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Witness: Natelle Dietrich
Sponsoring Party: MoPSC Staff

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MISSOURI PUBLIC SERVICE COMMISSION COMMISSION STAFF DIVISION

DIRECT TESTIMONY

OF

NATELLE DIETRICH

UNION ELECTRIC COMPANY D/B/A AMEREN MISSOURI CASE NO. ER-2016-0179

Jefferson City, Missouri December 2016

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1	DIRECT TESTIMONY				
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3		NATELLE DIETRICH			
4		UNION ELECTRIC COMPANY D/B/A AMEREN MISSOURI			
5		CASE NO. ER-2016-0179			
6	Q.	Please state your name and business address.			
7	A.	My name is Natelle Dietrich. My business address is 200 Madison Street,			
8	Jefferson City, MO 65101.				
9	Q.	By whom are you employed and in what capacity?			
10	A.	I am employed by the Missouri Public Service Commission ("Commission") as			
11	Commission Staff Director.				
12	Q.	Please state your name and business address.			
13	A.	My name is Natelle Dietrich. My business address is 200 Madison Street,			
14	Jefferson City, MO 65101.				
15	Q.	By whom are you employed and in what capacity?			
16	A.	I am employed by the Missouri Public Service Commission ("Commission") as			
17	Commission Staff Director.				
18	Q.	Have you provided your educational background and work experience in this file?			
19	A.	Yes. My educational and work experience is included in my Direct Testimony			
20	filed on December 9, 2016, in this case with Staff's Direct Revenue Requirement Report.				
21	EXECUTIV	VE SUMMARY			
22	Q.	What is the purpose of this direct testimony?			

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Natelle Dietrich 1 A. The purpose of this testimony is to sponsor the Staff's recommended rate design 2 as developed by Staff and described in the Class Cost-of-Service/Rate Design Report 3 ("CCOS Report") and to sponsor Staff's Report Responding to Certain Commission Questions 4 ("Responsive Report"), both of which are filed concurrently with this direct testimony. 5 Consistent with Staff's Cost of Service Report filed December 9, 2016, the CCOS Report also 6 includes Staff's recommendations concerning Ameren Missouri's Fuel and Purchased Power 7 Adjustment Clause ("FAC") and its FAC tariff. 8 **CCOS REPORT** 9 What is Staff's rate design recommendation in this case? Q. 10

- A. Staff recommends an adjustment of rates as follows:
- 1. A revenue neutral shift in revenue responsibility from the Small General Service ("SGS") class to the Large Transmission Service ("LTS") class by approximately \$36,000 based on Staff's Class Cost of Service ("CCOS") Study results at the studied revenue requirement. This represents a 2.6% revenue neutral increase to the LTS class, and a 0.01% reduction to the SGS class.
- 2. The Residential customer charge increase at the same percentage as the Residential class's revenue requirement, but only up to \$8.21 from the current \$8.
 - 3. The Commission adopt Staff's recommended changes to Rider FAC.
- 4. Ameren Missouri evaluate, as part of its next rate case, the reasonableness and practicality of moving toward Seasonal and Shoulder rates.
- 5. Modifying the "Fuel and Purchased Power Adjustment (Rider FAC)" definition of LTS tariff Sheet No. 62 to read "Applicable to 103.5% of metered kilowatt-hours (kWh) of energy."

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STAFF RATE DESIGN AND CCOS REPORT 1 2 Q. How is the Staff's CCOS Report organized? A. 3 The CCOS Report is organized by topic as follows: 4 I. **Executive Summary** 5 II. Class Cost-of-Service Study Results 6 III. Staff's Class Cost-of-Service Study 7 IV. Rate Design 8 V. Fuel and Purchased Power Adjustment Clause Tariff **Sheet Recommendations** 9 10 CLASS COST-OF-SERVICE STUDY 11 Q. Did Staff perform a CCOS Study in this case? 12 A. Yes. Staff's CCOS Study is designed to determine what rate of return is produced 13 by each customer class on that class's currently tariffed rates, for recovery of any newly 14 determined revenue requirement amount. Staff's recommended interclass revenue responsibility 15 shifts are designed to reasonably bring each class closer to producing the system-average rate of 16 return used in determining Staff's recommended revenue requirement. Staff's recommended 17 intra-class shifts will, where appropriate, redesign the rates that collect a particular class's 18 revenues to better align that class's method of recovering revenue with the cost-causation for that 19 class as indicated by the CCOS Study. Staff's intra-class recommendations largely focus on 20 customer charge valuation.

STAFF'S REPORT RESPONDING TO CERTAIN COMMISSION QUESTIONS

Q. Please summarize Staff's Responsive Report.

- A. The Commission issued two orders seeking additional information from Staff. The first, issued on August 29, 2016, directed Staff to address certain issues related to Advanced Metering Infrastructure ("AMI") smart meters; a Plug-in Electric Vehicle Rate ("PEV"); residential Time-of-Use ("ToU") and Time-of-Day ("ToD") Rate Design; Property Assessed Clean Energy ("PACE") and Pay as You Save ("PAYS"). The second, issued on September 7, 2016, directed Staff to submit an Infrastructure Efficiency Tariff that would provide for a discounted volumetric rate or customer charge, or a waiver or reduction of line extension-related charges, or some other mechanism to reduce bills of customers accessing infrastructure identified as under-utilized. Following is a summary of some of the key Staff observances as noted in the Responsive Report.
- 1. AMI "Smart" Metering: For purposes of the Responsive Report, Staff sets forth definitions of various types of meters, then provides a discussion as to what is considered "smart" about those meters. Specific to Ameren Missouri, the Responsive Report notes that Ameren Missouri uses Automated Meter Reading ("AMR") technology, while the other Missouri investor-owned utilities ("IOUs") have various combinations of manual meter reading, AMR and AMI. Due to consumer concerns, a non-standard meter program was approved in the most recent KCP&L Greater Missouri Operations ("GMO") rate case, Case No. ER-2016-0156. In the Responsive Report, Staff recommends Ameren Missouri implement the same type of program with a cost-based fee recovery to be borne by customers who participate in the program.
- 2. PEV: Staff analyzed the Georgia Plug-In Electric Vehicle TOU rate. In the Responsive Report, Staff explains the Georgia model and states, that the Georgia model provides an example of how a PEV-ToU rate could be implemented in Missouri. Staff recommends

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- Ameren Missouri gather data and report annually to the Commission and interested stakeholders on the impact of EVs on grid reliability.
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- 22 Shrewsbury, and a manufacturing facility retrofit in Chesterfield.

- 3. Residential ToU or ToD rate design: Ameren Missouri has an optional ToD
- service that is available to nearly all classes of customers. Ameren Missouri's tariff limits
- participation to 5,000 customers; however, as explained in the Responsive Report, actual
- 6 participation exceeds this limitation. Further, participation is not available to customers with a
 - current net metering agreement, and requires certain metering configurations. The on-peak/off
 - peak rate is only applicable to summer billing months. Ameren Missouri does not currently offer
 - any hourly, real time or critical peak plans in Missouri. Ameren Missouri's residential customers
 - are generally metered with AMR technology. A barrier to broader implementation of ToD rates
 - would be the capability and cost of Ameren Missouri's contracted meter reading provider to
 - provide multiple reads per day from existing AMR meters. Staff suggests Ameren Missouri
 - initiate a mandatory geographically-limited dynamic pricing program to explore the applicability
 - of such a program to mitigate upgrades to the distribution system.
 - 4. PACE: PACE financing is designed to make payments affordable by offering
 - a fixed interest rate that is payable over an extended period of time. Home improvement energy
 - efficiency measures are permanently installed and assessed to the property. The assessment
- 18 transfers homeowners when the home sells. Staff's Responsive Report discusses current
 - residential PACE programs, and discusses plans to implement the program in other parts of
 - Missouri. Commercial PACE projects in Ameren Missouri's service territory include an office
 - building retrofit in Maryland Heights, a large warehouse and office building retrofit in

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- 5. PAYS: PAYS enables utility customers to purchase and install cost-effective energy efficiency upgrades or distributed renewable energy assets through a voluntary program that assures immediate net savings to customers. The utility pays the up-front costs of the upgrades, then places a fixed charge on the customer's electric bill. The Responsive Report outlines the core elements and general terms and conditions of the program. Currently, no Missouri investor-owned utilities participate in the PAYS program.
- 6. Infrastructure efficiency tariff: In the Responsive Report, Staff explains its review, including a discussion of CCOS studies, customer-related distribution revenue requirement ranges, and customer-related distribution facilities. Staff notes the Commission's inquiry requires a level of data not currently available to Staff, and a set of assumptions not typically made in designing rates. Staff expects to continue discussions with Ameren Missouri concerning identification of specific areas to be targeted for redevelopment both in the St. Louis area and throughout its service territory. Staff recommends that if a volumetric or monthly bill-based discount is to be implemented, such discount be proportionate to the functionalized customer-related distribution costs for each broad category of class, applied as a percentage to the customer's monthly bill after application of all other applicable surcharges, discounts and riders. For Ameren Missouri, Staff recommends a discount of approximately 2% for residential customers, 2% for SGS customers and .5% for all other customer classes. Staff recommends Ameren Missouri modify its facility extension tariff provisions to more fully consider the incremental costs a customer causes to a system in determining how much, if any, customer advance is required.
 - Q. Does this conclude your direct testimony?
 - 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 Increase Its Revenues for Electric Service		Case No. ER-2016-0179
A FEIDAVIT OF N	ATEL	I F NIETDICH

STATE OF MISSOURI) ss. COUNTY OF COLE)

COMES NOW NATELLE DIETRICH and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Direct Testimony; and that the same is true and correct according to her best knowledge and belief.

Further the Affiant sayeth not.

NATELLE DIETRICH

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this day of December, 2016.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

Notacy Public