MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT ON

APPENDIX 1

Credentials

NextEra Energy Transmission Southwest, LLC ("NEET")

FILE NO. EA-2022-0234

Jefferson City, Missouri September 22, 202

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APPENDIX 1

STAFF CREDENTIALS

NextEra Energy Transmission Southwest, LLC ("NEET"),

File No. EA-2022-0234

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ALAN J. BAX

I graduated from the University of Missouri - Columbia with a Bachelor of Science degree in Electrical Engineering in December 1995. Concurrent with my studies, I was employed as an Engineering Assistant in the Energy Management Department of the University of Missouri – Columbia from the Fall of 1992 through the Fall of 1995. Prior to this, I completed a tour of duty in the United States Navy, completing a course of study at the Navy Nuclear Power School and a Navy Nuclear Propulsion Plant. Following my graduation from the University of Missouri - Columbia, I was employed by The Empire District Electric Company as a Staff Engineer until August 1999, at which time I began my employment with the Staff of the Missouri Public Service Commission. My current position is an Engineer in the Engineering Analysis Department, within the Industry Analysis Division. I presented in a Peer Review of Power Quality Regulations in the National Association of Regulatory Utility Commissioners (NARUC) outreach program with the Public Utilities Commission of Sri Lanka (PUCSL), supported by the Bureau of Energy Resources (ENR) at the United States Department of State. I am a member of the Institute of Electrical/Electronic Engineers (IEEE).

TESTIMONY AND REPORTS BEFORE THE MISSOURI PUBLIC SERVICE COMMISSION

BY ALAN J. BAX

COMPANY	CASE NUMBER
Aquila Networks – MPS	ER-2004-0034
Union Electric Company d/b/a AmerenUE	EO-2004-0108
Empire District Electric Company	ER-2002-0424
Kansas City Power and Light Company	EA-2003-0135
Union Electric Company d/b/a AmerenUE	EO-2003-0271
Aquila Networks – MPS	EO-2004-0603
Union Electric Company d/b/a AmerenUE	EC-2002-0117
Three Rivers and Gascosage Electric Coops	EO-2005-0122
Union Electric Company d/b/a AmerenUE	EC-2002-1
Aquila Networks – MPS	EO-2001-0384
Empire District Electric Company	ER-2001-299
Aquila Networks – MPS	EA-2003-0370
Union Electric Company d/b/a AmerenUE	EW-2004-0583
Union Electric Company d/b/a AmerenUE	EO-2005-0369
Trigen Kansas City	HA-2006-0294
Union Electric Company d/b/a AmerenUE	EC-2005-0352
Missouri Public Service	ER-2001-672
Aquila Networks – MPS	EO-2003-0543
Kansas City Power and Light Company	ER-2006-0314
Macon Electric Coop	EO-2005-0076
Aquila Networks – MPS	EO-2006-0244
Union Electric Company d/b/a AmerenUE	EC-2004-0556
Union Electric Company d/b/a AmerenUE	EC-2004-0598
Empire District Electric Company	ER-2004-0570
Union Electric Company d/b/a AmerenUE	EC-2005-0110
Union Electric Company d/b/a AmerenUE	EC-2005-0177
Union Electric Company d/b/a AmerenUE	EC-2005-0313
Empire District Electric Company	EO-2005-0275
Aquila Networks – MPS	EO-2005-0270
Union Electric Company d/b/a AmerenUE	EO-2006-0145
Empire District Electric Company	ER-2006-0315
Aquila Networks – MPS	ER-2005-0436

<u>COMPANY</u>	CASE NUMBER
Union Electric Company d/b/a AmerenUE	EO-2006-0096
West Central Electric Cooperative	EO-2006-0339
Kansas City Power and Light Company	ER-2006-0314
Union Electric Company d/b/a AmerenUE	EO-2008-0031
Union Electric Company d/b/a AmerenUE	EC-2009-0193
Empire District Electric Company	ER-2008-0093
Missouri Rural Electric Cooperative	EO-2008-0332
Grundy Electric Cooperative	EO-2008-0414
Osage Valley Electric Cooperative	EO-2009-0315
Union Electric Company d/b/a AmerenUE	EO-2009-0400
Union Electric Company d/b/a AmerenUE	EO-2008-0310
Aquila Networks – MPS	EA-2008-0279
West Central Electric Cooperative	EO-2008-0339
Empire District Electric Company	EO-2009-0233
Union Electric Company d/b/a/ AmerenUE	EO-2009-0272
Empire District Electric Company	EO-2009-0181
Union Electric Company d/b/a AmerenUE	ER-2008-0318
Kansas City Power and Light Company	ER-2009-0089
Kansas City Power and Light – GMO	ER-2009-0090
Union Electric Company d/b/a AmerenUE	ER-2010-0036
Empire District Electric Company	ER-2010-0130
Laclede Electric Cooperative	EO-2010-0125
Union Electric Company d/b/a AmerenUE	EC-2010-0364
Union Electric Company d/b/a AmerenUE	EO-2011-0052
Kansas City Power and Light Company	ER-2010-0355
Union Electric Company d/b/a AmerenUE	EO-2010-0263
Kansas City Power and Light – GMO	EO-2011-0137
Kansas City Power and Light – GMO	ER-2010-0356
Union Electric Company d/b/a AmerenUE	ER-2011-0028
Kansas City Power and Light – GMO	EO-2012-0119
Kansas City Power and Light Company	EO-2011-0137
Union Electric Company d/b/a AmerenUE	ER-2012-0121
Union Electric Company d/b/a/ Ameren Missouri	EX-2012-0332
Empire District Electric Company	EO-2011-0085
Empire District Electric Company	EO-2012-0192
Empire District Electric Company	EO-2013-0313
Union Electric Company d/b/a AmerenUE	ER-2012-0180
Union Electric Company d/b/a AmerenUE	EO-2013-0418

<u>COMPANY</u>	CASE NUMBER
City Utilities of Springfield	EO-2012-0441
Kansas City Power and Light – GMO	EO-2012-0367
Empire District Electric Company	ER-2011-0004
Union Electric Company d/b/a/ Ameren Missouri	ER-2012-0166
Kansas City Power and Light Company	ER-2012-0174
Union Electric Company d/b/a/ Ameren Missouri	ER-2013-0044
Kansas City Power and Light – GMO	ER-2012-0175
Central Missouri Electric Cooperative	EO-2015-0137
Empire District Electric Company	ER-2012-0345
Kansas City Power and Light Company	EO-2012-0367
Boone Electric Cooperative	EO-2015-0012
Transource Missouri, LLC	EA-2013-0098
Black River Electric Cooperative	EO-2015-0096
Union Electric Company d/b/a/ Ameren Missouri	EW-2012-0369
Empire District Electric Company	ER-2014-0351
Union Electric Company d/b/a/ Ameren Missouri	EO-2014-0044
Union Electric Company d/b/a/ Ameren Missouri	EO-2013-0418
Union Electric Company d/b/a/ Ameren Missouri	EE-2013-0511
Union Electric Company d/b/a/ Ameren Missouri	EO-2015-0017
Union Electric Company d/b/a/ Ameren Missouri	EO-2016-0087
Union Electric Company d/b/a/ Ameren Missouri	EO-2014-0009
Kansas City Power and Light Company	EO-2014-0128
Union Electric Company d/b/a/ Ameren Missouri	EO-2017-0358
Empire District Electric Company	EO-2016-0192
Empire District Electric Company	EO-2017-0217
Union Electric Company d/b/a/ Ameren Missouri	EO-2014-0296
Union Electric Company d/b/a/ Ameren Missouri	EO-2015-0328
Union Electric Company d/b/a/ Ameren Missouri	ER-2014-0258
Union Electric Company d/b/a/ Ameren Missouri	EX-2017-0153
Union Electric Company d/b/a/ Ameren Missouri	EO-2019-0391
Empire District Electric Company	EO-2018-0118
Empire District Electric Company	ER-2016-0023
Ozark Electric Cooperative Inc.	EO-2020-0163
Union Electric Company d/b/a/ Ameren Missouri	EC-2016-0235
Union Electric Company d/b/a/ Ameren Missouri	EO-2018-0058
Union Electric Company d/b/a/ Ameren Missouri	EE-2019-0395
Kansas City Power and Light – GMO	ER-2016-0156
Kansas City Power and Light – GMO	EO-2019-0061

COMPANY	CASE NUMBER
Kansas City Power and Light Company	ER-2014-0370
Union Electric Company d/b/a/ Ameren Missouri	EO-2017-0044
Kansas City Power and Light Company	ER-2016-0285
Empire District Electric Company	EO-2019-0381
Union Electric Company d/b/a/ Ameren Missouri	EE-2019-0395
Union Electric Company d/b/a/ Ameren Missouri	ER-2016-0179
Union Electric Company d/b/a/ Ameren Missouri	EO-2018-0278
Union Electric Company d/b/a/ Ameren Missouri	EO-2020-0315
Union Electric Company d/b/a/ Ameren Missouri	EO-2017-0127
Kansas City Power and Light Company	ER-2018-0145
Kansas City Power and Light Company – GMO	ER-2018-0146
Evergy Missouri West LLC	EO-2021-0388
Gridliance High Plains, LLC	EM-2022-0156
Union Electric Company d/b/a/ Ameren Missouri	EO-2021-0305
Union Electric Company d/b/a/ Ameren Missouri	EM-2021-0309
Union Electric Company d/b/a/ Ameren Missouri	ER-2019-0335
Union Electric Company d/b/a/ Ameren Missouri	EE-2019-0383
Osage Valley Electric Cooperative, LLC	EO-2022-0073
Ozark Border Electric Cooperative, LLC	EO-2022-0264
Evergy Missouri West LLC	EO-2021-0339
Union Electric Company d/b/a/ Ameren Missouri	EE-2021-0086
Union Electric Company d/b/a/ Ameren Missouri	EM-2022-0292
Liberty Utilities-Empire	EO-2021-0389
Laclede Electric Cooperative	EO-2022-0143
Empire District Electric Company	ER-2019-0374
Union Electric Company d/b/a/ Ameren Missouri	ET-2021-0082
Union Electric Company d/b/a/ Ameren Missouri	ER-2021-0240
Union Electric Company d/b/a/ Ameren Missouri	EO-2022-0226
Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West LLC	ER-2022-0130
Missouri Joint Municipal Utility Electric Commission	EM-2022-0156
Liberty Utilities-Empire	EO-2022-0226
Union Electric Company d/b/a/ Ameren Missouri	EO-2021-0401
Union Electric Company d/b/a/ Ameren Missouri	EM-2022-0094
Union Electric Company d/b/a/ Ameren Missouri	EO-2022-0102
Liberty Utilities-Empire	EO-2022-0132
Liberty Utilities-Empire	ER-2021-0312

CLAIRE M. EUBANKS, PE

PRESENT POSITION:

I am the Manager of the Engineering Analysis Department, Industry Analysis Division of the Missouri Public Service Commission.

EDUCATIONAL BACKGROUND AND WORK EXPERIENCE:

I received my Bachelor of Science degree in Environmental Engineering from the University of Missouri – Rolla, now Missouri University of Science and Technology, in May 2006. I am a licensed professional engineer in the states of Missouri and Arkansas. Immediately after graduating from UMR, I began my career with Aquaterra Environmental Solutions, Inc., now SCS Aquaterra, an engineering consulting firm based in Overland Park, Kansas. During my time with Aquaterra, I worked on various engineering projects related to the design, construction oversight, and environmental compliance of solid waste landfills. I began my employment with the Commission in November 2012 and was promoted to my current position in April 2020.

CASE HISTORY:

Case Number	Utility	Туре	Issue
EA-2012-0281	Ameren	Rebuttal	Certificate of Convenience and Necessity
EC-2013-0379 EC-2013-0380	KCP&L KCP&L GMO	Rebuttal	RES Compliance
EO-2013-0458	Empire	Memorandum	RES Compliance Plan & Report
EO-2013-0462	Ameren	Memorandum	RES Compliance Report
EO-2013-0503	Ameren	Memorandum	RES Compliance Plan
EO-2013-0504	KCPL	Memorandum	RES Compliance Plan & Report
EO-2013-0505	GMO	Memorandum	RES Compliance Plan & Report
ET-2014-0059	KCP&L GMO	Rebuttal	RES Retail Rate Impact
ET-2014-0071	KCP&L	Rebuttal	RES Retail Rate Impact
ET-2014-0085	Ameren	Rebuttal	RES Retail Rate Impact
ER-2014-0258	Ameren	Cost of Service Report, Surrebuttal	RES, In-Service

Case Number	Utility	Туре	Issue
EO-2014-0151	KCP&L GMO	Memorandum	RESRAM
EO-2014-0357	Electric	Memorandum	Solar Rebates Payments
EO-2014-0287	KCPL	Memorandum	RES Compliance Plan
EO-2014-0288	GMO	Memorandum	RES Compliance Plan
EO-2014-0289	KCPL	Memorandum	RES Compliance Report
EO-2014-0290	GMO	Memorandum	RES Compliance Plan
ER-2014-0370	KCP&L	Cost of Service Report	RES
EX-2014-0352	N/A	Live Comments	RES rulemaking
EC-2015-0155	GMO	Memorandum	Solar Rebate Complaint
EO-2015-0260	Empire	Memorandum	RES Compliance Plan & Report
EO-2015-0263	KCPL	Memorandum	RES Compliance Report
EO-2015-0264	GMO	Memorandum	RES Compliance Report
EO-2015-0265	KCPL	Memorandum	RES Compliance Plan
EO-2015-0266	GMO	Memorandum	RES Compliance Plan
EO-2015-0267	Ameren	Memorandum	RES Compliance Plan & Report
EO-2015-0252	GMO	Staff Report	Integrated Resource Plan – Renewable Energy Standard
EO-2015-0254	KCPL	Staff Report	Integrated Resource Plan – Renewable Energy Standard
EA-2015-0256	KCP&L GMO	Live Testimony	Greenwood Solar CCN
EO-2015-0279	Empire	Memorandum	RES Compliance Plan & Report
ET-2016-0185	KCP&L	Memorandum	Solar Rebate Tariff Suspension
EO-2016-0280	KCPL	Memorandum	RES Compliance Report
EO-2016-0281	GMO	Memorandum	RES Compliance Report
EO-2016-0282	KCPL	Memorandum	RES Compliance Plan
EO-2016-0283	GMO	Memorandum	RES Compliance Plan
EO-2016-0284	Ameren	Memorandum	RES Compliance Plan & Report
ER-2016-0023	Empire	Report	RES
ER-2016-0156	KCP&L GMO	Rebuttal	RESRAM Prudence Review

Case Number	Utility	Type	Issue
EA-2016-0208	Ameren	Rebuttal	Certificate of Convenience and Necessity
ER-2016-0285	KCPL	Cost of Service Report	In-Service, Greenwood Solar
ER-2016-0179	Ameren	Rebuttal	In-Service, Labadie Landfill
EW-2017-0245	Electric	Report	Working Case on Emerging Issues in Utility Regulation
EO-2017-0268	Ameren	Memorandum	RES Compliance Plan & Report
EO-2017-0269	KCPL	Memorandum	RES Compliance Report
EO-2017-0271	KCPL	Memorandum	RES Compliance Plan
GR-2017-0215 & GR-2017-0216	Spire	Rebuttal & Surrebuttal	CHP for Critical Infrastructure
GR-2018-0013	Liberty Utilities (Midstates Natural Gas)	Rebuttal	CHP Outreach Initiative for Critical Infrastructure Resiliency
EO-2018-0287	Ameren	Memorandum	RES Compliance Plan & Report
EO-2018-0288	KCPL	Memorandum	RES Compliance Report
EO-2018-0290	KCPL	Memorandum	RES Compliance Plan
EA-2016-0207	Ameren	Memorandum	Certificate of Convenience and Necessity
ER-2018-0146	GMO	Cost of Service Report	RESRAM Prudence Review
ER-2018-0145 ER-2018-0146	KCPL GMO	Class Cost of Service Report, Rebuttal	Solar Subscription Pilot Rider, Standby Service Rider
EA-2018-0202	Ameren	Staff Report	Certificate of Convenience and Necessity
EE-2019-0076	Ameren	Memorandum	Variance Request – Reliability Reporting
EA-2019-0021	Ameren	Staff Report	Certificate of Convenience and Necessity
EA-2019-0010	Empire	Staff Report	Certificate of Convenience and Necessity
EX-2019-0050	N/A	Live Comments	Renewable Energy Standard

Case Number	Utility	Туре	Issue
EO-2019-0315	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard
EO-2019-0316	GMO	Memorandum	Renewable Energy Standard
EO-2019-0317	KCPL	Memorandum in Response to Commission Questions	Renewable Energy Standard
EO-2019-0318	GMO	Memorandum	Renewable Energy Standard
ER-2019-0335	Ameren	Cost of Service Report	Renewable Energy Standard, In- Service Criteria
EA-2019-0371	Ameren	Staff Report	Certificate of Convenience and Necessity
EO-2020-0329	Evergy Missouri Metro	Memorandum	Renewable Energy Standard
EO-2020-0330	Evergy Missouri West	Memorandum	Renewable Energy Standard
EE-2021-0237	Evergy Missouri Metro	Memorandum	Cogeneration Tariff
EE-2021-0238	Evergy Missouri West	Memorandum	Cogeneration Tariff
EE-2021-0180	Ameren Missouri	Memorandum	Electric Meter Variance
ET-2021-0151 and 0269	Evergy	Memorandum, Rebuttal Report	Transportation Electrification
AO-2021-0264	Various	Staff Report	February 2021 Cold Weather Event
EW-2021-0104	n/a	Staff Report	RTO Membership
EW-2021-0077	n/a	Staff Report	FERC Order 2222
EO-2021-0339	Evergy Missouri West	Memorandum	Territorial Agreement
GR-2021-0108	Spire	Rebuttal	Automated Meter Reading Opt-out Tariff
EA-2021-0087	ATXI	Rebuttal Report	Certificate of Convenience and Necessity
ER-2021-0240	Ameren Missouri	Cost of Service Report Rebuttal	In-Service Bat Mitigation

Case Number	Utility	Туре	Issue
ER-2021-0312	Empire	Cost of Service Report	Construction Audit – Engineering Review, In-service
EO-2022-0061	Evergy Missouri West	Surrebuttal	Special Rate/ Renewable Energy Standard
EA-2022-0099	ATXI	Rebuttal	Certificate of Convenience and Necessity
ER-2022-0129	Evergy Missouri West	Direct Rebuttal	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues
ER-2022-0130	Evergy Missouri Metro	Direct Rebuttal Surrebuttal/True-Up	Advanced Metering Infrastructure, Reliability, Transmission & Distribution Investment, PISA reporting, Misc. Tariff issues
EE-2022-0329	Ameren Missouri	Memorandum	Variance Request
GR-2022-0179	Spire Missouri	Direct	Metering Infrastructure

Jordan T. Hull

CURRENT POSITION:

I am currently an Associate Engineer in the Energy Resources Department, Industry Analysis Division, of the Missouri Public Service Commission.

EDUCATIONAL BACKGROUND & WORK EXPERIENCE:

I received my Bachelor of Science Degree in Biological Engineering from the University of Missouri-Columbia in May of 2016. In June of 2016 I began employment with the Missouri Department of Natural Resources in the Air Pollution Control Program as an Environmental Engineer I. In June of 2017, I was promoted to an Environmental Engineer II within the Air Pollution Control Program. I began employment with the commission in November of 2018.

Summary of Case Involvement:

Case Number	Utility	Type	Issues
EO-2019-0067	KCP&L GMO	FAC Prudency	Heat Rates, Plant
		Review	Outages, Generation
			Utilization
EO-2019-0068	KCP&L	FAC Prudency	Heat Rates, Plant
		Review	Outages, Generation
			Utilization
EO-2019-0049	Liberty-Empire	Integrated Resource	Misc.
	Electric Company	Plan	
EO-2019-0132 &	KCP&L	MEEIA	Misc.
EO-2019-0133			
EO-2019-0257	Ameren- Missouri	FAC Prudency	Heat Rates, Plant
		Review	Outages, Generation
			Utilization
ER-2019-0335	Ameren- Missouri	Rate Case	Heat Rates
ER-2019-0374	Liberty-Empire	Rate Case	Heat Rates
	Electric Company		
EO-2020-0059	Liberty-Empire	FAC Prudency	Heat Rates, Plant
	Electric Company	Review	Outages, Generation
			Utilization
EO-2020-0262	EvergyWest	FAC Prudency	Heat Rates, Plant
		Review	Outages, Generation
			Utilization, Self-
			Commitment.

EO-2020-0263	Evergy Metro	FAC Prudency Review	Heat Rates, Plant Outages, Generation Utilization, Self- Commitment
EO-2021-0060	Ameren- Missouri	FAC Prudency Review	Heat Rates, Plant Outages, Generation Utilization, Self- Commitment
EO-2021-0281	Liberty- Empire	FAC Prudency Review	Heat Rate, Plant Outages, Generation Utilization, Self- Commitment
EO-2021-0035	Evergy- Metro	Integrated Resource Plan	Misc.
EO-2021-0036	Evergy- West	Integrated Resource Plan	Misc.
EO-2021-0060	Ameren- Missouri	FAC Prudency Review	Heat Rate, Plant Outages, Generation Utilization, Self- Commitment
ER-2021-0240	Ameren- Missouri	Rate Case	Heat Rate
ER-2021-0312	Liberty- Empire	Rate Case	Heat Rate
EO-2021-0331	Liberty- Empire	Integrated Resource Plan	Misc.
EO-2022-0064	Evergy- Metro	FAC Prudency Review	Heat Rate, Plant Outages, Generation Utilization, Self- Commitment
EO-2022-0065	Evergy-West	FAC Prudency Review	Heat Rate, Plant Outages, Generation Utilization, Self- Commitment
EA-2022-0099	Ameren- Missouri	Transmission	Qualified to construct
EO-2022-0236	Ameren- Missouri	FAAC Prudency Review	Heat Rate, Plant Outages, Generation Utilization, Self- Commitment
			1

Sarah L.K. Lange

I received my J.D. from the University of Missouri, Columbia, in 2007, and am licensed to practice law in the State of Missouri. I received my B.S. in Historic Preservation from Southeast Missouri State University, and took courses in architecture and literature at Drury University. Since beginning my employment with the MoPSC I have taken courses in economics through Columbia College and courses in energy transmission through Bismarck State College, and have attended various trainings and seminars, indicated below.

I began my employment with the Commission in May 2006 as an intern in what was then known as the General Counsel's Office. I was hired as a Legal Counsel in September 2007, and was promoted to Associate Counsel in 2009, and Senior Counsel in 2011. During that time my duties 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.

In July 2013 I was hired as a Regulatory Economist III in what is now known as the Tariff / Rate Design Department. 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 regulatory adjustment mechanisms 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. I have also participated before the Commission under the name Sarah L. Kliethermes.

Presentations

Midwest Energy Policy Series – Impact of ToU Rates on Energy Efficiency (August 14, 2020) Billing Determinants Lunch and Learn (March 27, 2019)

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)

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

Relevant Trainings and Seminars

Regional Training on Integrated Distribution System Planning for Midwest/MISO Region (October 13-15, 2020)

"Fundamentals of Utility Law" Scott Hempling lecture series (January – April, 2019)

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 (January 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)

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

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

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

Utility Basics (Oct. 14–19, 2007)

Testimony and Staff Memoranda

Company	Case No.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission Southw	
Certificate of Public Convenience and Necessity to Construct, Install,	· · · · · · · · · · · · · · · · · · ·
Maintain, and Otherwise Control and Manage a 345 kV Transmission	-
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Authority to	
General Rate Increase for Natural Gas Service Provided in the Compa	-
Service Areas	
Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri West for	
Authorizing the Financing of Extraordinary Storm Costs Through an	
Securitized Utility Tariff Bonds	
Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Reques	st for Authority to
Implement a General Rate Increase for Electric Service.	·
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri West's	Request for
Authority to Implement a General Rate Increase for Electric Service.	•
The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Company d/b	o/a Liberty to Obtain
a Financing Order that Authorizes the Issuance of Securitized Utility	
Energy Transition Costs Related to the Asbury Plant	
The Empire District Electric Company d/b/a Liberty	EO-2022-0040
In the Matter of the Petition of The Empire District Electric Company d/b	o/a Liberty to Obtain
a Financing Order that Authorizes the Issuance of Securitized Utility	Tariff Bonds for
Qualified Extraordinary Costs	
Ameren Transmission Company of Illinois	EA-2022-0099
In the Matter of the Application of Ameren Transmission Company of Ill	inois for a
Certificate of Convenience and Necessity Under Section 393.170 RS	Mo Relating to
Transmission Investments in Southeast Missouri	C
The Empire District Electric Company d/b/a Liberty	ER-2021-0312
In the Matter of the Request of The Empire District Electric Company d/l	b/a Liberty for
Authority to File Tariffs Increasing Rates for Electric Service Provide	ed to Customers in
its Missouri Service Area	
Union Electric Company d/b/a Ameren Missouri	ER-2021-0240
In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariff	fs to Adjust its
Revenues for Electric Service	

Company	Case No.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission So	
Certificate of Public Convenience and Necessity to Construct, Ins	
Maintain, and Otherwise Control and Manage a 345 kV Transmis	-
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Authori	ty to Implement a
General Rate Increase for Natural Gas Service Provided in the Co Service Areas	ompany's Missouri
Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri West	
Authorizing the Financing of Extraordinary Storm Costs Through	_
Securitized Utility Tariff Bonds	
Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Re	quest for Authority to
Implement a General Rate Increase for Electric Service.	
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri We	est's Request for
Authority to Implement a General Rate Increase for Electric Serv	ice.
The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Company	y d/b/a Liberty to Obtain
a Financing Order that Authorizes the Issuance of Securitized Uti	lity Tariff Bonds for
Energy Transition Costs Related to the Asbury Plant	
The Empire District Electric Company d/b/a Liberty	EO-2022-0040
In the Matter of the Petition of The Empire District Electric Company	•
a Financing Order that Authorizes the Issuance of Securitized Uti	lity Tariff Bonds for
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Ameren Transmission Company of Illinois	EA-2021-0087
In the Matter of the Application of Ameren Transmission Company of	
Certificate of Public Convenience and Necessity to Construct, Install, Own, Operate,	
Maintain, and Otherwise Control and Manage a 138 kV Transmis	ssion Line and associated
facilities in Perry and Cape Girardeau Counties, Missouri	ET 2021 0151
Evergy Affiliates	ET-2021-0151
In the Matter of the Application of Evergy Metro, Inc. d/b/a Evergy N	
Evergy Missouri West, Inc. d/b/a Evergy Missouri West for Appr Electrification Portfolio	toval of a Transportation
Spire Missouri, Inc.	GR-2021-0108
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Authori	•
General Rate Increase for Natural Gas Service Provided in the Co	ompany's Missouri
Service Areas	ET 2021 0002
Union Electric Company d/b/a Ameren Missouri	ET-2021-0082
In the Matter of the Request of Union Electric Company d/b/a Amere	n for Approval of its
Surge Protection Program	

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NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission Sou	ithwest, LLC for a
Certificate of Public Convenience and Necessity to Construct, Ins	
Maintain, and Otherwise Control and Manage a 345 kV Transmis	-
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Authorit	ty to Implement a
General Rate Increase for Natural Gas Service Provided in the Co	mpany's Missouri
Service Areas	•
Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri We	est for a Financing Order
Authorizing the Financing of Extraordinary Storm Costs Through	an Issuance of
Securitized Utility Tariff Bonds	
Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Red	quest for Authority to
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In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri We	1
Authority to Implement a General Rate Increase for Electric Servi	
The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Company	
a Financing Order that Authorizes the Issuance of Securitized Util	lity Tariff Bonds for
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The Empire District Electric Company d/b/a Liberty	EO-2022-0040
In the Matter of the Petition of The Empire District Electric Company	
a Financing Order that Authorizes the Issuance of Securitized Util	lity Tariff Bonds for
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Union Electric Company d/b/a Ameren Missouri	GT-2021-0055
In the Matter of the Request of Union Electric Company d/b/a Amere	n Missouri to
Implement the Delivery Charge Adjustment for the 1st Accumula	tion Period beginning
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The Empire District Electric Company Let be Metter of The Francisc District Electric Company To the Metter of The Francisc District Electric Company	ET-2020-0390
In the Matter of The Empire District Electric Company's Tariffs A	
Transportation Electrification Portfolio for Electric Customers in	its Missouri Service
Area The Empire District Floatric Company	ER-2019-0374
The Empire District Electric Company In the Matter of The Empire District Electric Company's Tariffs to	
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Union Electric Company d/b/a Ameren Missouri	ER-2019-0335
In the Matter of of Union Electric Company d/b/a Ameren Missou	
Its Revenues for Electric Service	in a rainta to Decrease
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Company	Case No.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission S	outhwest, LLC for a
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Maintain, and Otherwise Control and Manage a 345 kV Transm	
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Autho	rity to Implement a
General Rate Increase for Natural Gas Service Provided in the C	Company's Missouri
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri W	Vest for a Financing Order
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Securitized Utility Tariff Bonds	
Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's R	Lequest for Authority to
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The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Compa	
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The Empire District Electric Company d/b/a Liberty	EO-2022-0040
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a Financing Order that Authorizes the Issuance of Securitized U	tility Tariff Bonds for
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KCP&L Greater Missouri Operations Company	ER-2019-0413
In the Matter of KCP&L Greater Missouri Operations Company	y Request for Authority
to Implement Rate Adjustments Required by 4 CSR 240-20.090	
Approved Fuel and Purchased Power Cost Recovery Mechanism	
Union Electric Company d/b/a Ameren Missouri	GR-2019-0077
In the Matter of of Union Electric Company d/b/a Ameren Miss	ouri's Tariffs to Increase
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Union Electric Company d/b/a Ameren Missouri	ET-2019-0149
In the Matter of the Application of Union Electric Company d/b	/a Ameren Missouri
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The Empire District Electric Company In the Matter of The Empire District Electric Company's Paying	ET-2019-0029
In the Matter of The Empire District Electric Company's Revise	a Economic Development
Rider Tariff Sheets The Empire District Electric Company	ED 2019 0266
The Empire District Electric Company In the Matter of a Presenting Under Section 202 127 (SR 564) 4	ER-2018-0366
In the Matter of a Proceeding Under Section 393.137 (SB 564) t	to Adjust the Electric
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Company	Case No.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission So	outhwest, LLC for a
Certificate of Public Convenience and Necessity to Construct, In	
Maintain, and Otherwise Control and Manage a 345 kV Transmi	ssion Line and associated
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Author	ity to Implement a
General Rate Increase for Natural Gas Service Provided in the Co	ompany's Missouri
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri W	est for a Financing Order
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Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Re	equest for Authority to
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In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri W	est's Request for
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The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Compan	y d/b/a Liberty to Obtain
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The Empire District Electric Company d/b/a Liberty	EO-2022-0040
In the Matter of the Petition of The Empire District Electric Compan	
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Union Electric Company d/b/a Ameren Missouri	EA-2018-0202
In the Matter of the Application of Union Electric Company d/b/	
Permission and Approval and a Certificate of Public Convenience	e and Necessity
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Kansas City Power & Light Company	ER-2018-0145
KCP&L Greater Missouri Operations Company	ER-2018-0146
In the Matter of Kansas City Power & Light Company's Rec	quest for Authority to
Implement a General Rate Increase for Electric Service	
Union Electric Company d/b/a Ameren Missouri	ET-2018-0132
In the Matter of the Application of Union Electric Company d/b/s	a Ameren Missouri for
Approval of Efficient Electrification Program	
Union Electric Company d/b/a Ameren Missouri	ET-2018-0063
In the Matter of the Application of Union Electric Company d/b/	a Ameren Missouri for
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In the Matter of the Application of NextEra Energy Transmission So	outhwest, LLC for a
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facilities in Barton and Jasper Counties, Missouri	
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In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Author	rity to Implement a
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri W	Vest for a Financing Order
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Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's R	equest for Authority to
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The Empire District Electric Company d/b/a Liberty	EO-2022-0193
In the Matter of the Petition of The Empire District Electric Compar	ny d/b/a Liberty to Obtain
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The Empire District Electric Company d/b/a Liberty	EO-2022-0040
In the Matter of the Petition of The Empire District Electric Compar	
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Laclede Gas Company d/b/a Missouri Gas Energy	GR-2017-0216
In the Matter of Laclede Gas Company's Request to Increase	
Service, In the Matter of Laclede Gas Company d/b/a Missouri G	Gas Energy's Request to
Increase Its Revenue for Gas Service.	
Kansas City Power & Light Company	ER-2017-0316
In the Matter of Kansas City Power & Light Company's Demand	
Rate Adjustment And True-Up Required by 4 CSR 240-3.163(8)	
Kansas City Power & Light Company	ER-2017-0167
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KCP&L Great Missouri Operations Company	ET-2017-0097
In the Matter of KCP&L Greater Missouri Operations Company's A	Annual RESRAM
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In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Author	rity to Implement a
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri W	est for a Financing Order
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The Empire District Electric Company d/b/a Liberty	EO-2022-0193
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Grain Belt Express Clean Line, LLC	EA-2016-0358
In the Matter of the Application of Grain Belt Express Clean Lin	
of Convenience and Necessity Authorizing It to Construct, O	
Manage, and Maintain a High Voltage, Direct Current Trans	
Associated Converter Station Providing an Interconnection	on the Maywood -
Montgomery 345 kV Transmission Line	
Kansas City Power & Light Company	ER-2016-0325
In the Matter of Kansas City Power & Light Company's Demand	
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 Red	quest for Authority to
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Union Electric Company d/b/a Ameren Missouri	EA-2016-0207
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In the Matter of the Application of NextEra Energy Transmission So	
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Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Author	rity to Implement a
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
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In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Ro	equest for Authority to
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In the Matter of the Petition of The Empire District Electric Compar	
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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	
KCP&L Great Missouri Operations Company	ER-2016-0156
In the Matter of KCP&L Greater Missouri Operations Company's	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 Rec	quest 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 Compa	
Relief or, in the Alternative, a Certificate of Public Conve	
Authorizing it to Construct, Install, Own, Operate, Maintain and	
Manage a 345,000-volt Electric Transmission Line from Palmyra	a, Missouri to the Iowa
Border and an Associated Substation Near Kirksville, Missouri	

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<u>Company</u>	Cust 110.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transı	mission Southwest, LLC for a
Certificate of Public Convenience and Necessity to Co	onstruct, Install, Own, Operate,
Maintain, and Otherwise Control and Manage a 345 k	V Transmission Line and associated
facilities in Barton and Jasper Counties, Missouri	
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In the Matter of Spire Missouri Inc.'s d/b/a Spire Request	• •
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
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Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
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Ameren Transmission Company of Illinois	EA-2015-0145
In the Matter of the Application of Ameren Transmissi	
Relief or, in the Alternative, a Certificate of Pub.	- ·
Authorizing it to Construct, Install, Own, Operate, Mai	•
Manage a 345,000-volt Electric Transmission Line in	
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	<u> </u>
by MEEIA	,
Kansas City Power & Light Company	ER-2014-0370
In the Matter of Kansas City Power & Light Comp	pany's Request for Authority to
Implement a General Rate Increase for Electric Service	
Empire District Electric Company	ER-2014-0351
In the Matter of The Empire District Electric Compa	any for Authority to File Tariffs
Increasing Rates for Electric Service Provided to Custo	omers in the Company's Missouri
Service Area	

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Spire Missouri, Inc. In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Author General Rate Increase for Natural Gas Service Provided in the Co Service Areas	• •
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Evergy Metro, Inc. dba Evergy Missouri Metro Evergy Missouri West, Inc. dba Evergy Missouri West In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Re Implement a General Rate Increase for Electric Service. In the Matter of Evergy Missouri West, Inc. dba Evergy Miss	est's Request for
Authority to Implement a General Rate Increase for Electric Serv The Empire District Electric Company d/b/a Liberty In the Matter of the Petition of The Empire District Electric Compan a Financing Order that Authorizes the Issuance of Securitized Ut Energy Transition Costs Related to the Asbury Plant	EO-2022-0193 y d/b/a Liberty to Obtain
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Union Electric Company d/b/a Ameren Missouri City of O'Fallon, Missouri, and City of Ballwin, Missouri, C Electric Company d/b/a Ameren Missouri, Respondent	EC-2014-0316 complainants v. Union
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Union Electric Company d/b/a Ameren Missouri Noranda Aluminum, Inc., et al., Complainants, v. Union Electric C Missouri, Respondent	EC-2014-0224 Company d/b/a Ameren
Grain Belt Express Clean Line, LLC In the Matter of the Application of Grain Belt Express Clean Line of Convenience and Necessity Authorizing It to Construct, Or Manage, and Maintain a High Voltage, Direct Current Trans Associated Converter Station Providing an Interconnection Montgomery 345 kV Transmission Line	wn, Operate, Control, smission Line and an

Company	Case No.
NextEra Energy Transmission Southwest, LLC	EA-2022-0234
In the Matter of the Application of NextEra Energy Transmission So	
Certificate of Public Convenience and Necessity to Construct, Ins	stall, Own, Operate,
Maintain, and Otherwise Control and Manage a 345 kV Transmis	ssion Line and associated
facilities in Barton and Jasper Counties, Missouri	
Spire Missouri, Inc.	GR-2022-0179
In the Matter of Spire Missouri Inc.'s d/b/a Spire Request for Authori	ity to Implement a
General Rate Increase for Natural Gas Service Provided in the Co	ompany's Missouri
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Evergy Missouri West, Inc. dba Evergy Missouri West	EF-2022-0155
In the Matter of Evergy Missouri West, Inc. dba Evergy Missouri We	est for a Financing Order
Authorizing the Financing of Extraordinary Storm Costs Through	n an Issuance of
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Evergy Metro, Inc. dba Evergy Missouri Metro	ER-2022-0129
Evergy Missouri West, Inc. dba Evergy Missouri West	ER-2022-0130
In the Matter of Evergy Metro, Inc. dba Evergy Missouri Metro's Re	equest for Authority to
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KCP&L Great Missouri Operations Company	EO-2014-0151
In the Matter of KCP&L Greater Missouri Operations Compa	
Authority to Establish a Renewable Energy Standard Rate Adjust	
Kansas City Power & Light Company	EO-2014-0095
In the Matter of Kansas City Power & Light Company's Filing for	= =
Side Programs and for Authority to Establish A Demand-Side Mechanism	Programs investment
	UD 2014 0066
Veolia Energy Kansas City, Inc.	HR-2014-0066
In the Matter of Veolia Energy Kansas City, Inc. for Authority to l	rne Tarms to Increase
Rates	

Krishna L. Poudel, PhD

Education and Employment Background

I am an Economist of the Energy Resources Department, Industry Analysis Division of the Missouri Public Service Commission. Prior to my current position, I was employed at the Missouri Department of Natural Resources as an Economist from September 2016 through May 2019.

I received Bachelor of Science degree in Agriculture in June 1998, Master of Science in Agricultural in May 2003 from Tribhuvan University, Nepal and Doctoral degree in Applied Economics from University of Missouri, Columbia in 2017.

Prior to joining the Missouri Department of Natural Resources and Public Service

Commission, I worked in various research positions in different countries including Nepal,

SriLanka, Japan and USA. I worked for University of Missouri-Columbia as a Research

Associate in Community Policy Analysis Center from August 2011 through December 2016.

I joined Commission on May, 2019.

Krishna L. Poudel

Case Participation History

Case Number	Company	Issue	Exhibit
EO-2021-0021	Union Electric Company	IRP Update	Staff Report
ER-2019-0374	The Empire District Electric Company	LED street lighting	Rebuttal
			Testimony
EO-2020-0280	Evergy Metro	IRP Update	Staff Report
EO-2020-0281	Evergy Missouri West	IRP Update	Staff Report
ER-2020-0311	The Empire District Electric Company	Fuel Adjustment Clause	Staff report
EO-2020-0227	Evergy Metro and Evergy Missouri West	MEEIA Prudence Review	Staff Report
EO-2021-0021	Union Elecetric Company	Triennial compliance filing	Staff Report
EO-2021-0035	Evergy Metro	Triennial compliance filing	Staff report
EO-2021-0036	Evergy Missouri West	Triennial compliance filing	Staff Report
EO-2021-0416	Evergy Missouri West	MEEIA prudence review	Staff Report
EO-2021-0417	Evergy Metro	MEEIA prudence review	Staff Report
YH-2022-0218	Vicinity Energy	Hedging	Staff Report
HT-2022-0212	Vicinity Energy	Hedging and Production	Staff Report
		Adjustment Cost Clause	
ER-2022-0129	Evergy MO Metro	Hedging	Rebuttal Testimony
ER-2022-0130	Evergy MO West	Hedging	Rebuttal Testimony
EO-2021-0331	The Empire District Electric Company	Triennial compliance filing	Staff Report

Joe Roling

Present Position:

I am a Regulatory Economist in the Tariff and Rate Design Unit, Operational Analysis Department, Commission Staff Division, of the Missouri Public Service Commission. I have been employed by the Missouri Public Service Commission since March of 2016.

Educational Background and Work Experience:

I have a Bachelor of Science degree in Business Administration, Finance & Banking with a minor in Economics from the University of Missouri – Columbia in 1991, and a Master of Business Administration from Lincoln University in 1995. Prior to joining the Commission, I was employed in the Financial Service Industry.

Additionally, I completed Financial Planning Certificate Program from Bryant University in October, 2015.

Regulatory Training while at PSC:

5/19/16 – Carbon Markets 101 – Keys to Effective Design & Management

6/27/16 – Evaluation, Measurement & Verification (EM&V) for Energy Efficiency

6/29/16 – Long Term Gas Hedging Why and How

7/2/16 – Setting Baselines for Planning & Evaluation of Efficiency Programs EMV

8/25/16 - Leveraging Power Markets to Achieve a Reliable, Least-Cost Transition to a Low-Carbon Power System Regulatory Assistance Project

9/21/16 – FRI Symposium Attendance - "Managing the Triple Threat to Public Utility Profitability: Safety, Reliability & Affordability."

10/13/16 - Gas Efficiency Programs – What does it take to pass cost-effectiveness tests?

11/3/16 - More is Less - Environmentally Beneficial Electrification

cont'd Regulatory Training while at PSC:

- 01-17-17 Harness the Momentum of Power Sector Transformation Regulatory Assistance Project (RAP) Webinar
- 01-25-17 New Study on Demand Charge Savings from Residential Solar Electric Markets & Policy Group, Lawrence Berkeley National Laboratory.
- 01-31-17 Energy Efficiency Consistency and Coordination of Energy Efficiency EM&V and Reporting
- 02-21-17 Assessment of Benefits Derived from Improved Peliability & Resiliency in Utility-owned Microgrid
- 03-01-17 Flexible & Customizable Designing Decoupling for your State Regulatory Assistance Project
- 03-23-17 Part 1 Lessons Learned from Energy Efficiency Programs
- 03-30-17 Part 2 Lessons Learned from Energy Efficiency Programs
- 11-17-17 MISO 101 Overview for MPSC
- 02-06-18 One Size Does Not Fit All Complexities, Use Case, Trends in Energy Storage
- 02-13-18 Clean Enegy States Alliance-State of the US Engery Storage Industry 2017 Uear om Review
- 05-02-18 Income Trends of Residential Solar Adopters

Previous filed Testimony of Joseph P. Roling

Case No.	Company	Type of Filing	Issue
ER-2019-0375	Kansas City Power & Light Company	Staff Recommendation	MEEIA
ER-2019-0397	KCPL Greater Missouri Operations Company	Staff Recommendation	MEEIA
GR-2019-0077	Ameren Missouri	Cost of Service Report	Revenues
EC-2018-0066	Ameren Missouri	Tariff Investigation Report	Customer Complaint
EC-2018-0097	Ameren Missouri	Tariff Investigation Report	Customer Complaint
GR-2018-0013	Liberty Utilities	Cost of Service Report	Revenues
GR-2021-0108	Spire Missouri, Inc., d/b/a Spire	Cost of Service Report	Revenues
GC-2017-0348	Spire Missouri, Inc., d/b/a Spire (Laclede Gas Company and Missouri Gas Energy)	Tariff Investigation Report	Customer Complaint
GR-2017-0215 and GR-2017-0216	Spire Missouri, Inc., d/b/a Spire (Laclede Gas Company and Missouri Gas Energy)	Cost of Service Report	Revenues
ER-2016-0179	Ameren Missouri	Cost of Service / Revenue	Revenues

Case No.	Company	Type of Filing	Issue
		Requirement Report	
HO-2017-0211	Veolia Energy Kansas City, Inc(Steam/Heat)	Staff Recommendation	PACC Filing
ER-2019-0335	Ameren Missouri	Lighting Revenue	Revenues
ER-2019-0374	Liberty (Empire)- Investor(Electric)	Low Income Pilot Information	Revenues
ER-2021-0240	Ameren Missouri	Large Primary Service Revenue	Revenues
GA-2019-0210	Spire Missouri, Inc Investor(Gas) Spire-Investor(Gas)	Staff Recommendation	CCN Expansion
GA-2019-0214	Spire Missouri, Inc Investor(Gas) Spire-Investor(Gas)	Staff Recommendation	CCN Expansion
ER-2020-0154	Evergy Metro, Inc Investor(Electric) Evergy Missouri Metro- Investor(Electric)	Staff Recommendation	MEEIA
ER-2020-0388	Evergy Metro, Inc Investor(Electric) Evergy Missouri Metro- Investor(Electric)	Staff Recommendation	MEEIA
ET-2020-0133	Evergy Metro, Inc Investor(Electric) Evergy Missouri Metro- Investor(Electric) Evergy Missouri West, IncInvestor(Electric) Evergy Missouri West- Investor(Electric)	Staff Recommendation	Request for a variance from the Commission's billing and payment standards

Case No.	Company	Type of Filing	Issue
GA-2020-0235	Spire Missouri, Inc Investor(Gas) Spire-Investor(Gas)	Staff Recommendation	CCN Expansion
GO-2020-0182	Spire Missouri, Inc Investor(Gas) Spire-Investor(Gas)	Staff Investigation	Investigation into the Customer Service and Billing Recordkeeping Practices of Spire Missouri, Inc. d/b/a Spire
GA-2021-0010	Spire Missouri, Inc Investor(Gas) Spire-Investor(Gas)	Staff Recommendation	CCN Expansion
GO-2021-0126	Spire Missouri, Inc Investor(Gas)	Staff Recommendation	Rejection of Spire Missouri Inc.'s Application to Establish an On-Bill Financing Program and Cost Recovery Mechanism
ET-2021-0020	Ameren Missouri	Staff Recommendation	Efficient Electrification Program
ER-2021-0312	Empire District Electric Company, The- Investor(Electric) Liberty (Empire)- Investor(Electric)	Cost of Service Report	Revenues

Credentials and Background of

Seoung Joun Won, PhD

I am currently employed as a Regulatory Compliance Manager in the Financial Analysis Department of the Financial and Business Analysis Division of the Missouri Public Service Commission. I have been employed at the Missouri Public Service Commission since May 2010.

I received my Bachelor of Arts, Master of Arts, and Doctor of Philosophy in Mathematics from Yonsei University and my Bachelor of Business Administration in Financial Accounting from Seoul Digital University in Seoul, South Korea, and earned my Doctor of Philosophy in Economics from the University of Missouri - Columbia. Also, I passed several certificate examinations for Finance Specialist in South Korea such as Accounting Management, Financial Risk Manager, Enterprise Resource Planning Accounting Consultant, Derivatives Investment Advisor, Securities Investment Advisor, and Financial Planner.

Prior to joining the Commission, I taught both undergraduate and graduate level mathematics at the Korean Air Force Academy and Yonsei University for 13 years. I served as the director of the Education and Technology Research Center in NeoEdu for 5 years. Before starting my current position at the Missouri Public Service Commission, I had served as a regulatory economist in Tariff/Rate Design Department.

My current duties at the Commission include financial analysis of rate of return and cost of equity, valuation analysis on merger and acquisition, due diligence review and supporting economic and statistical analysis.

List of Previous Testimony Filed Seoung Joun Won, PhD

Case Number	Company	<u>Issue</u>
ER-2022-0130	Evergy Missouri West, Inc.	Rate of Return, Capital Structure
ER-2022-0129	Evergy Missouri Metro	Rate of Return, Capital Structure
GR-2021-0320	Empire District Gas Company	Rate of Return, Capital Structure
GF-2022- 0169	Spire Missouri, Inc.	Financing Authority
EF-2022-0164	Union Electric Co., d/b/a Ameren Missouri	Financing Authority
WF-2022-0161	Missouri-American Water Company	Financing Authority
EF-2022- 0103	Evergy Missouri West, Inc.	Financing Authority
WF-2021-0427	Raytown Water Company	Financing Authority
ER-2021-0312	Empire District Electric Company	Rate of Return, Capital Structure
WF-2022-0066	Missouri American Water Company	Financing Authority
GR-2021-0241	Union Electric Co., d/b/a Ameren Missouri	Rate of Return, Capital Structure
WF-2021-0131	Raytown Water Company	Financing Authority
GR-2021-0108	Spire Missouri, Inc.	Rate of Return, Capital Structure
EA-2021-0087	Ameren Transmission Company of Illinois	Financial Feasibility
EA-2020-0371	Union Electric Co., d/b/a Ameren Missouri	Financial Feasibility
SR-2020-0345	Missouri American Water Company	Rate of Return, Capital Structure

cont'd List of Previous Testimony Filed

Seoung Joun Won, PhD

Case Number	Company	<u>Issue</u>
WR-2020-0344	Missouri American Water Company	Rate of Return, Capital Structure
EF-2020-0301	Evergy Missouri Metro	Financing Authority
WR-2020-0264	Raytown Water Company	Rate of Return, Capital Structure
WR-2020-0053	Confluence Rivers Utility Operating Company, Inc.	Rate of Return, Capital Structure
HM-2020-0039	Veolia Energy Kansas City, Inc. AIP Project Franklin Bidco	Merger and Acquisition
EO-2019-0133	KCP&L Greater Missouri Operations Company, Evergy Metro	Business Process Efficiency
EO-2019-0132	Kansas City Power & Light Company, Evergy Metro	Business Process Efficiency
GO-2019-0059	Spire West, Spire Missouri, Inc.	Weather Variables
GO-2019-0058	Spire East., Spire Missouri, Inc.	Weather Variables
ER-2018-0146	KCP&L Greater Missouri Operations Co.	Weather & Normalization, Net System Input
ER-2018-0145	Kansas City Power & Light Co.	Weather & Normalization, Net System Input
GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp.	Weather Variables
GR-2017-0216	Missouri Gas Energy (Laclede), Spire Missouri, Inc.	Weather Variables
GR-2017-0215	Laclede Gas Co., Spire Missouri, Inc.	Weather Variables
ER-2016-0285	Kansas City Power & Light Co.	Weather & Normalization, Net System Input
ER-2016-0179	Union Electric Co., d/b/a Ameren Missouri	Weather & Normalization, Net System Input
ER-2016-0156	KCP&L Greater Missouri Operations Co.	Weather & Normalization, Net System Input

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Case Number	Company	<u>Issue</u>
ER-2016-0023	Empire District Electric Company	Weather & Normalization, Net System Input
ER-2014-0370	Kansas City Power & Light Co	Weather & Normalization, Net System Input
ER-2014-0351	Empire District Electric Company	Weather & Normalization, Net System Input
ER-2014-0258	Union Electric Co., d/b/a Ameren Missouri	Weather & Normalization, Net System Input
EC-2014-0223	Noranda Aluminum, Inc., et al, Complaint v. Union Electric Co., d/b/a Ameren Missouri	Weather Variables
GR-2014-0152	Liberty Utilities (Midstates Natural Gas) Corp.	Weather Variables
GR-2014-0086	Summit Natural Gas of Missouri, Inc.	Weather Variables
HR-2014-0066	Veolia Energy Kansas City, Inc.	Weather Variables, Revenue
GR-2013-0171	Laclede Gas Co.	Weather Variables
ER-2012-0345	Empire District Electric Company	Weather Variables, Revenue
ER-2012-0175	KCP&L Greater Missouri Operations Co.	Weather Variables
ER-2012-0174	Kansas City Power & Light Co.	Weather Variables
ER-2012-0166	Union Electric Co., d/b/a Ameren Missouri	Weather Variables, Revenue
HR-2011-0241	Veolia Energy Kansas City, Inc.	Weather Variables
ER-2011-0028	Union Electric Co., d/b/a Ameren Missouri	Weather Variables, Revenue
ER-2011-0004	Empire District Electric Company	Weather Variables, Revenue
GR-2010-0363	Union Electric Co., d/b/a Ameren Missouri	Weather Variables

cont'd List of Previous Testimony Filed

Seoung Joun Won, PhD

Case Number	<u>Company</u>	<u>Issue</u>
ER-2010-0356	KCP&L Greater Missouri Operations Co.	Weather Variables
ER-2010-0355	Kansas City Power & Light Co.	Weather Variables, Revenue

Work Related Publication

Won, Seoung Joun, X. Henry Wang, and Henry E. Warren. "Climate normals and weather normalization for utility regulation." *Energy Economics* (2016).