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Exhibit No .: Issue(s):

Advanced Metering Infrastructure

Daniel I. Beck, PE Witness: MoPSC Staff

Sponsoring Party: Type of Exhibit:

Supplemental Surrebuttal Testimony

ER-2019-0335 Case No.:

Date Testimony Prepared:

February 20, 2020

MISSOURI PUBLIC SERVICE COMMISSION

INDUSTRY ANALYSIS DIVISION ENGINEERING ANALYSIS DEPARTMENT

SUPPLEMENTAL SURREBUTTAL TESTIMONY

OF

DANIEL I. BECK, PE

UNION ELECTRIC COMPANY, d/b/a Ameren Missouri

CASE NO. ER-2019-0335

Jefferson City, Missouri February 2020

Staff Exhibit No. 128
Date 3 | 4 | zo Reporte Sm
File No. ER. 2019-0335

1		SUPPLEMENTAL SURREBUTTAL TESTIMONY OF
2		DANIEL I. BECK, PE
3 4		UNION ELECTRIC COMPANY, d/b/a Ameren Missouri
5		CASE NO. ER-2019-0335
6	Q.	Please state your name and business address.
7	A.	My name is Daniel I. Beck and my business address is Missouri Public Service
8	Commission	, P. O. Box 360, Jefferson City, Missouri 65102.
9	Q.	Who is your employer and what is your present position?
10	A.	I am employed by the Missouri Public Service Commission ("Commission")
11	and my title	is Manager, Engineering Analysis Department of the Industry Analysis Division.
12	A copy of my credentials and case participation is attached as Schedule DIB-ss1.	
13	Q.	What is the purpose of your testimony?
14	A.	I will provide a portion of Staff's response to Commissioner Rupp's Order
15	Regarding Inclining Block Rate Proposals. This Order included a request for information about	
16	advanced me	tering infrastructure ("AMI") which is the topic my testimony addresses.
17	Q.	What is the specific request that you are addressing?
18	А.	The Order stated "Staff shall provide testimony comparing: Ameren
19	Missouri's cu	nrrent roll-out of advanced metering infrastructure (AMI) to Evergy Metro's and
20	Evergy West	e's roll-out of AMI meters in their respective service territories at the time
21	the Commiss	ion approved their current inclining block rate in File ER-2018-0145 and
22	ER-2018-014	6, respectively."
23	Q.	And what is your response?

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A. The Commission approved the current tariffs implementing inclining block rates for residential summer usage in Case Nos. ER-2018-0145 and ER-2018-0146 on December 6, 2018. KCPL had already installed AMI meters for over 90% of its Missouri customers by December 31, 2015 (Customers in the Kansas City metro area). Approximately 15,000 KCPL customers located in Saline, Chariton, Carroll, Lafayette, Howard, and Pettis Counties did not gct AMI meters initially. By September 2016, approximately 180,000 GMO customers, which equates to approximately 56% of GMO's customers, had AMI installed. GMO planned to install approximately 140,000 additional units in its rural service areas by the end of 2019.

In contrast, Ameren Missouri expects to install its first AMI meter in July 2020 (approximately one year after it filed the current case) with deployment of approximately 1.3 million AMI meters taking place over a period of years from 2020 to 2025.⁴ The table below lists end of year targets planned by Ameren Missouri:⁵

13	<u>Year</u>	%
14	2020	10%
15	2021	25%
16	2022	45%
17	2023	60%
18	2024	80%
19	2025	100%

Q. Does this conclude your supplemental surrebuttal testimony?

A. Yes.

¹ Staff's Report Responding to Certain Commission Questions, Case No. ER-2016-0286, December 14, 2016.

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³ Direct Testimony of Darrin Ives, Case No. ER-2018-0146, January 30, 2018, Page 16.

⁴ Direct Testimony of Steven M. Wills, July 3, 2019, Page 12.

⁵ Direct Testimony of Steven M. Wills, July 3, 2019, Table 13.

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 Decrease Its Revenues for Electric Service) Case No. ER-2019-0335)
AFFIDAVIT OF DAM	NIEL I. BECK, PE
STATE OF MISSOURI)	
COUNTY OF COLE) ss.	
COMES NOW DANIEL I. BECK, PE a	and on his oath declares that he is of sound
mind and lawful age; that he contributed to	o the foregoing Supplemental Surrebuttal
Testimony of Daniel I. Beck, PE; and that the sa	ame is true and correct according to his best
knowledge and belief.	

JURAT

DANIEL I. BECK, PE

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 February, 2020.

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

Further the Affiant sayeth not.

Notary Public

Daniel I. Beck, P.E.

Manager of Engineering Analysis Department

Industrial Analysis Division

Missouri Public Service Commission

P.O. Box 360

Jefferson City, MO 65102

I graduated with a Bachelor of Science Degree in Industrial Engineering from the

University of Missouri at Columbia. Upon graduation, I was employed by the Navy Plant

Representative Office in St. Louis, Missouri as an Industrial Engineer. I began my employment

at the Commission in November, 1987, in the Research and Planning Department of the Utility

Division (later renamed the Economic Analysis Department of the Policy and Planning Division)

where my duties consisted of weather normalization, load forecasting, integrated resource

planning, cost-of-service and rate design. In December, 1997, I was transferred to the Tariffs/Rate

Design Section of the Commission's Gas Department where my duties include weather

normalization, annualization, tariff review, cost-of-service and rate design. In June 2001, I was

transferred to the Engineering Analysis Section of the Energy Department, which was created by

combining the Gas and Electric Departments. I became the Supervisor of the Engineering Analysis

Section, Energy Department, Utility Operations Division in November 2005. Since that time my

title has been changed to reflect reorganizations and my current title is Manager of the Engineering

Analysis Department, Industry Analysis Division. My job duties have basically remained the same

since 2005 but in October 2015, I was given added responsibilities in the area of depreciation.

I am a Registered Professional Engineer in the State of Missouri. My registration number

is E-26953.

List of Cases in which prepared testimony was presented by: DANIEL I. BECK, PE

Company Name	Case No.
Union Electric Company	EO-87-175
The Empire District Electric Company	EO-91-74
Missouri Public Service	ER-93-37
St. Joseph Power & Light Company	ER-93-41
The Empire District Electric Company	ER-94-174
Union Electric Company	EM-96-149
Laclede Gas Company	GR-96-193
Missouri Gas Energy	GR-96-285
Kansas City Power & Light Company	ET-97-113
Associated Natural Gas Company	GR-97-272
Union Electric Company	GR-97-393
Missouri Gas Energy	GR-98-140
Missouri Gas Energy	GT-98-237
Ozark Natural Gas Company, Inc.	GA-98-227
Laclede Gas Company	GR-98-374
St. Joseph Power & Light Company	GR-99-246
Laclede Gas Company	GR-99-315
Utilicorp United Inc. & St. Joseph Light & Power Co.	EM-2000-292
Union Electric Company d/b/a AmerenUE	GR-2000-512
Missouri Gas Energy	GR-2001-292
Laclede Gas Company	GR-2001-629
Union Electric Company d/b/a AmerenUE	GT-2002-70
Laclede Gas Company	GR-2001-629
Laclede Gas Company	GR-2002-356
Union Electric Company d/b/a AmerenUE	GR-2003-0517
Missouri Gas Energy	GR-2004-0209
Atmos Energy Corporation	GR-2006-0387
Missouri Gas Energy	GR-2006-0422
Union Electric Company d/b/a AmerenUE	GR-2007-0003
The Empire District Electric Company EO-2007-002	9/EE-2007-0030
Laclede Gas Company	GR-2007-0208
The Empire District Electric Company	EO-2008-0043

cont'd DANIEL I. BECK, PE List of Cases in which prepared testimony was presented

Company Name	Case No.
• .	
Missouri Gas Utility, Inc.	GR-2008-0060
The Empire District Electric Company	ER-2008-0093
Trigen Kansas City Energy Corporation	HR-2008-0300
Union Electric Company d/b/a AmerenUE	ER-2008-0318
Kansas City Power & Light Company	ER-2009-0089
KCP&L Greater Missouri Operations Company	ER-2009-0090
Missouri Gas Energy	GR-2009-0355
The Empire District Gas Company	GR-2009-0434
Union Electric Company d/b/a AmerenUE	ER-2010-0036
Laclede Gas Company	GR-2010-0171
Atmos Energy Corporation	GR-2010-0192
Kansas City Power & Light Company	ER-2010-0355
KCP&L Greater Missouri Operations Company	ER-2010-0356
Union Electric Company d/b/a Ameren Missouri	GR-2010-0363
Kansas City Power & Light Company	ER-2012-0174
KCP&L Greater Missouri Operations Company	ER-2012-0175
Chaney vs. Union Electric Company	EO-2011-0391
Veach vs. The Empire District Electric Company	EC-2012-0406
The Empire District Electric Company	ER-2012-0345
KCP&L Greater Missouri Operations Company	ET-2014-0059
Kansas City Power & Light Company	ET-2014-0071
Union Electric Company d/b/a Ameren Missouri	ET-2014-0085
Missouri Gas Energy	GR-2014-0007
Union Electric Company d/b/a Ameren Missouri	EA-2012-0281
Union Electric Company d/b/a Ameren Missouri	EA-2014-0136
Summit Natural Gas of Missouri, Inc.	GR-2014-0086
Grain Belt Express Clean Line LLC	EA-2014-0207
Union Electric Company d/b/a Ameren Missouri	ER-2014-0258
Kansas City Power & Light Company	ER-2014-0370
Ameren Transmission Company of Illinois	EA-2015-0146
KCP&L Greater Missouri Operations Company	EA-2015-0256

cont'd DANIEL I. BECK, PE List of Cases in which prepared testimony was presented

Case No.
ER-2016-0156
ER-2016-0179
ER-2016-0285
EA-2016-0358
EO-2017-0277
GR-2017-0215
GR-2017-0216
GR-2018-0013
GR-2019-0077