	\$6,996	\$132,528			
Senior Secured Notes	5.000%	27-Jan-05	01-Feb-20	\$85,000,000	\$85,000,000	\$138,380	\$146,927			\$4,250,000	\$44,880	\$47,652			
Senior Secured Notes	3.500%	04-Apr-14	15-Apr-24	\$350,000,000	\$350,000,000	\$45,675	\$2,107,836			\$12,250,000	\$6,300	\$290,736			
First Mortgage Bonds	5.450%	15-Oct-93	01-Oct-28	\$44,000,000	\$5,000	\$13	\$24			\$273	\$1	\$2			
Senior Secured Notes	5.500%	10-Mar-03	15-Mar-34	\$184,000,000	\$184,000,000	\$1,140,570	\$1,001,052			\$10,120,000	\$66,120	\$58,032			
Senior Secured Notes	5.300%	21-Jul-05	01-Aug-37	\$300,000,000	\$300,000,000	\$654,056	\$1,917,955			\$15,900,000	\$31,776	\$93,180			
Senior Secured Notes	8.450%	20-Mar-09	15-Mar-39	\$350,000,000	\$350,000,000	\$864,279	\$2,578,419			\$29,575,000	\$38,844	\$115,884			
Senior Secured Notes	3.900%	11-Sep-12	15-Sep-42	\$485,000,000	\$485,000,000	\$2,189,574	\$4,147,707			\$18,915,000	\$85,032	\$161,076			
Senior Secured Notes	3.650%	06-Apr-15	15-Apr-45	\$250,000,000	\$250,000,000	\$555,621	\$2,632,674			\$9,125,000	\$19,668	\$93,192			
Senior Secured Notes	3.650%	30-Jun-16	15-Apr-45	\$150,000,000	\$150,000,000	\$0	\$1,879,308			\$5,475,000	\$0	\$66,383			
Environmental Improvement, Series 1992	0.950%	01-Dec-92	01-Dec-22	\$47,500,000	\$47,500,000		\$129,007			\$527,250		\$21,804			
Environmental Improvement, Series 1998 ABC	0.951%	04-Sep-98	01-Sep-33	\$160,000,000	\$160,000,000		\$924,200			\$1,858,000		\$55,452			
TOTAL LONG-TERM DEBT				\$4,030,500,000	\$3,737,276,000	\$5,894,498	\$18,825,197	64,904,625	\$3,647,651,680	\$190,560,052	\$489,085	\$1,934,305	\$3,652,932	\$196,636,374	5.391%

Carrying Value = Face Amount Outstanding less Unamortized Discount, Issuance Expenses, and Loss on Reacquired Debt C10 = C6 - C7 - C8 - C9

Annualized Expense = Annual Coupon Interest plus Annual Amortization of Discount, Issuance Expenses, and Loss on Reacquired Debt C15 = C11 + C12 + C13 + C14

Embedded Cost = Annualized Expense divided by Carrying Value

C16 = C15 / C10

- Denotes estimates

⁽a) Coupon rate for variable rate auction securities reflects prevailing rates as of 6/01/16 and includes ongoing broker dealer fees.

⁽b) Annualized coupon interest (C11) includes annual bond insurance premiums, where applicable.

Union Electric Company d/b/a Ameren Missouri Cost of Short-term Debt

	BALANCE OF	BALANCE	BALANCE OF			
	SHORT-TERM	OF TOTAL	CWIP ACCRUING	NET AMOUNT	INTEREST	
MONTH	DEBT (a)	CWIP	AFUDC	OUTSTANDING	RATE	
C1	C2	C3	C4	C5	C6	
January 2016	\$0	\$717,268,993	\$806,857,428	\$0		
February	\$73,800,000	\$715,750,082	\$671,076,685	\$0	0.830%	
March	\$164,800,000	\$536,013,068	\$603,990,562	\$0	0.680%	
April	\$194,700,000	\$525,212,937	\$542,822,037	\$0	0.790%	
May	\$198,500,000	\$422,144,643	\$354,601,500	\$0	0.700%	
June	\$166,720,816	\$391,971,535	\$329,256,089	\$0	0.700%	
July	\$61,504,494	\$415,323,493	\$348,871,734	\$0	0.700%	
August	\$0	\$454,277,505	\$381,593,104	\$0		
September	\$0	\$496,276,672	\$416,872,404	\$0		
October	\$0	\$551,492,233	\$463,253,476	\$0		
November	\$0	\$583,572,859	\$490,201,202	\$0		
December	\$0	\$345,473,801	\$290,197,993	\$0		
AVERAGE	\$71,668,776	\$551,393,543	\$474,966,185	\$0		

C5 Net Amount Outstanding = Balance of Short-Term Debt less Balance of CWIP Accruing AFUDC C5 = C2 - C4

- Denotes estimates

⁽a) Short-term debt amounts are net of cash and short-term investments. Negative amounts are excluded.

Union Electric Company d/b/a Ameren Missouri Embedded Cost of Preferred Stock

at December 31, 2016

				SHARES	PAR ISSUED/		ISSUANCE		ANNUAL	EMBEDDED
SERIES, TYPE, PAR	DIVIDEND	ISSUED	MATURITY	OUTSTANDING	OUTSTANDING	PREMIUM	EXPENSE/DISCOUNT	NET PROCEEDS	DIVIDEND	COST
C1	C2	C3	C4	C5	C6	C 7	C8	C9	C10	C11
\$3.50 Series, Perpetual, \$100 par	\$3.500	01-May-46	-	130,000	\$13,000,000	(\$910,000)	\$252,772	\$13,657,228	\$455,000	
\$3.70 Series, Perpetual, \$100 par	\$3.700	01-Oct-45	-	40,000	\$4,000,000	(\$70,000)	\$69,396	\$4,000,604	\$148,000	
\$4.00 Series, Perpetual, \$100 par	\$4.000	01-Nov-49	-	150,000	\$15,000,000	(\$384,000)	\$326,896	\$15,057,104	\$600,000	
\$4.30 Series, Perpetual, \$100 par	\$4.300	01-Jul-46	-	40,000	\$4,000,000			\$4,000,000	\$172,000	
\$4.50 Series, Perpetual, \$100 par	\$4.500	01-May-41	-	213,595	\$21,359,500	(\$825,000)	\$440,294	\$21,744,206	\$961,178	
\$4.56 Series, Perpetual, \$100 par	\$4.560	01-Nov-63	-	200,000	\$20,000,000	(\$266,000)	\$297,633	\$19,968,367	\$912,000	
\$4.75 Series, Perpetual, \$100 par	\$4.750	01-Oct-49	-	20,000	\$2,000,000			\$2,000,000	\$95,000	
\$5.50 Series, Perpetual, \$100 par	\$5.500	01-Oct-41	-	14,000	\$1,400,000			\$1,400,000	\$77,000	
TOTAL PREFERRED STOCK					\$80,759,500	(\$2,455,000)	\$1,386,991	\$81,827,509	\$3,420,178	4.180%

issuance expenses, discount/premium, and any loss incurred in acquiring/redeeming prior series are not amortized due to the perpetual nature of the company's preferred stock

Net Proceeds = Par Value Outstanding plus Premium less Issuance Expense and Discount

C9 = C6 + C7 - C8

Embedded Cost = Annual Dividend divided by Net Proceeds

C11 = C10 / C9