

Exhibit No.:
Issues: Money Pool
Witness: David Murray
Sponsoring Party: MoPSC Staff
Type of Exhibit: Testimony
Case No.: AO-2018-0179
Date Testimony Prepared: January 24, 2019

MISSOURI PUBLIC SERVICE COMMISSION

COMMISSION STAFF DIVISION

FINANCIAL ANALYSIS DEPARTMENT

**DIRECT TESTIMONY IN SUPPORT OF
NONUNANIMOUS STIPULATION AND AGREEMENT**

OF

DAVID MURRAY, CFA

**THE EMPIRE DISTRICT ELECTRIC COMPANY,
THE EMPIRE DISTRICT GAS COMPANY, LIBERTY UTILITIES
(MIDSTATES NATURAL GAS) CORP., AND LIBERTY UTILITIES
(MISSOURI WATER) LLC**

CASE NO. AO-2018-0179

*Jefferson City, Missouri
January 2019*

**** Denotes Confidential Information ****

1 **DIRECT TESTIMONY IN SUPPORT OF**
2 **NONUNANIMOUS STIPULATION AND AGREEMENT**

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5 **DAVID MURRAY, CFA**

6 **THE EMPIRE DISTRICT ELECTRIC COMPANY,**
7 **THE EMPIRE DISTRICT GAS COMPANY, LIBERTY UTILITIES**
8 **(MIDSTATES NATURAL GAS) CORP., AND LIBERTY UTILITIES**
9 **(MISSOURI WATER) LLC**

10 **CASE NO. AO-2018-0179**
11

12 Q. Please state your name.

13 A. My name is David Murray.

14 Q. What is the purpose of your testimony?

15 A. I am providing testimony to support the recommendation to not require
16 competitive bidding if none of the Applicant Utilities¹ are charged a rate any higher than

17 ** _____

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¹ The Applicant Utilities are The Empire District Electric Company, The Empire District Gas Company, Liberty Utilities (Midstates Natural Gas) Corp., and Liberty Utilities (Missouri Water) LLC.

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David Murray
Direct Testimony in Support of
Nonunanimous Stipulation and Agreement

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David Murray
Direct Testimony in Support of
Nonunanimous Stipulation and Agreement

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CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
12/21/2018	EA-2019-0021	Union Electric Company d/b/a Ameren Missouri	Rebuttal Report	Financial Ability
12/11/2018	EA-2016-0358	Grain Belt Express Clean Line, LLC	Rebuttal Report	Financial Ability
9/28/2018	EA-2018-0202	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Financial Ability
8/7/2018	WR-2018-0170	Liberty Utilities (Missouri Water), LLC d/b/a Liberty Utilities	Surrebuttal	Rate of Return Capital Structure
8/3/2018	WR-2018-0170	Liberty Utilities (Missouri Water), LLC d/b/a Liberty Utilities	Rebuttal	Rate of Return Capital Structure
5/9/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Surrebuttal	Rate of Return Capital Structure
4/13/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Rebuttal	Rate of Return Capital Structure
3/2/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Cost of Service Report	Rate of Return Capital Structure
11/21/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Surrebuttal	Rate of Return Capital Structure
10/17/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Rebuttal	Rate of Return Capital Structure
9/8/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Cost of Service Report	Rate of Return Capital Structure
1/27/2017	ER-2016-0285	Kansas City Power & Light Company	Surrebuttal	Capital Structure
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

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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
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

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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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

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Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
01/31/2001	TC-2001-402	Ozark Telephone Company	Direct	Rate of Return Capital Structure

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.

In April 2007 I passed the test required to be awarded the professional designation Certified Rate of Return Analyst (CRRA) by the Society of Utility and Regulatory Financial Analysts (SURFA). I served as a board member on the SURFA Board of Directors from 2008 through 2016. I am not currently an active member of SURFA.

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12/21/2018	EA-2019-0021	Union Electric Company d/b/a Ameren Missouri	Rebuttal Report	Financial Ability
12/11/2018	EA-2016-0358	Grain Belt Express Clean Line, LLC	Rebuttal Report	Financial Ability
9/28/2018	EA-2018-0202	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Financial Ability
8/7/2018	WR-2018-0170	Liberty Utilities (Missouri Water), LLC d/b/a Liberty Utilities	Surrebuttal	Rate of Return Capital Structure
8/3/2018	WR-2018-0170	Liberty Utilities (Missouri Water), LLC d/b/a Liberty Utilities	Rebuttal	Rate of Return Capital Structure
5/9/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Surrebuttal	Rate of Return Capital Structure
4/13/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Rebuttal	Rate of Return Capital Structure
3/2/2018	GR-2018-0013	Liberty Utilities (Midstates Natural Gas) Corp., d/b/a Liberty Utilities	Cost of Service Report	Rate of Return Capital Structure
11/21/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Surrebuttal	Rate of Return Capital Structure
10/17/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Rebuttal	Rate of Return Capital Structure
9/8/2017	GR-2017-0215 & GR-2017-0216	Spire Missouri Inc. (LAC and MGE Divisions)	Cost of Service Report	Rate of Return Capital Structure
1/27/2017	ER-2016-0285	Kansas City Power & Light Company	Surrebuttal	Capital Structure
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

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12/23/2015	WR-2015-0301	Missouri-American Water Company	Cost of Service Report	Rate of Return Capital Structure
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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
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

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9/7/2012	ER-2012-0166	Union Electric Company d/b/a Ameren Missouri	Surrebuttal	Rate of Return Capital Structure
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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
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

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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
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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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

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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
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

CASE PROCEEDING PARTICIPATION**DAVID MURRAY**

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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
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

CASE PROCEEDING PARTICIPATION

DAVID MURRAY

Date Filed	Case Number	Company Name	Testimony Type	Issue(s)
01/31/2001	TC-2001-402	Ozark Telephone Company	Direct	Rate of Return Capital Structure

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.

In April 2007 I passed the test required to be awarded the professional designation Certified Rate of Return Analyst (CRRA) by the Society of Utility and Regulatory Financial Analysts (SURFA). I served as a board member on the SURFA Board of Directors from 2008 through 2016. I am not currently an active member of SURFA.