

MISSOURI PUBLIC SERVICE COMMISSION

**STAFF
REBUTTAL REPORT**

APPENDIX 1

Staff Credentials

GRAIN BELT EXPRESS CLEAN LINE, LLC

CASE NO. EA-2016-0358

*Jefferson City, Missouri
January 24, 2017*

APPENDIX 1

STAFF REBUTTAL REPORT

GRAIN BELT EXPRESS CLEAN LINE, LLC

CASE NO. EA-2016-0358

Beck, (PE) Daniel I.1

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Kliethermes, Sarah L.....9

Lange, Shawn E.....14

McNelis, (PE) Kathleen A.17

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Schallenberg, Robert E.....28

Stahlman, Michael L.....41

Daniel I. Beck, P.E.

Manager of Engineering Analysis Unit
Operational Analysis Department
Commission Staff 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 Manager of the Engineering Analysis Unit, Operational Analysis Department, Commission Staff Division and the Engineering Analysis Unit has 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**

<u>Company Name</u>	<u>Case No.</u>
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-2007-0029/EE-2007-0030
Laclede Gas Company	GR-2007-0208
The Empire District Electric Company	EO-2008-0043
Missouri Gas Utility, Inc.	GR-2008-0060
The Empire District Electric Company	ER-2008-0093
Trigen Kansas City Energy Corporation	HR-2008-0300

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

<u>Company Name</u>	<u>Case No.</u>
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
KCP&L Greater Missouri Operations Company	ER-2016-0156
Union Electric Company d/b/a Ameren Missouri	ER-2016-0179
Kansas City Power & Light Company	ER-2016-0285

Education and Work Experience for
Natelle Dietrich

Director
Tariff, Safety, Economic and Engineering Analysis Department
Regulatory Review Division

I received a Bachelor's of Arts Degree in English from the University of Missouri, St. Louis and a Master's of Business Administration from William Woods University. During my tenure with the Commission, I have worked in many areas of telecommunications regulation. In October, 2007, I became the Director of Utility Operations. The division was renamed the Tariff, Safety, Economic and Engineering Analysis Department in August 2011. In October 2015, I assumed my current position as Commission Staff Director. In this position, I oversee all aspects of the Commission Staff.

My responsibilities include involvement in several activities related to implementing sound energy policy in Missouri. I was the lead director for the Commission's rulemakings on such things as the Chapter 22 rewrite, the implementation of the Missouri Energy Efficiency Investment Act and the Commission's renewable energy standard regulations. Relevant activities relate to Section 111(d) of the Clean Air Act, energy efficiency, demand side management, demand response and smart grid. I was a member of the Missouri Delegation to the Missouri/Moldova Partnership through NARUC and the US Agency for International Development.

I am a member of the National Association of Regulatory Utility Commissioners' Subcommittee on Rate Design and the Staff Subcommittee on Telecommunications. I serve on the Staff of the Federal/State Joint Board on Universal Service, serve as lead Staff for the Missouri Universal Service Board, and was a member of the Governor's MoBroadbandNow taskforce.

Natelle Dietrich
Case Summary

Presented testimony or analysis through affidavits on the following cases and proceedings:

- Case No. TA-99-405, an analysis of the appropriateness of a “payday loan” company providing prepaid telecommunications service.
- Case No. TX-2001-73, In the Matter of Proposed New Rules on Prepaid Calling Cards.
- Case No. TO-2001-455, the AT&T/Southwestern Bell Telephone Company arbitration, which included issues associated with unbundled network elements.
- Case No. TX-2001-512, In the Matter of Proposed Amendments to Commission Rule 4 CSR 240-33.010, 33.020, 33.030, 33.040, 33.060, 33.070, 33.080, 33.110, and 33.150 (telecommunications billing practices).
- Case No. TO-2002-222, the MCI/SWBT arbitration.
- Case No. TR-2002-251, In the Matter of the Tariffs Filed by Sprint Missouri, Inc. d/b/a Sprint to Reduce the Basic Rates by the Change in the CPI-TS as Required by 392.245(4), Updating its Maximum Allowable Prices for Non-Basic Services and Adjusting Certain Rates as Allowed by 392.245(11) and Reducing Certain Switched Access Rates and Rebalancing to Local Rates as Allowed by 392.245(9).
- Case No. TX-2002-1026, In the Matter of a Proposed Rulemaking to Implement the Missouri Universal Service Fund End-User Surcharge.
- Case No. TX-2003-0379, In the Matter of Proposed Amendments to Commission Rule 4 CSR 240-3.545, formerly 4 CSR 240-30.010 (tariff filing requirements).
- Case No. TX-2003-0380, In the Matter of Proposed Amendments to Commission Rules 4 CSR 240-2.060, 4 CSR 240-3.020, 4 CSR 240-3.510, 4 CSR 240-3.520, and 4 CSR 240-3.525 (competitive local exchange carrier filing requirements and merger-type transactions).
- Case No. TX-2003-0389, In the Matter of Proposed Amendment to Commission Rules 4 CSR 240-3.530 and 4 CSR 240-3.535, and New Rules 4 CSR 240-3.560 and 4 CSR 240-3.565 (telecommunications bankruptcies and cessation of operation).
- Case No. TX-2003-0445, In the Matter of a Proposed New Rule 4 CSR 240-33.160 Regarding Customer Proprietary Network Information.
- Case No. TX-2003-0487, In the Matter of Proposed Commission Rules 4 CSR 240-36.010, 36.020, 36.030, 36.040, 36.050, 36.060, 36.070, and 36.080 (arbitration and mediation rules).
- Case No. TX-2003-0565, In the Matter of a Proposed Rulemaking to Codify Procedures for Telecommunications Carriers to Seek Approval, Amendment and Adoption of Interconnection and Resale Agreements.
- Case Nos. TX-2004-0153 and 0154, in the Matter of Proposed Rule for 211 Service (emergency and permanent rules).

- Case Nos. TO-2004-0370, IO-2004-0467, TO-2004-0505 et al, In the Matter of the Petition of various small LECs for Suspension of the Federal Communications Commission Requirement to Implement Number Portability.
- Case No. TX-2005-0258, In the Matter of a New Proposed Rule 4 CSR 240-33.045 (placement and identification of charges on customer bills).
- Case No. TX-2005-0460, In the Matter of the Proposed Amendments to the Missouri Universal Service Fund Rules.
- Case No. TO-2006-0093, In the Matter of the Request of Southwestern Bell Telephone, L.P. d/b/a SBC Missouri, for Competitive Classification Pursuant to Section 392.245.6, RSMo (2205) – 30-day Petition.
- Case Nos. TC-2005-0357, IR-2006-0374, TM-2006-0306, the complaint case, earnings investigation and transfer of assets case to resolve issues related to Cass County Telephone Company, LP, LEC Long Distance, FairPoint Communications, Inc., FairPoint Communications Missouri Inc. d/b/a FairPoint Communications and ST Long Distance Inc. db/a FairPoint Communications Long Distance.
- Case No. TC-2006-0068, FullTel, Inc., v. CenturyTel of Missouri, LLC.
- Case No. TX-2006-0169, In the Matter of Proposed New Rule 4 CSR 240-3.570 Regarding Eligible Telecommunications Carrier Designations for Receipt of Federal Universal Service Fund Support.
- Case No. TX-2006-0429, In the Matter of a Proposed Amendment to 4 CSR 240-3.545 (one day tariff filings).
- Case No. TX-2007-0086, In the Matter of a Proposed Rulemaking to Create Chapter 37 – Number Pooling and Number Conservation Efforts
- Case No. TA-2009-0327, In the Matter of the Petition of TracFone Wireless, Inc. for Designation as an Eligible Telecommunications Carrier in the State of Missouri for the Limited Purpose of Offering Lifeline and Link Up Service to Qualified Households.
- Case No. RA-2009-0375, In the Matter of the application of Nexus Communications, Inc. dba TSI for Designation as an Eligible Telecommunications Carrier in the State of Missouri for the Limited Purpose of Offering Wireless Lifeline and Link Up Service to Qualifying Households.
- Case No. AX-2010-0061, Office of Public Counsel’s Petition for Promulgation of Rules Relating to Billing and Payment Standards for Residential Customers.
- Case No. GT-2009-0056, In the Matter of Laclede Gas Company’s Tariff Revision Designed to Clarify its Liability for Damages Occurring on Customer Piping and Equipment Beyond the Company’s Meter.
- Case No. ER-2012-0166, In the Matter of Union Electric Company d/b/a Ameren Missouri’s Tariffs to Increase Its Revenues for Electric Service. Energy Independence and Security Act of 2007 (EISA).
- Case No. ER-2012-0174, In the Matter of Kansas City Power & Light Company’s Request for Authority to Implement A General Rate Increase for Electric Service. Energy Independence and Security Act of 2007 (EISA).

- Case No. ER-2012-0175, In the Matter of KCP&L Greater Missouri Operations Company's Request for Authority to Implement A General Rate Increase for Electric Service. Energy Independence and Security Act of 2007 (EISA).
- Case No. ER-2012-0345, In the Matter of Empire District Electric Company of Joplin, Missouri Tariff's Increasing Rates for Electric Service Provided to Customers in the Missouri Service Area of the Company. Energy Independence and Security Act of 2007 (EISA).
- File Nos. EO-2013-0396 and EO-2013-0431, In the Matter of the Joint Application of Entergy Arkansas, Inc., Mid South TransCo, LLC, Transmission Company Arkansas, LLC and ITC Midsouth LLC for Approval of Transfer of Assets and Certificate of Convenience and Necessity, and Merger and, in connection therewith, Certain Other Related Transactions; and In the Matter of Entergy Arkansas, Inc.'s Notification of Intent to Change Functional Control of Its Missouri Electric Transmission Facilities to the Midwest Independent Transmission System Operator Inc. Regional Transmission System Organization or Alternative Request to Change Functional Control and Motions for Waiver and Expedited Treatment, respectively.
- Case No. MX-2013-0432, In the Matter of a Proposed Rulemaking to Revise Manufactured Housing Rules Regarding Installation and Monthly Reporting Requirements.
- Case No. TX-2013-0324, In the Matter of a Proposed Rulemaking to the Missouri Universal Service Fund.
- Case No. EO-2014-0095, In the Matter of Kansas City Power & Light Company's Filing for Approval of Demand-Side Programs and for Authority to Establish Demand-Side Programs Investment Mechanism.
- Case No. EA-2014-0207, In the Matter of the Application of Grain Belt Express Clean Line LLC for a Certificate of Convenience and Necessity Authorizing It to Construct, Own, Operate, Control, Manage, and Maintain a High Voltage, Direct Current Transmission Line and an Associated Converter Station Providing an Interconnection on the Maywood - Montgomery 345 kV Transmission Line.
- Case No. ER-2014-0370, In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service.
- Case No. WR-2015-0301, In the Matter of Missouri-American Water Company's Request for Authority to Implement a General Rate Increase for Water and Sewer Service Provided in Missouri Service Areas.
- Case No. ER-2016-0156, In the Matter of KCP&L Greater Missouri Operations Company's Request for Authority to Implement a General Rate Increase for Electric Service.
- Case No. ET-2016-0246, In the Matter of the Application of Union Electric Company d/b/a Ameren Missouri for Approval of a Tariff Setting a Rate for Electric Vehicle Charging Stations.
- Case No. ER-2016-0285, In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service.
- Case No. ER-2016-0179, In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Increase its Revenues for Electric Service.

- Case No. EE-2017-0113, In the Matter of the Joint Application of Great Plains Energy Incorporated, Kansas City Power & Light Company and KCP&L Greater Missouri Operations Company for a Variance from the Commission's Affiliate Transactions Rule, 4 CSR 240-20.015
- Actively participated in or prepared comments on numerous issues on behalf of the Commission to be filed at the Federal Communications Commission.
- Prepared congressional testimony on behalf of the Commission on number conservation efforts in Missouri.
- A principal author on Missouri Public Service Commission Comments on the Reduction of Carbon Emissions in Missouri under Section 111(d) of the Clean Air Act.
- A principal author on Missouri Public Service Commission Comments on the Environmental Protection Agency's "Emission Guidelines for Existing Stationary Sources: Electric Generating Unity".

Commission Arbitration Advisory Lead Staff for the following cases:

- Case No. TO-2005-0336, Southwestern Bell Telephone, L.P., d/b/a SBC Missouri's Petition for Compulsory Arbitration of Unresolved Issues For a Successor Interconnection Agreement to the Missouri 271 Agreement ("M2A").
- Case No. IO-2005-0468, In the Matter of the Petition of Alma Telephone Company for Arbitration of Unresolved Issues Pertaining to a Section 251(b)(5) Agreement with T-Mobile USA, Inc.
- Case No. TO-2006-0147 et al, In the Matter of the Petition for Arbitration of Unresolved Issues in a Section 251(b)(5) Agreement with T-Mobile USA, Inc and Cingular Wireless.
- Case No. TO-2006-0299, Petition of Socket Telecom, LLC for Compulsory Arbitration of Interconnection Agreements with CenturyTel of Missouri, LLC and Spectra Communications, LLC, pursuant to Section 251(b)(1) of the Telecommunications Act of 1996.
- Case No. TO-2006-0463, In the Matter of the Petition for Arbitration of Unresolved Issues in a Section 251(b)(5) Agreement with ALLTEL Wireless and Western Wireless.
- Case No. TO-2009-0037, In the Matter of the Petition of Charter Fiberlink-Missouri, LLC for Arbitration of an Interconnection Agreement Between CenturyTel of Missouri, LLC and Charter Fiberlink-Missouri, LLC.

Sarah L. Kliethermes

MOPSC EMPLOYMENT EXPERIENCE

Regulatory Economist III (July 2013 – Present)

Tariff and Rate Design Unit, Operational Analysis Department, Commission Staff Division, of the Missouri Public Service Commission. In this position my duties include providing analysis and recommendations in the areas of RTO and ISO transmission, rate design, class cost of service, tariff compliance and design, and energy efficiency mechanism and tariff design. I also continue to provide legal advice and assistance regarding generating station and environmental control construction audits and electric utility regulatory depreciation.

My prior positions in the Commission's General Counsel's Office, which was reorganized as the Staff Counsel's Office, consisted of leading major rate case litigation and settlement and presenting Staff's position to the Commission, and providing legal advice and assistance primarily in the areas of depreciation, cost of service, class cost of service, rate design, tariff issues, resource planning, accounting authority orders, construction audits, rulemakings and workshops, fuel adjustment clauses, document management and retention, and customer complaints. Those positions were:

Senior Counsel (September 2011 – July 2013)

Associate Counsel (September 2009 – September 2011)

Legal Counsel (September 2007 – September 2009)

Legal Intern (May 2006 – September 2007)

TESTIMONY

KCP&L Great Missouri Operations Company ET-2017-0097
In the Matter of KCP&L Greater Missouri Operations Company's Annual RESRAM Tariff Filing

Kansas City Power & Light Company ER-2016-0325
In the Matter of Kansas City Power & Light Company's Demand Side Investment Rider Rate Adjustment And True-Up Required by 4 CSR 240-3.163(8)

Kansas City Power & Light Company ER-2016-0285
In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service

Union Electric Company d/b/a Ameren Missouri ER-2016-0179
In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff to Increase Its Revenues for Electric Service

cont'd Sarah L. Kliethermes

KCP&L Great Missouri Operations Company ER-2016-0156
In the Matter of KCP&L Greater Missouri Operations Company's Request for Authority to Implement a General Rate Increase for Electric Service

Empire District Electric Company ER-2016-0023
In the Matter of The Empire District Electric Company's Request for Authority to Implement a General Rate Increase for Electric Service

Ameren Transmission Company of Illinois EA-2015-0146
In the Matter of the Application of Ameren Transmission Company of Illinois for Other Relief or, in the Alternative, a Certificate of Public Convenience and Necessity Authorizing it to Construct, Install, Own, Operate, Maintain and Otherwise Control and Manage a 345,000-volt Electric Transmission Line from Palmyra, Missouri to the Iowa Border and an Associated Substation Near Kirksville, Missouri

Ameren Transmission Company of Illinois EA-2015-0145
In the Matter of the Application of Ameren Transmission Company of Illinois for Other Relief or, in the Alternative, a Certificate of Public Convenience and Necessity Authorizing it to Construct, Install, Own, Operate, Maintain and Otherwise Control and Manage a 345,000-volt Electric Transmission Line in Marion County, Missouri and an Associated Switching Station Near Palmyra, Missouri

Union Electric Company d/b/a Ameren Missouri EO-2015-0055
In the Matter of Union Electric Company d/b/a Ameren Missouri's 2nd Filing to Implement Regulatory Changes in Furtherance of Energy Efficiency as Allowed by MEEIA

Empire District Electric Company ER-2014-0351
In the Matter of The Empire District Electric Company for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area

Kansas City Power & Light Company ER-2014-0370
In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service

Union Electric Company d/b/a Ameren Missouri EC-2014-0316
City of O'Fallon, Missouri, and City of Ballwin, Missouri, Complainants v. Union Electric Company d/b/a Ameren Missouri, Respondent

cont'd Sarah L. Kliethermes

Union Electric Company d/b/a Ameren Missouri ER-2014-0258
In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff to Increase Its Revenues for Electric Service

Union Electric Company d/b/a Ameren Missouri EC-2014-0224
Noranda Aluminum, Inc., et al., Complainants, v. Union Electric Company d/b/a Ameren Missouri, Respondent

Grain Belt Express Clean Line, LLC EA-2014-0207
In the Matter of the Application of Grain Belt Express Clean Line LLC for a Certificate of Convenience and Necessity Authorizing It to Construct, Own, Operate, Control, Manage, and Maintain a High Voltage, Direct Current Transmission Line and an Associated Converter Station Providing an Interconnection on the Maywood - Montgomery 345 kV Transmission Line

KCP&L Great Missouri Operations Company EO-2014-0151
In the Matter of KCP&L Greater Missouri Operations Company's Application for Authority to Establish a Renewable Energy Standard Rate Adjustment Mechanism

Kansas City Power & Light Company EO-2014-0095
In the Matter of Kansas City Power & Light Company's Filing for Approval of Demand-Side Programs and for Authority to Establish A Demand-Side Programs Investment Mechanism

Veolia Energy Kansas City, Inc HR-2014-0066
In the Matter of Veolia Energy Kansas City, Inc for Authority to File Tariffs to Increase Rates

cont'd Sarah L. Kliethermes

RELATED TRAINING AND EXPERIENCE

2015, participant in Missouri's Comprehensive Statewide Energy Plan working group on Energy Pricing and Rate Setting Processes.

Presented:

Support for Low Income and Income Eligible Customers, Cost-Reflective Tariff Training, in cooperation with U.S.A.I.D. and NARUC, Addis Ababa, Ethiopia (February 23 - 26, 2016)

Fundamentals of Ratemaking at the MoPSC (October 8, 2014)

Ratemaking Basics (Sept. 14, 2012)

Attended:

Using Deemed Savings and Technical Reference Manuals for Efficiency Programs and Projects Evaluation, Measurement and Verification for Energy Efficiency (June 27, 2016)

Demand Charges: Pathway or Detour? (December 10, 2015)

Net Metering presented by Ralph Zarumba (December 9, 2014)

Fourth Annual Public Utility Law Symposium (October 17, 2014)

Electricity Energy Storage Sources (August 29, 2014)

Combined Heat & Power: Planning, Design and Operation (August 11, 2014)

Today's U.S. Electric Power Industry, the Smart Grid, ISO Markets & Wholesale Power Transactions (July 29-30, 2014)

MISO Markets & Settlements Training for OMS and ERSC Commissioners & Staff (Jan. 27 – 28, 2014)

Validating Settlement Charges in New SPP Integrated Marketplace (July 22, 2013)

PSC Transmission Training (May 14 – 16, 2013)

Grid School (March 4 – 7, 2013)

Specialized Technical Training - Electric Transmission (April 18 – 19, 2012)

Legal Practice Before the Missouri Public Service Commission (Sept. 1, 2011)

Renewable Energy Finance Forum (Sept. 29 – Oct 3, 2010)

The New Energy Markets: Technologies, Differentials and Dependencies (June 16, 2011)

Mid-American Regulatory Conference Annual Meeting (June 5 – 8, 2011)

Utility Basics (Oct. 14 – 19, 2007)

EDUCATION

Studied Energy Transmission at Bismarck State College, online (2014 – 2015).

Licensed to Practice Law in Missouri, MoBar # 60024 (Summer 2007).

Juris Doctorate, University of Missouri, Columbia, Missouri (2004 – 2007).

Bachelor of Science in Historic Preservation, Cum Laude, minor in Architectural Design, Southeast Missouri State University, Cape Girardeau, Missouri (2002 – 2004).

2000 – 2002: Studied Architecture and English Literature at Drury University, Springfield, Missouri.

2013 Economics courses at Columbia College, Jefferson City campus.

OTHER EMPLOYMENT EXPERIENCE

Law Clerk, Contracting and Organization Research Institute. Performed legal research; analyzed, described, and categorized contracts.

Paid Intern, Southeast Missouri State University. Accessioned and organized artifact collections for the Missouri Department of Natural Resources, Division of State Parks and Historic Sites.

Intermediate Clerk, Missouri Department of Elementary and Secondary Education. Responsibilities included organizing and managing various forms of data.

SHAWN E. LANGE

PRESENT POSITION:

I am a Utility Engineering Specialist III in the Engineering Analysis Section, Operational Analysis Department, Commission Staff Division, of the Missouri Public Service Commission.

EDUCATIONAL BACKGROUND AND WORK EXPERIENCE:

In December 2002, I received a Bachelor of Science Degree in Mechanical Engineering from the University of Missouri, at Rolla now known as the Missouri University of Science and Technology. I joined the Commission Staff in January 2005. I am a registered Engineer-in-Training in the State of Missouri. I have spoke at NCDC’s workshop on alternative climate normals.

TESTIMONY FILED:

Case Number	Utility	Testimony	Issue
ER-2005-0436	Aquila Inc.	Direct	Weather Normalization
		Rebuttal	Weather Normalization
		Surrebuttal	Weather Normalization
ER-2006-0314	Kansas City Power & Light Company	Direct	Weather Normalization
		Rebuttal	Weather Normalization
ER-2006-0315	Empire District Electric Company	Direct	Weather Normalization
		Surrebuttal	Weather Normalization
ER-2007-0002	Union Electric Company d/b/a AmerenUE	Direct	Weather Normalization
ER-2007-0004	Aquila Inc.	Direct	Weather Normalization
ER-2007-0291	Kansas City Power & Light Company	Staff Report	Weather Normalization
		Rebuttal	Weather Normalization
ER-2008-0093	Empire District Electric Company	Staff Report	Weather Normalization
ER-2008-0318	Union Electric Company d/b/a AmerenUE	Staff Report	Weather Normalization
ER-2009-0089	Kansas City Power & Light Company	Staff Report	Net System Input

Case Number	Utility	Testimony	Issue
ER-2009-0090	KCP&L Greater Missouri Operations Company	Staff Report	Net System Input
ER-2010-0036	Union Electric Company d/b/a AmerenUE	Staff Report	Net System Input
ER-2010-0130	Empire District Electric Company	Staff Report	Variable Fuel Costs
		Surrebuttal	Variable Fuel Costs
ER-2010-0355	Kansas City Power & Light Company	Staff Report	Variable Fuel Costs
ER-2010-0356	KCP&L Greater Missouri Operations Company	Staff Report	Engineering Review-Sibley 3 SCR
ER-2011-0004	Empire District Electric Company	Staff Report	Variable Fuel Costs
ER-2011-0028	Union Electric Company d/b/a Ameren Missouri	Staff Report	Net System Input
ER-2012-0166	Union Electric Company d/b/a Ameren Missouri	Staff Report	Weather Normalization
		Surrebuttal	Weather Normalization Maryland Heights In-Service
ER-2012-0174	Kansas City Power & Light Company	Staff Report	Weather Normalization Net System Input Variable Fuel Costs
		Surrebuttal	Weather Normalization
ER-2012-0175	KCP&L Greater Missouri Operations Company	Staff Report	Weather Normalization Net System Input
		Surrebuttal	Weather Normalization
ER-2012-0345	Empire District Electric Company	Rebuttal	Interim Rates
		Staff Report	Weather Normalization
EA-2014-0223	Complaint of Noranda Aluminum	Rebuttal	Weather Normalization
EA-2014-0207	Grain Belt Express CCN	Rebuttal	Safety Interconnection Studies
		Surrebuttal	Environmental Impacts

Case Number	Utility	Testimony	Issue
ER-2014-0258	Union Electric Company d/b/a Ameren Missouri	Staff Report	Variable Fuel Costs Net System Input
ER-2014-0351	Empire District Electric Company	Staff Report	Variable Fuel Costs Net System Input
ER-2014-0370	Kansas City Power & Light Company	Staff Report	Net System Input Variable Fuel Costs
		True-up Direct	Variable Fuel Costs La Cygne In-service
EA-2015-0146	ATXI CCN	Rebuttal	Certificates of Convenience/Feasibility Analysis
		Surrebuttal	
ER-2016-0023	Empire District Electric Company	Staff Report	Net System Input Variable Fuel Costs
		Surrebuttal	Variable Fuel Costs
ER-2016-0179	Union Electric Company d/b/a Ameren Missouri	Staff Report	Variable Fuel Costs
		Rebuttal	Variable Fuel Costs

Kathleen A. McNelis, P.E.

Current Position: Utility Regulatory Engineering Manager, Safety Engineering Unit

Educational Background & Certifications

- Bachelors of Chemical Engineering, Georgia Institute of Technology.
- Masters of Science, Metallurgical Engineering, University of Missouri, Rolla (now Missouri University of Science and Technology).
- Professional Engineer in Missouri, South Carolina, Ohio.
- National Association of Corrosion Engineers (NACE) CP-2 (Cathodic Protection Technician).
- U.S. Department of Transportation (DOT), Pipeline and Hazardous Materials Safety Administration (PHMSA) – Inspector Training and Qualifications (TQ) division:
 - 7 core classes required to perform natural gas pipeline safety inspections;
 - 7 additional classes required to perform pipeline integrity management inspections of natural gas transmission and distribution systems; and
 - Additional training in Root Cause/Incident Investigations.

Work Experience at Missouri Public Service Commission

2016 – Present, Missouri Public Service Commission, Pipeline Safety Program Manager

My duties include review and approval of inspector gas safety compliance inspections, incident reports and status reports. Additionally, I perform pipeline safety inspections and participate in incident investigations, especially related to integrity management issues and supervise Staff performing pipeline safety inspections and incident investigations.

2014 – 2015, Missouri Public Service Commission, Procurement Analysis

My duties included the investigation and review of Missouri natural gas local distribution companies in the annual actual cost adjustment (ACA) reviews. These reviews included natural gas reliability/peak day plans, peak day reserve margin and its rationale, gas supply plans for various weather conditions, and gas purchasing practices.

2008 – 2013, Missouri Public Service Commission, Pipeline Safety Inspector

My duties included gas safety compliance inspections of investor owned local distribution companies (LDCs) and municipal gas systems in Missouri. I performed on-site record inspections and field audits for compliance with federal and Missouri safety, distribution and transmission integrity management regulations. I investigated natural gas reportable incidents, reported findings and recommendations.

Prior Work Experience:

Federal Government: United States Patent and Trademark Office (Virginia)

I examined metallurgical patent applications, comparing pending patent applications to prior published technologies and recommended approval or rejection of applications.

Private Sector: Engineering Design, Procurement, Construction Firms (Georgia, South Carolina)

I held positions as process, project and lead engineer as well as project manager on various design and design-build projects – prepared design drawings, specifications, manuals and procedures and provided support for procurement and construction as requested for design build projects.

Summary of Work Filed In EFIS

Company Name	Case Number	Description
GAS SAFETY RELATED CASES		
Laclede Gas Company	GS-2016-0160	Gas Incident Report and Recommendations
Laclede Gas Company	GW-2016-0013	Staff Report and Recommendations
City Utilities of Springfield	GS-2004-0257	Status Report
Roeslein Alternative Energy Services, LLC- Investor(Gas)	GA-2016-0271	Staff Report and Recommendations
Missouri Gas Energy	GS-2011-0248	Gas Incident Report and Recommendations
Laclede Gas Company	GS-2009-0270	Gas Incident Report and Recommendations
PROCUREMENT ANALYSIS/RELIABILTY RELATED CASES		
Ameren Missouri	GR-2014-0061	ACA Review – Staff Recommendations
Summit Natural Gas of Missouri	GR-2014-0096	ACA Review – Staff Recommendations
Laclede Gas Company	GR-2014-0121	ACA Review – Staff Recommendations
Empire District Gas	GR-2014-0108	ACA Review – Staff Recommendations
Summit Natural Gas of Missouri	GR-2014-0097	ACA Review – Staff Recommendations
Ameren Missouri	GR-2014-0238	ACA Review – Staff Recommendations
Summit Natural Gas	GR-2015-0101	ACA Review – Staff Recommendations
Empire District Gas	GR-2015-0109	ACA Review – Staff Recommendations
Laclede Gas Company	GR-2014-0231	ACA Review – Staff Recommendations

DAVID MURRAY

Educational and Employment Background and Credentials

I am currently the Utility Regulatory Manager of the Financial Analysis Unit for the Missouri Public Service Commission (Commission). I accepted the position of a Public Utility Financial Analyst in June 2000 and my position was reclassified in August 2003 to an Auditor III. I was promoted to the position of Auditor IV, effective July 1, 2006. I was employed by the Missouri Department of Insurance in a regulatory position before I began my employment at the Missouri Public Service Commission.

I was authorized in October 2010 to use the Chartered Financial Analyst (CFA) designation. The use of the CFA designation requires the passage of three rigorous examinations addressing many investment related areas such as valuation analysis, portfolio management, statistical analysis, economic analysis, financial statement analysis and ethical standards. In addition to the passage of the examinations a CFA charterholder must have four years of relevant professional work experience.

In May 1995, I earned a Bachelor of Science degree in Business Administration with an emphasis in Finance and Banking, and Real Estate from the University of Missouri-Columbia. I earned a Masters in Business Administration from Lincoln University in December 2003.

I have been awarded the professional designation Certified Rate of Return Analyst (CRRA) by the Society of Utility and Regulatory Financial Analysts (SURFA). This designation is awarded based upon experience and successful completion of a written examination, which I completed during my attendance at a SURFA conference in April 2007. I served as a board member on the SURFA Board of Directors from 2008 through 2016.

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
1/20/2017	ER-2016-0179	Union Electric Company d/b/a Ameren Missouri	Rebuttal	Capital Structure
12/30/2016	ER-2016-0285	Kansas City Power & Light Company	Rebuttal	Capital Structure/Cost of Debt
12/09/2016	ER-2016-0179	Union Electric Company d/b/a Ameren Missouri	Cost of Service Report	Capital Structure
3/04/2016	WR-2015-0301	Missouri-American Water Company	Surrebuttal	Rate of Return Capital Structure
2/11/2016	WR-2015-0301	Missouri-American Water Company	Rebuttal	Rate of Return Capital Structure
12/23/2015	WR-2015-0301	Missouri-American Water Company	Cost of Service Report	Rate of Return Capital Structure
10/21/2015	EA-2015-0146	Ameren Transmission Company of Illinois	Rebuttal	Financial Ability
8/24/2015	GF-2015-0181	Laclede Gas Company	Rebuttal	Financing
3/20/15	EO-2015-0055	Union Electric Company d/b/a Ameren Missouri	Rebuttal	Demand-Side Programs
2/6/2015	ER-2014-0258	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Rate of Return Capital Structure
1/16/2015	ER-2014-0258	Union Electric Company d/b/a Ameren Missouri	Rebuttal	Rate of Return Capital Structure
12/5/2014	ER-2014-0258	Union Electric Company d/b/a Ameren Missouri	Cost of Service Report	Rate of Return Capital Structure
9/15/2014	EA-2014-0207	Grain Belt Express Clean Line, LLC	Rebuttal	Financing
8/8/2014	GR-2014-0086	Summit Natural Gas of Missouri	Surrebuttal	Rate of Return Capital Structure
7/11/2014	GR-2014-0086	Summit Natural Gas of Missouri	Rebuttal	Rate of Return Capital Structure
5/30/2014	GR-2014-0086	Summit Natural Gas of Missouri	Cost of Service Report	Rate of Return Capital Structure
4/29/2013	SR-2013-0016	Emerald Pointe Utility Company	Surrebuttal	Rate of Return

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
1/30/2013	EA-2013-0098	KCP&L; KCP&L Greater Missouri Operations; Transource Missouri, LLC	Rebuttal	Financing
11/13/2012	ER-2012-0175	KCP&L Greater Missouri Operations Company	True-up Rebuttal	Rate of Return Capital Structure
11/13/2012	ER-2012-0174	Kansas City Power & Light Company	True-up Rebuttal	Rate of Return Capital Structure
10/10/2012	ER-2012-0175	KCP&L Greater Missouri Operations Company	Surrebuttal	Rate of Return Capital Structure
10/8/2012	ER-2012-0174	Kansas City Power & Light Company	Surrebuttal	Rate of Return Capital Structure
9/12/2012	ER-2012-0175	KCP&L Greater Missouri Operations Company	Rebuttal	Rate of Return Capital Structure
9/7/2012	ER-2012-0166	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Rate of Return Capital Structure
9/5/2012	ER-2012-0174	Kansas City Power & Light Company	Rebuttal	Rate of Return Capital Structure
8/14/2012	ER-2012-0166	Union Electric Company d/b/a Ameren Missouri	Rebuttal	Rate of Return Capital Structure
8/9/2012	ER-2012-0175	KCP&L Greater Missouri Operations Company	Cost of Service Report	Rate of Return Capital Structure
8/2/2012	ER-2012-0174	Kansas City Power & Light Company	Cost of Service Report	Rate of Return Capital Structure
7/6/2012	ER-2012-0166	Union Electric Company d/b/a Ameren Missouri	Cost of Service Report	Rate of Return Capital Structure
04/15/2011	ER-2011-0028	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Rate of Return Capital Structure
03/25/2011	ER-2011-0028	Union Electric Company d/b/a Ameren Missouri	Rebuttal	Rate of Return Capital Structure
02/28/2011	ER-2010-0356	KCP&L Greater Missouri Operations Company	True-up Rebuttal	Rate of Return Capital Structure
02/28/2011	ER-2010-0355	Kansas City Power & Light Company	True-up Rebuttal	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
02/22/2011	ER-2010-0356	KCP&L Greater Missouri Operations Company	True-up Direct	Rate of Return Capital Structure
02/22/2011	ER-2010-0355	Kansas City Power & Light Company	True-up Direct	Rate of Return Capital Structure
02/08/2011	ER-2011-0028	Union Electric Company d/b/a Ameren Missouri	Cost of Service Report	Rate of Return Capital Structure
1/12/2011	ER-2010-0356	KCP&L Greater Missouri Operations Company	Surrebuttal	Rate of Return Capital Structure
1/05/2011	ER-2010-0355	Kansas City Power & Light Company	Surrebuttal	Rate of Return Capital Structure
12/15/2010	ER-2010-0356	KCP&L Greater Missouri Operations Company	Rebuttal	Rate of Return Capital Structure
12/08/2010	ER-2010-0355	Kansas City Power & Light Company	Rebuttal	Rate of Return Capital Structure
11/17/2010	ER-2010-0356	KCP&L Greater Missouri Operations Company	Cost of Service Report	Rate of Return Capital Structure
11/10/2010	ER-2010-0355	Kansas City Power & Light Company	Cost of Service Report	Rate of Return Capital Structure
05/06/2010	WR-2010-0131	Missouri-American Water Company	Surrebuttal	Rate of Return Capital Structure
04/15/2010	WR-2010-0131	Missouri-American Water Company	Rebuttal	Rate of Return Capital Structure
03/09/2010	WR-2010-0131	Missouri-American Water Company	Cost of Service Report	Rate of Return Capital Structure
03/05/2010	ER-2010-0036	Union Electric Company d/b/a AmerenUE	Surrebuttal	Rate of Return Capital Structure
02/11/2010	ER-2010-0036	Union Electric Company d/b/a AmerenUE	Rebuttal	Rate of Return Capital Structure
12/18/2009	ER-2010-0036	Union Electric Company d/b/a AmerenUE	Cost of Service Report	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
10/14/2009	GR-2009-0355	Missouri Gas Energy	Surrebuttal	Rate of Return Capital Structure
09/28/2009	GR-2009-0355	Missouri Gas Energy	Rebuttal	Rate of Return Capital Structure
08/21/2009	GR-2009-0355	Missouri Gas Energy	Cost of Service Report	Rate of Return Capital Structure
04/09/2009	HR-2009-0092	KCP&L Greater Missouri Operations Company	Surrebuttal	Rate of Return Capital Structure
04/09/2009	ER-2009-0090	KCP&L Greater Missouri Operations Company	Surrebuttal	Rate of Return Capital Structure
04/07/2009	ER-2009-0089	Kansas City Power & Light Company	Surrebuttal	Rate of Return Capital Structure
03/13/2009	HR-2009-0092	KCP&L Greater Missouri Operations Company	Rebuttal	Rate of Return Capital Structure
03/13/2009	ER-2009-0090	KCP&L Greater Missouri Operations Company	Rebuttal	Rate of Return Capital Structure
03/11/2009	ER-2009-0089	Kansas City Power & Light Company	Rebuttal	Rate of Return Capital Structure
02/13/2009	HR-2009-0092	KCP&L Greater Missouri Operations Company	Cost of Service Report	Rate of Return Capital Structure
02/13/2009	ER-2009-0090	KCP&L Greater Missouri Operations Company	Cost of Service Report	Rate of Return Capital Structure
02/11/2009	ER-2009-0089	Kansas City Power & Light Company	Cost of Service Report	Rate of Return Capital Structure
08/01/2008	HR-2008-0300	Trigen-Kansas City Energy Corporation	Cost of Service Report	Rate of Return Capital Structure
01/18/2008	GR-2008-0060	Missouri Gas Utility, Inc.	Cost of Service Report	Rate of Return Capital Structure
07/31/2007	WR-2007-0216	Missouri-American Water Company	Surrebuttal	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
07/13/2007	WR-2007-0216	Missouri-American Water Company	Rebuttal	Rate of Return Capital Structure
06/05/2007	WR-2007-0216	Missouri-American Water Company	Direct	Rate of Return Capital Structure
12/27/2006	GR-2006-0422	Missouri Gas Energy	True-up Direct	Rate of Return Capital Structure
12/11/2006	GR-2006-0422	Missouri Gas Energy	Surrebuttal	Rate of Return Capital Structure
11/21/2006	GR-2006-0422	Missouri Gas Energy	Rebuttal	Rate of Return Capital Structure
10/13/2006	GR-2006-0422	Missouri Gas Energy	Direct	Rate of Return Capital Structure
08/18/2006	ER-2006-0315	Empire District Electric Co.	Surrebuttal	Rate of Return Capital Structure
07/28/2006	ER-2006-0315	Empire District Electric Co.	Rebuttal	Rate of Return Capital Structure
06/23/2006	ER-2006-0315	Empire District Electric Co.	Direct	Rate of Return Capital Structure
12/13/2005	ER-2005-0436	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Surrebuttal	Rate of Return Capital Structure
11/18/2005	ER-2005-0436	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Rebuttal	Rate of Return Capital Structure
10/14/2005	ER-2005-0436	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Direct	Rate of Return Capital Structure
11/24/2004	ER-2004-0570	Empire District Electric Co.	Surrebuttal	Rate of Return Capital Structure
11/04/2004	ER-2004-0570	Empire District Electric Co.	Rebuttal	Rate of Return Capital Structure
09/20/2004	ER-2004-0570	Empire District Electric Co.	Direct	Rate of Return
07/19/2004	GR-2004-0209	Missouri Gas Energy	True-Up Direct	Rate of Return Capital Structure
06/14/2004	GR-2004-0209	Missouri Gas Energy	Surrebuttal	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
05/24/2004	GR-2004-0209	Missouri Gas Energy	Rebuttal	Rate of Return Capital Structure
04/15/2004	GR-2004-0209	Missouri Gas Energy	Direct	Rate of Return Capital Structure
03/11/2004	IR-2004-0272	Fidelity Telephone Company	Direct	Rate of Return Capital Structure
02/13/2004	GR-2004-0072	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Rebuttal	Rate of Return Capital Structure
02/13/2004	ER-2004-0034	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Surrebuttal	Rate of Return Capital Structure
02/13/2004	HR-2004-0024	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks-L&P	Surrebuttal	Rate of Return Capital Structure
01/26/2004	HR-2004-0024	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks L&P	Rebuttal	Rate of Return Capital Structure
01/26/2004	ER-2004-0034	Aquila, Inc. dba Aquila Networks-MPS and Aquila Networks L&P	Rebuttal	Rate of Return Capital Structure
01/09/2004	WT-2003-0563	Osage Water Company	Rebuttal	Rate of Return Capital Structure
01/09/2004	ST-2003-0562	Osage Water Company	Rebuttal	Rate of Return Capital Structure
01/06/2004	GR-2004-0072	Aquila, Inc.	Direct	Rate of Return Capital Structure
12/19/2003	ST-2003-0562	Osage Water Company	Direct	Rate of Return Capital Structure
12/19/2003	WT-2003-0563	Osage Water Company	Direct	Rate of Return Capital Structure
12/09/2003	ER-2004-0034	Aquila, Inc.	Direct	Rate of Return Capital Structure
12/09/2003	HR-2004-0024	Aquila, Inc.	Direct	Rate of Return Capital Structure
12/05/2003	WC-2004-0168	Missouri-American Water Co	Surrebuttal	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
12/05/2003	WR-2003-0500	Missouri-American Water Co	Surrebuttal	Rate of Return Capital Structure
11/10/2003	WR-2003-0500	Missouri-American Water Company	Rebuttal	Rate of Return Capital Structure
11/10/2003	WC-2004-0168	Missouri-American Water Company	Rebuttal	Rate of Return Capital Structure
10/03/2003	WC-2004-0168	Missouri-American Water Company	Direct	Rate of Return Capital Structure
10/03/2003	WR-2003-0500	Missouri-American Water Company	Direct	Rate of Return Capital Structure
03/17/2003	GM-2003-0238	Southern Union Co. dba Missouri Gas Energy	Rebuttal	Insulation
10/16/2002	ER-2002-424	The Empire District Electric Company	Surrebuttal	Rate of Return Capital Structure
09/24/2002	ER-2002-424	The Empire District Electric Company	Rebuttal	Rate of Return Capital Structure
08/16/2002	ER-2002-424	The Empire District Electric Company	Direct	Rate of Return Capital Structure
08/06/2002	TC-2002-1076	BPS Telephone Company	Direct	Rate of Return Capital Structure
01/22/2002	ER-2001-672	UtiliCorp United Inc. dba Missouri Public Service	Surrebuttal	Rate of Return Capital Structure
01/22/2002	EC-2002-265	UtiliCorp United Inc. dba Missouri Public Service	Surrebuttal	Rate of Return Capital Structure
01/08/2002	ER-2001-672	UtiliCorp United Inc. dba Missouri Public Service	Rebuttal	Rate of Return Capital Structure
01/08/2002	EC-2002-265	UtiliCorp United Inc. dba Missouri Public Service	Rebuttal	Rate of Return Capital Structure
12/06/2001	ER-2001-672	UtiliCorp United Inc. dba Missouri Public Service	Direct	Rate of Return Capital Structure
12/06/2001	EC-2002-265	UtiliCorp United Inc. dba Missouri Public Service	Direct	Rate of Return Capital Structure
05/22/2001	GR-2001-292	Missouri Gas Energy, A Division of Southern Union Company	Rebuttal	Rate of Return Capital Structure

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
04/19/2001	GR-2001-292	Missouri Gas Energy, A Division of Southern Union Company	Direct	Rate of Return Capital Structure
03/01/2001	TT-2001-328	Oregon Farmers Mutual Telephone Company	Rebuttal	Rate of Return Capital Structure
02/28/2001	TR-2001-344	Northeast Missouri Rural Telephone Company	Direct	Rate of Return Capital Structure
01/31/2001	TC-2001-402	Ozark Telephone Company	Direct	Rate of Return Capital Structure

1 **EXPERIENCE AND EDUCATION**

2 **OF**

3 **ROBERT E. SCHALLENBERG**

4
5 Q. Please state your name and business address.

6 A. My name is Robert E. Schallenberg. My business address is 200 Madison
7 Street, Jefferson City, Missouri, 65101.

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

9 A. I am the Operational Analysis Manager at the Missouri Public Service
10 Commission (“MoPSC” or “Commission”).

11 Q. Please describe your educational background and work experience.

12 A. I am a 1976 graduate of the University of Missouri at Kansas City with a
13 Bachelor of Science degree and major emphasis in Accounting. In November 1976,
14 I successfully completed the Uniform Certified Public Accountant (“CPA”) examination and
15 subsequently received the CPA certificate. In 1989, I received my CPA license in Missouri.
16 I began my employment with the MoPSC as a Public Utility Accountant in November 1976.
17 I remained on the Staff of the MoPSC until May 1978, when I accepted the position of Senior
18 Regulatory Auditor with the Kansas State Corporation Commission. In October 1978,
19 I returned to the Staff of the MoPSC. Most immediately prior to October 1997, I was an
20 Audit Supervisor/Regulatory Auditor V. During my career as an auditor, I was involved in a
21 direct role in processing the cases listed in the following pages. In October 1997, I was named
22 Division Director of the Utility Services Division of the MoPSC. In November 2011, my
23 group became the Auditing, Accounting and Financial Analysis Department. During my term
24 in senior management, I was involved in the strategic aspects of cases listed in the following
25 pages during this period as well as performing management activities.

26 Q. Please describe your responsibilities and experience while employed at the
27 MoPSC as a Regulatory Auditor V?

28 A. As a Regulatory Auditor V for the MoPSC, I had several areas of
29 responsibility. I was required to have and maintain a high degree of technical and substantive

1 knowledge in utility regulation and regulatory auditing. Among my various responsibilities as
2 a Regulatory Auditor V were:

- 3 1. To conduct the timely and efficient examination of the accounts, books,
4 records and reports of jurisdictional utilities;
- 5 2. To aid in the planning of audits and investigations, including staffing
6 decisions, and in the development of Staff positions in cases to which the
7 Accounting Department of the MoPSC was assigned, in cooperation with Staff
8 management as well as other Staff;
- 9 3. To serve as lead auditor, as assigned on a case-by-case basis, and to
10 report to the Assistant Manager-Accounting at the conclusion of the case on
11 the performance of less experienced auditors assigned to the case, for use in
12 completion of annual written performance evaluations;
- 13 4. To assist in the technical training of other auditors in the
14 Accounting Department;
- 15 5. To prepare and present testimony in proceedings before the MoPSC,
16 the Federal Communications Commission ("FCC") and the Federal Energy
17 Regulatory Commission ("FERC"), and aid MoPSC Staff attorneys and the
18 MoPSC's Washington, D.C. counsel in the preparation of pleadings and for
19 hearings and arguments, as requested; and
- 20 6. To review and aid in the development of audit findings and prepared
21 testimony to be filed by other auditors in the Accounting Department.

22 The MoPSC has relied on the Regulatory Auditor V position to be able to present and defend
23 positions both in filed testimony and orally at hearing. I have had many occasions to present
24 testimony before the MoPSC on issues ranging from the prudence of building power plants to
25 the appropriate method of calculating income taxes for ratemaking purposes. I have worked
26 in the area of telephone, electric and gas utilities. I have taken depositions on behalf of the
27 MoPSC in FERC dockets. The following pages contain a listing of cases and issues on which
28 I have worked at the MoPSC. My responsibilities were expanded to assist in federal cases
29 involving the MoPSC as assigned.

1 Q. Have you previously submitted testimony in proceedings before the FERC?

2 A. Yes. I submitted testimony in Docket Nos. RP94-365-000, RP95-136-000,
3 RP96-173-000, et al. These dockets were cases involving Williams Natural Gas Company
4 (“WNG”). WNG provides gas transportation and storage services for local distribution
5 companies serving the western portion of Missouri. WNG provides service to Missouri Gas
6 Energy which serves the Kansas City area. My testimony in Docket No. RP94-365-000
7 involved a prudence challenge of the costs that WNG sought to recover in that case. I also
8 filed testimony regarding certain cost of service issues in Docket No. RP95-136-000, WNG's
9 rate case before the FERC. These issues included affiliated transactions between WNG and
10 its parent. I also conducted depositions on this Commission's behalf regarding affiliated
11 transactions between WNG and its parent company. I filed testimony in Docket No. RP96-
12 173-000, et al., on the issue of whether the costs in question met FERC's eligibility criteria
13 for recovery under FERC Order No. 636.

14 I submitted testimony in Docket No. RP96-199-000. That case was a Mississippi
15 River Transmission Corporation (“MRT”) rate case. MRT provides gas transportation and
16 storage services for local gas distribution companies serving the eastern portion of Missouri.
17 MRT provides service to Laclede Gas Company (“Laclede”) which serves the St. Louis area.
18 My testimony in Docket No. RP96-199-000 involved cost of service issues. These issues
19 included affiliated transactions between MRT and its parent company.

20 Q. What expertise do you have relative to Missouri's affiliate transactions rules as
21 applied to electric and gas utilities, 4 CSR 240-20.105 and 4 CSR 240-40.105?

22 A. I helped draft the Missouri affiliate transactions rules which were to apply to
23 not just to the telecommunications industry. The rules were developed based on a
24 Commission initiative. The Commission wanted greater administrative efficiency as affiliate
25 transactions were playing a greater role in Southwestern Bell Telephone Company (“SWBT”)
26 rate cases. The number of affiliate transaction issues was increasing in SWBT rate cases and
27 lack of documentation of key information (e.g., time reporting of executive and non-executive
28 personnel, determination and charging of costs, determination of and charging of market
29 value, etc.) made the affiliate issues more difficult to address and resolve. The Commission's
30 affiliate transactions rules were influenced by the affiliate transactions rules applied by
31 the FCC.

1 Through the National Association of Regulatory Utility Commissioners (“NARUC”)
2 I have experience in examination of the telephone implementation of safeguards against
3 affiliate transaction abuse and participated on joint audits with other states and the FCC
4 before the Bell System divestiture and telephones/telecommunications were deregulated in
5 Missouri. I was familiar with the SWBT implementation of its affiliate transactions
6 protections as well as those of General Telephone Company.

7 Q. Was it thought that affiliate transactions rules were needed only for the
8 telephone/telecommunications industry?

9 A. No. Among other things, there was divestiture of the Bell System and there
10 was deregulation of the state telephone/telecommunications industry in Missouri so the
11 affiliate transactions rule that was viewed as needed for the telephone/telecommunications
12 industry was ultimately developed for the electric, gas and steam heat regulated industries that
13 are covered by Chapter 393.

14 Q. What were the initial reactions of some utilities to the Commission’s adopting
15 of the affiliate transactions rules?

16 A. Initially, some Missouri utilities would not implement the rules the
17 Commission adopted. Certain companies ultimately appealed the affiliate transactions rules
18 to the Missouri Supreme Court. The Supreme Court decision identifies Atmos Energy
19 Corporation (“Atmos”); Missouri Gas Energy (“MGE”); Laclede Gas Company (“Laclede”);
20 Trigen–Kansas City Energy Corporation (“Trigen”); Ameren Corporation (“Ameren”); and
21 Union Electric Company (“UE”), d/b/a AmerenUE as the companies appealing the
22 Commission’s adoption of affiliate transactions rules.

23 Q. Have you worked on any other Commission CAM case?

24 A. Yes. I have been working in and continue to work in File No. EO-2014-0189,
25 In the Matter of Kansas City Power & Light Company (“KCPL”) and KCP&L Greater
26 Missouri Operations Company's (“GMO”) Application for Approval of Cost Allocation
27 Manual Application for Approval of Cost Allocation Manual.

CASE PROCEEDING PARTICIPATION

ROBERT E. SCHALLENBERG

<u>COMPANY</u>	<u>CASE NO.</u>
Spire, Inc. EnergySouth, Inc.	GM-2016-0342
Great Plains Energy, Inc. Westar Energy, Inc.	EM-2016-0324
The Empire District Electric Company, Liberty Utilities (Central) Co. and Liberty Sub Corp.	EM-2016-0213
Laclede Gas Company	GF-2015-0181
The Empire District Electric Company	AO-2012-0062
KCP&L Greater Missouri Operations Company	ER-2010-0356
Kansas City Power & Light Company	ER-2010-0355
Great Plains Energy Incorporated, Kansas City Power & Light Company	ER-2009-0090
Great Plains Energy Incorporated, Kansas City Power & Light Company	ER-2009-0089
Great Plains Energy Incorporated, Kansas City Power & Light Company, Aquila, Inc.	EM-2007-0374
Union Electric Company, d/b/a AmerenUE	ER-2007-0002
Missouri Pipeline Company	GC-2006-0491
Aquila, Inc.	ER-2005-0436
Union Electric Company, d/b/a AmerenUE	EA-2005-0180
Union Electric Company, d/b/a AmerenUE	EC-2002-1
Mississippi River Transmission	RP96-199-000
Williams Natural Gas Company	RP96-173-000
Williams Natural Gas Company	RP95-136-000
Williams Natural Gas Company	RP94-365-000
Laclede Gas Company	GR-94-220
Western Resources	GM-94-40
Western Resources	GR-93-240
St. Joseph Light & Power Company	ER-93-41

CASE PROCEEDING PARTICIPATION

ROBERT E. SCHALLENBERG

<u>COMPANY</u>	<u>CASE NO.</u>
Southwestern Bell Telephone Company	TC-93-224
St. Joseph Light & Power Company	EC-92-214
Kansas Power & Light Company	GR-91-291
Kansas Power & Light Company	EM-91-213
Arkansas Power & Light Company	EM-91-29
Missouri Public Service Company	ER-90-101
Southwestern Bell Telephone Company	TR-90-98
General Telephone	TR-89-182
Southwestern Bell Telephone Company	TO-89-56
Southwestern Bell Telephone Company	TC-89-14
Union Electric Company	EC-87-114
General Telephone	TC-87-57
General Telephone	TM-87-19
General Telephone	TR-86-148
Southwestern Bell Telephone Company	TR-86-84
Kansas City Power & Light Company	EO-85-185
Kansas City Power & Light Company	ER-85-128
Southwestern Bell Telephone Company	TR-83-253
Kansas City Power & Light Company	ER-83-49
Southwestern Bell Telephone Company	TR-82-199
Kansas City Power & Light Company	HR-82-67
Kansas City Power & Light Company	ER-82-66
Southwestern Bell Telephone Company	TO-82-3
Southwestern Bell Telephone Company	TR-81-208
Kansas City Power & Light Company	ER-81-42
Southwestern Bell Telephone Company	TR-80-256
United Telephone Company of Missouri	TR-80-235

CASE PROCEEDING PARTICIPATION

ROBERT E. SCHALLENBERG

<u>COMPANY</u>	<u>CASE NO.</u>
Kansas City Power & Light Company	ER-80-204
Kansas City Power & Light Company	ER-80-48
Kansas City Power & Light Company	ER-80-48
Southwestern Bell Telephone Company	TR-79-213
Gas Service Company	GR-79-114
Missouri Public Service Company	ER-79-60
Missouri Public Service Company	ER-79-61
Kansas City Power & Light Company	ER-78-252
Missouri Public Service Company	GR-78-30
Missouri Public Service Company	ER-78-29
Gas Service Company	GR-78-70
Kansas City Power & Light Company	ER-77-118

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

The Empire District Electric Company
Case No. AO-2012-0062
Date: September 9, 2016 (Direct)
Areas: Affiliated Transactions; Cost Allocation Manual

Spire, Incorporated
EnergySouth, Inc.
Case No. GM-2016-0342
Date: September 1, 2016 (Investigation Report)
Areas: Affiliated Transactions

Great Plains Energy Incorporated
Westar Energy, Inc.
Case No. EM-2016-0324
Date: July 25, 2016 (Investigation Report)
Areas: Affiliated Transactions

The Empire District Electric Company,
Liberty Utilities (Central) Co. and Liberty Sub Corp.
Case No. EM-2016-0213
Date: July 20, 2016 (Rebuttal)
Areas: Affiliated Transactions

Laclede Gas Company
Case No. GF-2015-0181
Date: June 18, 2015
Areas: Finance Authority

KCP&L Greater Missouri Operations Company
Case No. ER-2010-0356
Date: November 4, 2010 (Report)
Areas: Construction Audit and Prudence Review

Kansas City Power & Light Company
Case No. ER-2010-0355
Date: November 4, 2010 (Report)
Areas: Construction Audit and Prudence Review

Great Plains Energy Incorporated,
Kansas City Power & Light Company
Case No. ER-2009-0090
Date: April 9, 2009 (Surrebuttal)
Areas: Iatan Prudence Review

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

Great Plains Energy Incorporated,
Kansas City Power & Light Company
Case No. ER-2009-0089
Date: April 7, 2009 (Surrebuttal)
Areas: Iatan Prudence Review

Great Plains Energy Incorporated,
Kansas City Power & Light Company, Aquila, Inc.
Case No. EM-2007-0374
Date: October 12, 2007 (Rebuttal and
Staff Report of Evaluation and Recommendations)
Areas: GPE Acquisition of Aquila

Union Electric Company, d/b/a AmerenUE
Case No. ER-2007-0002
Date: February 28, 2007 (Surrebuttal)
Areas: EEInc.

Date: January 31, 2007 (Rebuttal)
Areas: EEInc. and 4 CSR 240-10.020

Missouri Pipeline Company
Case No. GC-2006-0491
Date: September 6, 2006 (Direct)
November 17, 2006 (Surrebuttal)
Areas: Affiliate Transactions, Tariff Violations and Associated Penalties;
Transportation Tariffs

Aquila, Inc.
Case No. ER-2005-0436
Date: October, 14 2005 (Direct)
December 13, 2005 (Surrebuttal)
Areas: Unit Ownership Costs

Union Electric Company, d/b/a AmerenUE
Case No. EA-2005-0180
Date: October 15, 2005 (Rebuttal)
Areas: East Transfer

Union Electric Company d/b/a AmerenUE
Case No.: EC-2002-1
Date: June 24, 2002
Area: Overview, 4 CSR 240-10.020, Alternative Regulation Plan

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

Laclede Gas Company
Case No. GR-94-220
Date: July 1, 1994
Areas: Property Taxes, Manufactured Gas Accruals, Deregulated Cost Assignments

Western Resources
Case No. GM-94-40
Date: November 29, 1993
Areas: Jurisdictional Consequences of the Sale of Missouri Gas Properties

Kansas Power & Light Company
Case No. EM-91-213
Date: April 15, 1991
Areas: Purchase of Kansas Gas & Electric Company

Arkansas Power & Light Company and Union Electric Company
Case No. EM-91-29
Date: 1990-1991
Areas: No pre-filed rebuttal testimony by Staff before non-unanimous stipulation and agreement reached.

General Telephone Company of the Midwest
Case No. TM-87-19
Date: December 17, 1986
Areas: Merger

Union Electric Company
Case No. EC-87-114
Date: April 27, 1987
Areas: Elimination of Further Company Phase-In Increases, Write-Off of Callaway I to Company's Capital Structure

General Telephone Company of the Midwest
Case No. TC-87-57
Date: December 22, 1986
Areas: Background and Overview, GTE Service Corporation, Merger Adjustment, Adjustments to Income Statement

Southwestern Bell Telephone Company
Case No. TR-86-84
Date: 1986
No prefiled direct testimony by Staff - case settled before Staff direct testimony filed.

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

Kansas City Power & Light Company

Case Nos. EO-85-185 and ER-85-128

Date: April 11, 1985

Areas: Phase I - Electric Jurisdictional Allocations

Date: June 21, 1985

Areas: Phase III - Deferred Taxes Offset to Rate Base

Date: July 3, 1985

Areas: Phase IV - 47% vs. 41.5% Ownership, Interest, Phase-In, Test Year/True-Up,
Decision to Build Wolf Creek, Non-Wolf Creek Depreciation Rates, Depreciation
Reserve

Southwestern Bell Telephone Company

Case No. TR-83-253

Date: September 23, 1983

Areas: Cost of Divestiture Relating to AT&T Communications, Test Year, True-Up,
Management Efficiency and Economy

Kansas City Power & Light Company

Case No. ER-83-49

Date: February 11, 1983

Areas: Test Year, Fuel Inventories, Other O&M Expense Adjustment, Attrition Adjustment,
Fuel Expense-Forecasted Fuel Prices, Deferred Taxes Offset to Rate Base

Kansas City Power & Light Company

Case Nos. ER-82-66 and HR-82-67

Date: March 26, 1982

Areas: Indexing/Attrition, Normalization vs. Flow-Through, Deferred Taxes as an Offset to
Rate Base, Annualization of Amortization of Deferred Income Taxes, Cost of
Money/Rate of Return, Allocations, Fuel Inventories, Iatan AFDC Associated with
AEC Sale, Forecasted Coal and Natural Gas Prices, Allowance for Known and
Measurable Changes

Southwestern Bell Telephone Company

Case No. TR-82-199

Date: August 27, 1982

Areas: License Contract, Capitalized Property Taxes, Normalization vs. Flow-Through,
Interest Expense, Separations, Consent Decree, Capital Structure Relationship

Generic Telecommunications

Straight Line Equal Life Group and Remaining Life Depreciation Methods

Case No. TO-82-3

Date: December 23, 1981

Areas: Depreciation

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

Southwestern Bell Telephone Company

Case No. TR-81-208

Date: August 6, 1981

Areas: License Contract, Flow-Through vs. Normalization

Kansas City Power & Light Company

Case No. ER-81-42

Date: March 13, 1981

Areas: Iatan (AEC Sale), Normalization vs. Flow-Through, Allocations, Allowance for Known and Measurable Changes

Southwestern Bell Telephone Company

Case No. TR-80-256

Date: October 23, 1980

Areas: Flow-Through vs. Normalization

United Telephone Company of Missouri

Case No. TR-80-235

Date: December 1980

Areas: Rate of Return

Kansas City Power & Light Company

Case Nos. ER-80-48 and ER-80-204

Date: March 11, 1980

Areas: Iatan Station Excess Capacity, Interest Synchronization, Allocations

Southwestern Bell Telephone Company

Case No. TR-79-213

Date: October 19, 1979

Areas: Income Taxes, Deferred Taxes

Gas Service Company

Case No. GR-79-114

Date: June 15, 1979

Areas: Deferred Taxes as an Offset to Rate Base

Missouri Public Service Company

Case Nos. ER-79-60 and GR-79-61

Date: April 9, 1979

Areas: Depreciation Reserve, Cash Working Capital

**CASE SUMMARY OF INVOLVEMENT
OF
ROBERT E. SCHALLENBERG**

Missouri Public Service Company

Case Nos. ER-78-29 and GR-78-30

Date: August 10, 1978

Areas: Fuel Expense, Electric Materials and Supplies, Electric and Gas Prepayments,
Electric and Gas Cash Working Capital, Electric Revenues

While in the employ of the Kansas State Corporation Commission in 1978, Mr. Schallenberg worked on a Gas Service Company rate case and rate cases of various electric cooperatives.

Michael L. Stahlman

Education

- 2009 M. S., Agricultural Economics, University of Missouri, Columbia.
2007 B.A., Economics, Summa Cum Laude, Westminster College, Fulton, MO.

Professional Experience

- 2010 - Regulatory Economist, Missouri Public Service Commission
2007 – 2009 Graduate Research Assistant, University of Missouri
2008 Graduate Teaching Assistant, University of Missouri
2007 American Institute for Economic Research (AIER) Summer Fellowship Program
2006 Price Analysis Intern, Food and Agricultural Policy Research Institute (FAPRI), Columbia, MO
2006 Legislative Intern for State Representative Munzlinger
2005 – 2006 Certified Tutor in Macroeconomics, Westminster College, Fulton, MO
1998 – 2004 Engineering Watch Supervisor, United States Navy

Expert Witness Testimony

- Union Electric Company d/b/a AmerenUE GR-2010-0363
In the Matter of Union Electric Company d/b/a AmerenUE for Authority to File Tariffs Increasing Rates for Natural Gas Service Provided to Customers in the Company's Missouri Service Area
- Union Electric Company d/b/a Ameren Missouri GT-2011-0410
In the Matter of the Union Electric Company's (d/b/a Ameren Missouri) Gas Service Tariffs Removing Certain Provisions for Rebates from Its Missouri Energy Efficient Natural Gas Equipment and Building Shell Measure Rebate Program
- KCP&L Great Missouri Operations Company EO-2012-0009
In the Matter of KCP&L Greater Missouri Operations Company's Notice of Intent to File an Application for Authority to Establish a Demand-Side Programs Investment Mechanism
- Union Electric Company d/b/a Ameren Missouri EO-2012-0142
In the Matter of Union Electric Company d/b/a Ameren Missouri's Filing to Implement Regulatory Changes Furtherance of Energy Efficiency as Allowed by MEEIA
- Kansas City Power & Light Company EO-2012-0323
In the Matter of the Resource Plan of Kansas City Power & Light Company
- KCP&L Great Missouri Operations Company EO-2012-0324
In the Matter of the Resource Plan of KCP&L Greater Missouri Operations Company
- Kansas City Power & Light Company, KCP&L Great Missouri Operations Company, and Transource Missouri EA-2013-0098
EO-2012-0367
In the Matter of the Application of Transource Missouri, LLC for a Certificate of Convenience and Necessity Authorizing it to Construct, Finance, Own, Operate, and Maintain the Iatan-Nashua and Sibley-Nebraska City Electric Transmission Projects

cont'd Expert Witness Testimony

Michael L. Stahlman

Kansas City Power & Light Company	EO-2012-0135
KCP&L Great Missouri Operations Company	EO-2012-0136
In the Matter of the Application of Kansas City Power & Light Company [KCP&L Great Missouri Operations Company] for Authority to Extend the Transfer of Functional Control of Certain Transmission Assets to the Southwest Power Pool, Inc.	
Kansas City Power & Light Company	EU-2014-0077
KCP&L Great Missouri Operations Company	
In the Matter of the Application of Kansas City Power & Light Company and KCP&L Greater Missouri Operations Company for the Issuance of an Accounting Authority Order relating to their Electrical Operations and for a Contingent Waiver of the Notice Requirement of 4 CSR 240-4.020(2)	
Kansas City Power & Light Company	EO-2014-0095
In the Matter of Kansas City Power & Light Company's Notice of Intent to File an Application for Authority To Establish a Demand-Side Programs Investment Mechanism	
Veolia Energy Kansas City, Inc	HR-2014-0066
In the Matter of Veolia Energy Kansas City, Inc for Authority to File Tariffs to Increase Rates	
Grain Belt Express Clean Line, LLC	EA-2014-0207
In the Matter of the Application of Grain Belt Express Clean Line LLC for a Certificate of Convenience and Necessity Authorizing It to Construct, Own, Operate, Control, Manage, and Maintain a High Voltage, Direct Current Transmission Line and an Associated Converter Station Providing an Interconnection on the Maywood - Montgomery 345 kV Transmission Line	
Union Electric Company d/b/a Ameren Missouri	ER-2014-0258
In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff to Increase Its Revenues for Electric Service	
Empire District Electric Company	ER-2014-0351
In the Matter of The Empire District Electric Company for Authority to File Tariffs Increasing Rates for Electric Service Provided to Customers in the Company's Missouri Service Area	
Kansas City Power & Light Company	ER-2014-0370
In the Matter of Kansas City Power & Light Company's Request for Authority to Implement a General Rate Increase for Electric Service	
Kansas City Power & Light Company	EO-2014-0240
In the Matter of Kansas City Power & Light Company's Filing for Approval of Demand-Side Programs and for Authority to Establish a Demand-Side Programs Investment Mechanism	
KCP&L Great Missouri Operations Company	EO-2014-0241
In the Matter of KCP&L Greater Missouri Operations Company's Filing for Approval of Demand-Side Programs and for Authority to Establish a Demand-Side Programs Investment Mechanism	

cont'd Expert Witness Testimony
Michael L. Stahlman

- Ameren Transmission Company of Illinois EA-2015-0146
In the Matter of the Application of Ameren Transmission Company of Illinois for Other Relief or, in the Alternative, a Certificate of Public Convenience and Necessity Authorizing it to Construct, Install, Own, Operate, Maintain and Otherwise Control and Manage a 345,000-volt Electric Transmission Line from Palmyra, Missouri to the Iowa Border and an Associated Substation Near Kirksville, Missouri
- Empire District Electric Company ER-2016-0023
In the Matter of The Empire District Electric Company's Request for Authority to Implement a General Rate Increase for Electric Service
- KCP&L Great Missouri Operations Company ER-2016-0156
In the Matter of KCP&L Greater Missouri Operations Company's Request for Authority to Implement a General Rate Increase for Electric Service
- Kansas City Power & Light Company ER-2016-0285
In the Matter of Kansas City Power & Light Company's Request for Authority to Implement A General Rate Increase for Electric Service
- Union Electric Company d/b/a Ameren Missouri ER-2016-0179
In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff to Increase Its Revenues for Electric Service

Selected Manuscripts

- Stahlman, Michael and Laura M.J. McCann. "Technology Characteristics, Choice Architecture and Farmer Knowledge: The Case of Phytase." *Agriculture and Human Values* (2012) 29: 371-379.
- Stahlman, Michael. "The Amorality of Signals." Awarded in top 50 authors for SEVEN Fund essay competition, "The Morality of Profit."

Selected Posters

- Stahlman, Michael, Laura M.J. McCann, and Haluk Gedikoglou. "Adoption of Phytase by Livestock Farmers." Selected poster at the American Agricultural Economics Association Annual Meeting, Orlando, FL, July 27-29, 2008. Also presented at the USDA/CSREES Annual Meeting in St. Louis, MO in February 2009.
- McCann, Laura, Haluk Gedikoglu, Bob Broz, John Lory, Ray Massey, and Michael Stahlman. "Farm Size and Adoption of BMPs by AFOs." Selected poster at the 5th National Small Farm Conference in Springfield, IL in September 2009.