MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT

REVENUE REQUIREMENT COST OF SERVICE

APPENDIX 2

Support for Staff
Cost of
Capital Recommendations

KCP&L GREATER MISSOURI OPERATIONS COMPANY

CASE NO. ER-2016-0156

Jefferson City, Missouri July 2016

AN ANALYSIS OF THE COST OF CAPITAL

FOR

KCP&L GREATER MISSOURI OPERATIONS Great Plains Energy, Inc.

CASE NO. ER-2016-0156

SCHEDULES

BY

DAVID MURRAY

COMMISSION STAFF DIVISION - OPERATIONAL ANALYSIS

FINANCIAL ANALYSIS UNIT

MISSOURI PUBLIC SERVICE COMMISSION

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10	1300 minorated 1 moneta rate of retain as of December 51, 2015 for Rel all ofeator missouri Operations

Federal Reserve Discount Rate and Federal Reserve Funds Rate Changes

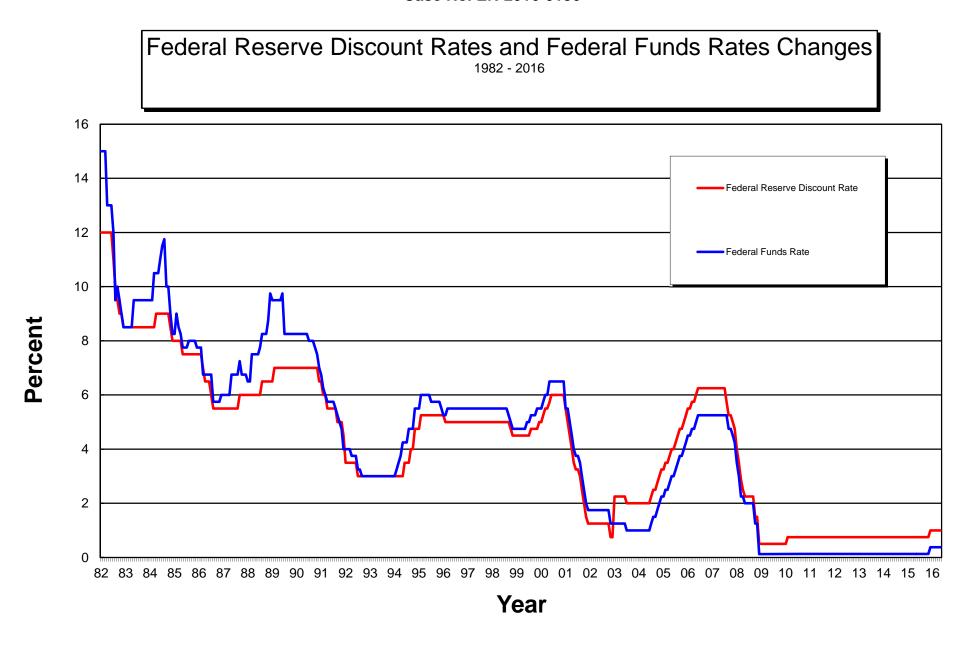
_	Federal Reserve	Federal Reserve	_	Federal Reserve	Federal Reserve
Date	Discount Rate	Funds Rate	Date	Discount Rate	Funds Rate
01/01/83	8.50%		06/30/99	4.50%	5.00%
12/31/83	8.50%		08/24/99	4.75%	5.25%
04/09/84	9.00%		11/16/99	5.00%	5.50%
11/21/84	8.50%		02/02/00	5.25%	5.75%
12/24/84	8.00%		03/21/00	5.50%	6.00%
05/20/85	7.50%		05/19/00	6.00%	6.50%
03/07/86	7.00%		01/03/01	5.75%	6.00%
04/21/86	6.50%		01/04/01	5.50%	6.00%
07/11/86	6.00%		01/31/01	5.00%	5.50%
08/21/86	5.50%		03/20/01	4.50%	5.00%
09/04/87	6.00%		04/18/01	4.00%	4.50%
08/09/88	6.50%		05/15/01	3.50%	4.00%
02/24/89	7.00%		06/27/01	3.25%	3.75%
07/13/90		8.00% *	08/21/01	3.00%	3.50%
10/29/90		7.75%	09/17/01	2.50%	3.00%
11/13/90		7.50%	10/02/01	2.00%	2.50%
12/07/90		7.25%	11/06/01	1.50%	2.00%
12/18/90		7.00%	12/11/01	1.25%	1.75%
12/19/90	6.50%	7.0070	11/06/02	0.75%	1.25%
01/09/91	0.0070	6.75%	01/09/03	2.25%**	1.25%
02/01/91	6.00%	6.25%	06/25/03	2.00%	1.00%
03/08/91	0.0070	6.00%	06/30/04	2.25%	1.25%
04/30/91	5.50%	5.75%	08/10/04	2.50%	1.50%
08/06/91	3.30 /6	5.50%	09/21/04	2.75%	1.75%
	E 000/				
09/13/91	5.00%	5.25%	11/10/04	3.00%	2.00%
10/31/91	4.500/	5.00%	12/14/04	3.25%	2.25%
11/06/91	4.50%	4.75%	02/02/05	3.50%	2.50%
12/06/91	0.500/	4.50%	03/22/05	3.75%	2.75%
12/20/91	3.50%	4.00%	05/03/05	4.00%	3.00%
04/09/92		3.75%	06/30/05	4.25%	3.25%
07/02/92	3.00%	3.25%	08/09/05	4.50%	3.50%
09/04/92		3.00%	09/20/05	4.75%	3.75%
01/01/93			11/01/05	5.00%	4.00%
12/31/93	No Changes	No Changes	12/13/05	5.25%	4.25%
02/04/94		3.25%	01/31/06	5.50%	4.50%
03/22/94		3.50%	03/28/06	5.75%	4.75%
04/18/94		3.75%	05/10/06	6.00%	5.00%
05/17/94	3.50%	4.25%	06/29/06	6.25%	5.25%
08/16/94	4.00%	4.75%	08/17/07	5.75%	5.25%
11/15/94	4.75%	5.50%	09/18/07	5.25%	4.75%
02/01/95	5.25%	6.00%	10/31/07	5.00%	4.50%
07/06/95		5.75%	12/11/07	4.75%	4.25%
12/19/95		5.50%	01/22/08	4.00%	3.50%
01/31/96	5.00%	5.25%	01/30/08	3.50%	3.00%
03/25/97		5.50%	03/16/08	3.25%	
12/12/97	5.00%		03/18/08	2.50%	2.25%
01/09/98	5.00%		04/30/08	2.25%	2.00%
03/06/98	5.00%		10/08/08	1.75%	1.50%
09/29/98	0.0070	5.25%	10/29/08	1.25%	1.00%
			10/20/00	1.20/0	1.0070
	4 75%		12/16/08	0.50%	0% - 25%
10/15/98 11/17/98	4.75% 4.50%	5.00% 4.75%	12/16/08 02/19/10	0.50% 0.75%	0%25%

^{*} Staff began tracking the Federal Funds Rate.

Source: http://www.federalreserve.gov

Note: Interest rates as of December 31 for each year are underlined.

^{**}Revised discount window program begins. Reflects rate on primary credit. This revised discount window policy results in incomparability of the discount rates after January 9, 2003 to discount rates before January 9, 2003.



Rate of Inflation

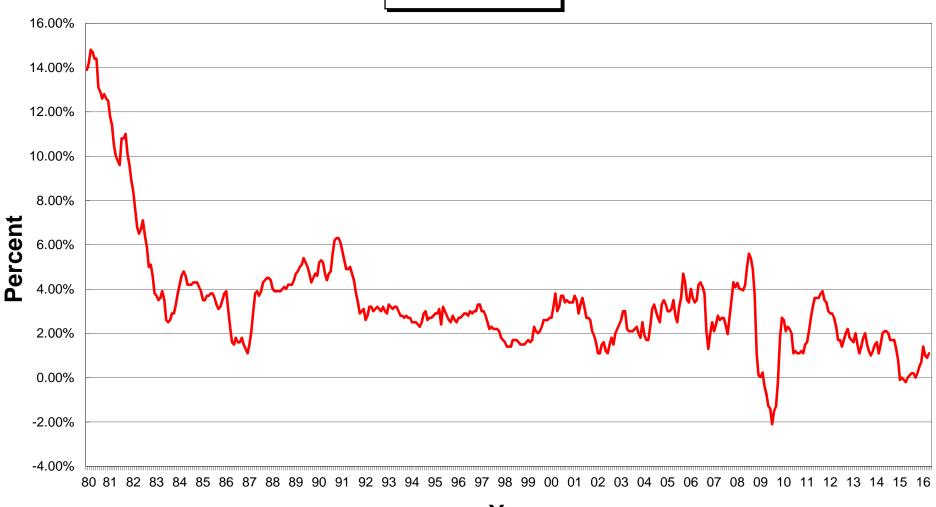
Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)										
Jan 1980	13.90	Jan 1984	4.20	Jan 1988	4.00	Jan 1992	2.60	Jan 1996	2.70	Jan 2000	2.70	Jan 2004	1.90	Jan 2008	4.30	Jan 2012	2.90	Jan 2016	1.40
Feb	14.20	Feb	4.60	Feb	3.90	Feb	2.80	Feb	2.70	Feb	3.20	Feb	1.70	Feb	4.00	Feb	2.90	Feb	1.00
Mar	14.80	Mar	4.80	Mar	3.90	Mar	3.20	Mar	2.80	Mar	3.70	Mar	1.70	Mar	4.00	Mar	2.70	Mar	0.90
Apr	14.70	Apr	4.60	Apr	3.90	Apr	3.20	Apr	2.90	Apr	3.00	Apr	2.30	Apr	3.90	Apr	2.30	Apr	1.10
May	14.40	May	4.20	May	3.90	May	3.00	May	2.90	May	3.20	May	3.10	May	4.20	May	1.70		
Jun	14.40	Jun	4.20	Jun	4.00	Jun	3.10	Jun	2.80	Jun	3.70	Jun	3.30	Jun	5.00	Jun	1.70		
Jul	13.10	Jul	4.20	Jul	4.10	Jul	3.20	Jul	3.00	Jul	3.70	Jul	3.00	Jul	5.60	Jul	1.40		
Aug	12.90	Aug	4.30	Aug	4.00	Aug	3.10	Aug	2.90	Aug	3.40	Aug	2.70	Aug	5.40	Aug	1.70		
Sep	12.60	Sep	4.30	Sep	4.20	Sep	3.00	Sep	3.00	Sep	3.50	Sep	2.50	Sep	4.90	Sep	2.00		
Oct	12.80	Oct	4.30	Oct	4.20	Oct	3.20	Oct	3.00	Oct	3.40	Oct	3.30	Oct	3.70	Oct	2.20		
					4.20		3.00		3.30	Nov		Nov	3.50	Nov	1.10		1.80		
Nov	12.60	Nov	4.10	Nov		Nov		Nov			3.40					Nov			
Dec	12.50	Dec	3.90	Dec	4.40	Dec	2.90	Dec	3.30	Dec	3.40	Dec	3.30	Dec	0.10	Dec	1.70		
Jan 1981	11.80	Jan 1985	3.50	Jan 1989	4.70	Jan 1993	3.30	Jan 1997	3.00	Jan 2001	3.70	Jan 2005	3.00	Jan 2009	0.00	Jan 2013	1.60		
Feb	11.40	Feb	3.50	Feb	4.80	Feb	3.20	Feb	3.00	Feb	3.50	Feb	3.00	Feb	0.20	Feb	2.00		
Mar	10.50	Mar	3.70	Mar	5.00	Mar	3.10	Mar	2.80	Mar	2.90	Mar	3.10	Mar	-0.40	Mar	1.50		
Apr	10.00	Apr	3.70	Apr	5.10	Apr	3.20	Apr	2.50	Apr	3.30	Apr	3.50	Apr	-0.70	Apr	1.10		
May	9.80	May	3.80	May	5.40	May	3.20	May	2.20	May	3.60	May	2.80	May	-1.28	May	1.40		
Jun	9.60	Jun	3.80	Jun	5.20	Jun	3.00	Jun	2.30	Jun	3.20	Jun	2.50	Jun	-1.40	Jun	1.80		
Jul	10.80	Jul	3.60	Jul	5.00	Jul	2.80	Jul	2.20	Jul	2.70	Jul	3.20	Jul	-2.10	Jul	2.00		
Aug	10.80	Aug	3.30	Aug	4.70	Aug	2.80	Aug	2.20	Aug	2.70	Aug	3.60	Aug	-1.50	Aug	1.50		
Sep	11.00	Sep	3.10	Sep	4.30	Sep	2.70	Sep	2.20	Sep	2.60	Sep	4.70	Sep	-1.30	Sep	1.20		
Oct	10.10	Oct	3.20	Oct	4.50	Oct	2.80	Oct	2.10	Oct	2.10	Oct	4.30	Oct	-0.20	Oct	1.00		
Nov	9.60	Nov	3.50	Nov	4.70	Nov	2.70	Nov	1.80	Nov	1.90	Nov	3.50	Nov	1.80	Nov	1.20		
Dec	8.90	Dec	3.80	Dec	4.60	Dec	2.70	Dec	1.70	Dec	1.60	Dec	3.40	Dec	2.70	Dec	1.50		
Jan 1982	8.40	Jan 1986	3.90	Jan 1990	5.20	Jan 1994	2.50	Jan 1998	1.60	Jan 2002	1.10	Jan 2006	4.00	Jan 2010	2.60	Jan 2014	1.60		
Feb	7.60	Feb	3.10	Feb	5.30	Feb	2.50	Feb	1.40	Feb	1.10	Feb	3.60	Feb	2.10	Feb	1.10		
Mar	6.80	Mar	2.30	Mar	5.20 4.70	Mar	2.50	Mar	1.40	Mar	1.50 1.60	Mar	3.40 3.50	Mar	2.30 2.20	Mar	1.50 2.00		
Apr	6.50 6.70	Apr May	1.60	Apr May	4.40	Apr May	2.40	Apr	1.40 1.70	Apr May	1.00	Apr	4.20	April	2.20	Apr May	2.10		
May		•	1.50		4.70	Jun	2.30	May Jun		Jun	1.10	May June		May	1.10	Jun	2.10		
Jun	7.10 6.40	Jun Jul	1.80 1.60	Jun Jul	4.80	Jul	2.50 2.90	Jul	1.70 1.70	Jul	1.50	July	4.30 4.10	Jun	1.10	Jul	2.00		
Jul	5.90	Aug	1.60	Aug	5.60	Aug	3.00	Aug	1.60	Aug	1.80	Aug	3.80	Jul Aug	1.10	Aug	1.70		
Aug Sep	5.00	Sep	1.80	Sep	6.20	Sep	2.60	Sep	1.50	Sep	1.50	Sep	2.10	Sep	1.10	Sep	1.70		
Oct	5.10	Oct	1.50	Oct	6.30	Oct	2.70	Oct	1.50	Oct	2.00	Oct	1.30	Oct	1.10	Oct	1.70		
Nov	4.60	Nov	1.30	Nov	6.30	Nov	2.70	Nov	1.50	Nov	2.20	Nov	2.00	Nov	1.10	Nov	1.30		
Dec	3.80	Dec	1.10	Dec	6.10	Dec	2.80	Dec	1.60	Dec	2.40	Dec	2.50	Dec	1.50	Dec	0.80		
Jan 1983	3.70	Jan 1987	1.50	Jan 1991	5.70	Jan 1995	2.90	Jan 1999	1.70	Jan 2003	2.60	Jan 2007	2.10	Jan 2011	1.60	Jan 2015	-0.10		
Feb	3.50	Feb	2.10	Feb	5.30	Feb	2.90	Feb	1.60	Feb	3.00	Feb	2.40	Feb	2.10	Feb	0.00		
Mar	3.60	Mar	3.00	Mar	4.90	Mar	3.10	Mar	1.70	Mar	3.00	Mar	2.80	Mar	2.70	Mar	-0.10		
Apr	3.90	Apr	3.80	Apr	4.90	Apr	2.40	Apr	2.30	Apr	2.20	Apr	2.60	Apr	3.20	Apr	-0.20		
May	3.50	May	3.90	May	5.00	May	3.20	May	2.10	May	2.10	May	2.70	May	3.60	May	0.00		
Jun	2.60	Jun	3.70	Jun	4.70	Jun	3.00	Jun	2.00	Jun	2.10	Jun	2.70	Jun	3.60	Jun	0.10		
Jul	2.50	Jul	3.90	Jul	4.40	Jul	2.80	Jul	2.10	Jul	2.10	Jul	2.40	Jul	3.60	Jul	0.20		
Aug	2.60	Aug	4.30	Aug	3.80	Aug	2.60	Aug	2.30	Aug	2.20	Aug	2.00	Aug	3.80	Aug	0.20		
Sep	2.90	Sep	4.40	Sep	3.40	Sep	2.50	Sep	2.60	Sep	2.30	Sep	2.80	Sep	3.90	Sep	0.00		
Oct	2.90	Oct	4.50	Oct	2.90	Oct	2.80	Oct	2.60	Oct	2.00	Oct	3.50	Oct	3.50	Oct	0.20		
Nov	3.30	Nov	4.50	Nov	3.00	Nov	2.60	Nov	2.60	Nov	1.80	Nov	4.30	Nov	3.40	Nov	0.50		
Dec	3.80	Dec	4.40	Dec	3.10	Dec	2.50	Dec	2.70	Dec	1.90	Dec	4.10	Dec	3.00	Dec	0.70		

Source: U.S. Dept of Labor, Bureau of Labor Statistics, Consumer Price Index - All Urban Consumers,

Change for 12-Month Period, Bureau of Labor Statistics,

http://www.bls.gov/schedule/archives/cpi_nr.htm

Rate of Inflation



Year

Average Yields on AA, A and BBB Public Utility Bonds

Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)	Mo/Year	Rate (%)
Jan 1980	12.12	Jan 1984	13.40	Jan 1988	10.75	Jan 1992	8.67	Jan 1996	7.20	Jan 2000	8.22	Jan 2004	6.23	Jan 2008	6.08	Jan 2012	4.48	Jan 2016	4.62
Feb Mar	13.48 14.33	Feb Mar	13.50 14.03	Feb Mar	10.11 10.11	Feb Mar	8.77 8.84	Feb Mar	7.37 7.72	Feb Mar	8.10 8.14	Feb Mar	6.17 6.01	Feb Mar	6.28 6.29	Feb Mar	4.47 4.59	Feb Mar	4.44 4.40
Apr	13.50	Apr	14.30	Apr	10.11	Apr	8.79	Apr	7.72	Apr	8.14	Apr	6.38	Apr	6.36	Apr	4.54	Apr	4.16
May	12.17	May	14.95	May	10.75	May	8.72	May	7.99	May	8.55	May	6.68	May	6.38	May	4.36	May	4.06
Jun	11.87	Jun	15.16	Jun	10.71	Jun	8.64	Jun	8.07	Jun	8.22	Jun	6.53	Jun	6.50	Jun	4.26	June	3.93
Jul	12.12	Jul	14.92	Jul	10.96	Jul	8.46	Jul	8.02	Jul	8.17	Jul	6.34	Jul	6.50	Jul	4.12		
Aug	12.82	Aug	14.29	Aug	11.09	Aug	8.34	Aug	7.84	Aug	8.05	Aug	6.18	Aug	6.48	Aug	4.18		
Sep	13.29	Sep	14.04	Sep	10.56	Sep	8.32	Sep	8.01	Sep	8.16	Sep	6.01	Sep	6.59	Sep	4.17		
Oct	13.53	Oct	13.68	Oct	9.92	Oct	8.44	Oct	7.76	Oct	8.08	Oct	5.95	Oct	7.70	Oct	4.04		
Nov	14.07	Nov	13.15	Nov	9.89	Nov	8.53	Nov	7.48	Nov	8.03	Nov	5.97	Nov	7.80	Nov	3.95		
Dec	14.48	Dec	12.96	Dec	10.02	Dec	8.36	Dec	7.58	Dec	7.79	Dec	5.93	Dec	6.87	Dec	4.10		
Jan 1981	14.22	Jan 1985	12.88	Jan 1989	10.02	Jan 1993	8.23	Jan 1997	7.79	Jan 2001	7.76	Jan 2005	5.80	Jan 2009	6.77	Jan 2013	4.24		
Feb	14.84	Feb	13.00	Feb	10.02	Feb	8.00	Feb	7.68	Feb	7.69	Feb	5.64	Feb	6.72	Feb	4.29		
Mar	14.86	Mar	13.66	Mar	10.16	Mar	7.85	Mar	7.92	Mar	7.59	Mar	5.86	Mar	6.85	Mar	4.29		
Apr	15.32	Apr	13.42	Apr	10.14	Apr	7.76	Apr	8.08	Apr	7.81	Apr	5.72	Apr	6.90	Apr	4.08		
May	15.84	May	12.89	May	9.92	May	7.78	May	7.94	May	7.88	May	5.60	May	6.83	May	4.24		
Jun	15.27	Jun	11.91	Jun	9.49	Jun	7.68	Jun	7.77	Jun	7.75	Jun	5.39	June	6.54	Jun	4.63		
Jul	15.87	Jul	11.88	Jul	9.34	Jul	7.53	Jul	7.52	Jul	7.71	Jul	5.50	July	6.15	Jul	4.78		
Aug	16.33	Aug	11.93	Aug	9.37	Aug	7.21	Aug	7.57	Aug	7.57	Aug	5.51	Aug	5.80	Aug	4.85		
Sep	16.89	Sep	11.95	Sep	9.43	Sep	7.01	Sep	7.50	Sep	7.73	Sep	5.54	Sep	5.60	Sep	4.90		
Oct	16.76	Oct	11.84	Oct	9.37	Oct	6.99	Oct	7.37	Oct	7.64	Oct	5.79	Oct	5.64	Oct	4.78		
Nov	15.50	Nov	11.33	Nov	9.33	Nov	7.30	Nov	7.24	Nov	7.61	Nov	5.88	Nov	5.71	Nov	4.86		
Dec	15.77	Dec	10.82	Dec	9.31	Dec	7.33	Dec	7.16	Dec	7.86	Dec	5.83	Dec	5.86	Dec	4.88		
Jan 1982	16.73	Jan 1986	10.66	Jan 1990	9.44	Jan 1994	7.31	Jan 1998	7.03	Jan 2002	7.69	Jan 2006	5.77	Jan 2010	5.83	Jan 2014	4.72		
Feb	16.72	Feb	10.16	Feb	9.66	Feb	7.44	Feb	7.09	Feb	7.62	Feb	5.83	Feb	5.94	Feb	4.64		
Mar	16.07	Mar	9.33	Mar	9.75	Mar	7.83	Mar	7.13	Mar	7.83	Mar	5.98	Mar	5.90	Mar	4.64		
Apr	15.82	Apr	9.02	Apr	9.87	Apr	8.20	Apr	7.12	Apr	7.74	Apr	6.28	Apr	5.87	Apr	4.52		
May	15.60	May	9.52	May	9.89	May	8.32	May	7.11	May	7.76	May	6.39	May	5.59	May	4.37		
Jun	16.18	Jun	9.51	Jun	9.69	Jun	8.31	Jun	6.99	Jun	7.67	June	6.39	June	5.62	Jun	4.42		
Jul	16.04	Jul	9.19	Jul	9.66	Jul	8.47	Jul	6.99	Jul	7.54	July	6.37	July	5.41	Jul	4.35		
Aug	15.22	Aug	9.15	Aug	9.84	Aug	8.41	Aug	6.96	Aug	7.34	Aug	6.20	Aug	5.10	Aug	4.28		
Sep	14.56	Sep	9.42	Sep	10.01	Sep	8.65	Sep	6.88	Sep	7.23	Sep	6.03	Sep	5.10	Sep	4.40		
Oct	13.88	Oct	9.39	Oct	9.94	Oct	8.88	Oct	6.88	Oct	7.43	Oct	6.01	Oct	5.20	Oct	4.24		
Nov	13.58	Nov	9.15	Nov	9.76	Nov	9.00	Nov	6.96	Nov	7.31	Nov	5.82	Nov	5.45	Nov	4.29		
Dec	13.55	Dec	8.96	Dec	9.57	Dec	8.79	Dec	6.84	Dec	7.20	Dec	5.83	Dec	5.64	Dec	4.18		
Jan 1983	13.46	Jan 1987	8.77	Jan 1991	9.56	Jan 1995	8.77	Jan 1999	6.87	Jan 2003	7.13	Jan 2007	5.96	Jan 2011	5.64	Jan 2015	3.83		
Feb	13.60		8.81	Feb	9.31	Feb	8.56	Feb	7.00	Feb	6.92	Feb	5.91	Feb	5.73	Feb	3.91		
Mar	13.28	Feb Mar	8.75	Mar	9.39	Mar	8.41	Mar	7.00	Mar	6.80	Mar	5.87	Mar	5.62	Mar	3.97		
Apr	13.03	Apr	9.30	Apr	9.30	Apr	8.30	Apr	7.16	Apr	6.68	Apr	6.01	Apr	5.62	Apr	3.96		
May	13.00	May	9.82	May	9.29	May	7.93	May	7.42	May	6.35	May	6.03	May	5.38	May	4.38		
Jun	13.17	Jun	9.87	Jun	9.44	Jun	7.62	Jun	7.70	Jun	6.21	June	6.34	June	5.32	June	4.60		
Jul	13.28	Jul	10.01	Jul	9.40	Jul	7.73	Jul	7.66	Jul	6.54	July	6.28	July	5.34	July	4.63		
Aug	13.50	Aug	10.33	Aug	9.16	Aug	7.86	Aug	7.86	Aug	6.78	Aug	6.28	Aug	4.78	Aug	4.54		
Sep	13.35	Sep	11.00	Sep	9.03	Sep	7.62	Sep	7.87	Sep	6.58	Sep	6.24	Sep	4.61	Sep	4.69		
Oct	13.19	Oct	11.32	Oct	8.99	Oct	7.46	Oct	8.02	Oct	6.50	Oct	6.17	Oct	4.66	Oct	4.63		
Nov	13.33	Nov	10.82	Nov	8.93	Nov	7.40	Nov	7.86	Nov	6.44	Nov	6.04	Nov	4.37	Nov	4.73		
Dec	13.48	Dec	10.99	Dec	8.76	Dec	7.21	Dec	8.04	Dec	6.36	Dec	6.23	Dec	4.47	Dec	4.69		

Source:

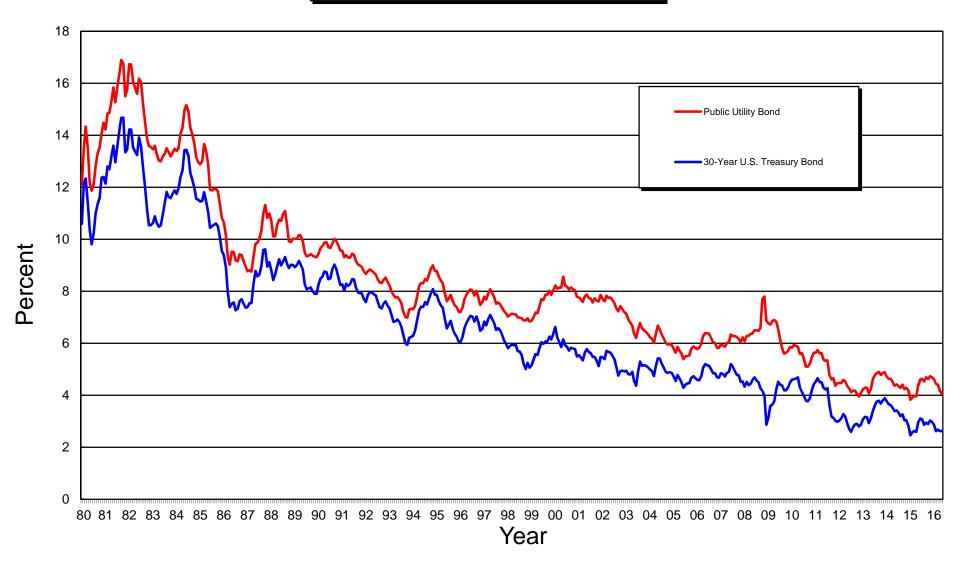
Mergent Bond Record

Average Yields on Thirty-Year U.S. Treasury Bonds

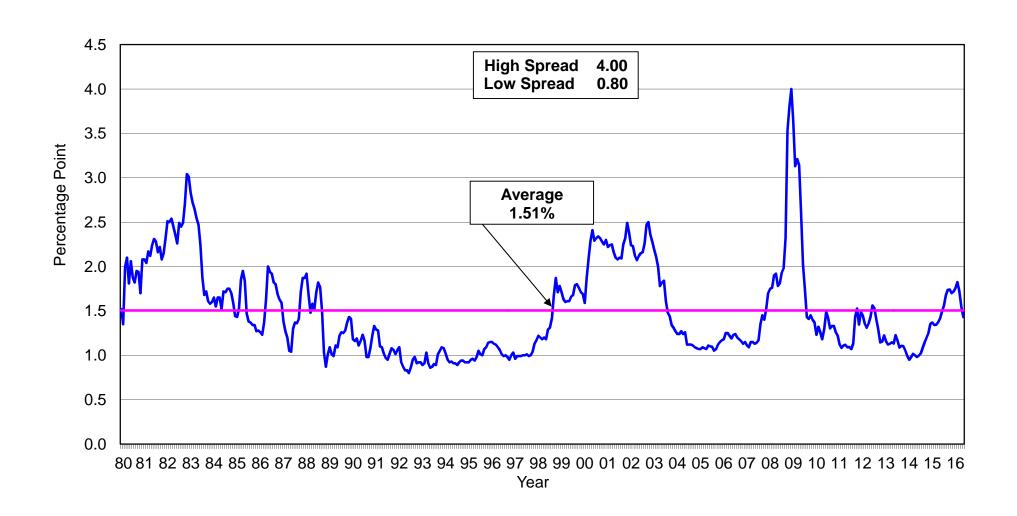
Mo/Year Jan 1980	Rate (%) 10.60	Mo/Year Jan 1984	Rate (%) 11.75	Mo/Year Jan 1988	Rate (%) 8.83	Mo/Year Jan 1992	Rate (%) 7.58	Mo/Year Jan 1996	Rate (%) 6.05	Mo/Year Jan 2000	Rate (%) 6.63	Mo/Year Jan 2004	Rate (%) 4.99	Mo/Year Jan 2008	Rate (%) 4.33	Mo/Year Jan 2012	Rate (%) 3.03	Mo/Year Jan 2016	Rate (%) 2.86
Feb	12.13	Feb	11.75	Feb	8.43	Feb	7.85	Feb	6.24	Feb	6.23	Feb	4.93	Feb	4.52	Feb	3.11	Feb	2.62
Mar	12.13	Mar	12.38	Mar	8.63	Mar	7.97	Mar	6.60	Mar	6.05	Mar	4.74	Mar	4.39	Mar	3.28	Mar	2.68
Apr	11.40	Apr	12.65	Apr	8.95	Apr	7.96	Apr	6.79	Apr	5.85	Apr	5.14	Apr	4.44	Apr	3.18	Apr	2.62
May	10.36	May	13.43	May	9.23	May	7.89	May	6.93	May	6.15	May	5.42	May	4.60	May	2.93	May	2.63
Jun	9.81	Jun	13.44	Jun	9.00	Jun	7.84	Jun	7.06	Jun	5.93	Jun	5.41	Jun	4.69	Jun	2.70	June	2.45
Jul	10.24	Jul	13.21	Jul	9.14	Jul	7.60	Jul	7.03	Jul	5.85	Jul	5.22	Jul	4.57	Jul	2.59		
Aug	11.00	Aug	12.54	Aug	9.32	Aug	7.39	Aug	6.84	Aug	5.72	Aug	5.06	Aug	4.50	Aug	2.77		
Sep	11.34	Sep	12.29	Sep	9.06	Sep	7.34	Sep	7.03	Sep	5.83	Sep	4.90	Sep	4.27	Sep	2.88		
Oct	11.59	Oct	11.98	Oct	8.89	Oct	7.53	Oct	6.81	Oct	5.80	Oct	4.86	Oct	4.17	Oct	2.90		
Nov	12.37	Nov	11.56	Nov	9.02	Nov	7.61	Nov	6.48	Nov	5.78	Nov	4.89	Nov	4.00	Nov	2.80		
Dec	12.40	Dec	11.52	Dec	9.01	Dec	7.44	Dec	6.55	Dec	5.49	Dec	4.86	Dec	2.87	Dec	2.88		
Jan 1981	12.14	Jan 1985	11.45	Jan 1989	8.93	Jan 1993	7.34	Jan 1997	6.83	Jan 2001	5.54	Jan 2005	4.73	Jan 2009	3.13	Jan 2013	3.08		
Feb	12.80	Feb	11.47	Feb	9.01	Feb	7.09	Feb	6.69	Feb	5.45	Feb	4.55	Feb	3.59	Feb	3.17		
Mar	12.69	Mar	11.81	Mar	9.17	Mar	6.82	Mar	6.93	Mar	5.34	Mar	4.78	Mar	3.64	Mar	3.16		
Apr	13.20	Apr	11.47	Apr	9.03	Apr	6.85	Apr	7.09	Apr	5.65	Apr	4.65	Apr	3.76	Apr	2.93		
May	13.60	May	11.05	May	8.83	May	6.92	May	6.94	May	5.78	May	4.49	May	4.23	May	3.11		
Jun	12.96	Jun	10.44	Jun	8.27	Jun	6.81	Jun	6.77	Jun	5.67	Jun	4.29	Jun	4.52	Jun	3.40		
Jul	13.59	Jul	10.50	Jul	8.08	Jul	6.63	Jul	6.51	Jul	5.61	Jul	4.41	July	4.41	Jul	3.61		
Aug	14.17	Aug	10.56	Aug	8.12	Aug	6.32	Aug	6.58	Aug	5.48	Aug	4.46	Aug	4.37	Aug	3.76		
Sep	14.67	Sep	10.61	Sep	8.15	Sep	6.00	Sep	6.50	Sep	5.48	Sep	4.47	Sep	4.19	Sep	3.79		
Oct	14.68	Oct	10.50	Oct	8.00	Oct	5.94	Oct	6.33	Oct	5.32	Oct	4.67	Oct	4.19	Oct	3.68		
Nov	13.35	Nov	10.06	Nov	7.90	Nov	6.21	Nov	6.11	Nov	5.12	Nov	4.73	Nov	4.31	Nov	3.80		
Dec	13.45	Dec	9.54	Dec	7.90	Dec	6.25	Dec	5.99	Dec	5.48	Dec	4.66	Dec	4.49	Dec	3.89		
Jan 1982	14.22	Jan 1986	9.40	Jan 1990	8.26	Jan 1994	6.29	Jan 1998	5.81	Jan 2002	5.44	Jan 2006	4.59	Jan 2010	4.60	Jan 2014 Feb	3.77		
Feb Mar	14.22 13.53	Feb Mar	8.93 7.96	Feb Mar	8.50 8.56	Feb Mar	6.49 6.91	Feb Mar	5.89 5.95	Feb Mar	5.39 5.71	Feb Mar	4.58 4.73	Feb Mar	4.62 4.64	Mar	3.66 3.62		
Apr	13.37	Apr	7.39	Apr	8.76	Apr	7.27	Apr	5.92	Apr	5.67	Apr	5.06	Apr	4.69	Apr	3.52		
May	13.24	May	7.52	May	8.73	May	7.41	May	5.93	May	5.64	Mav	5.20	May	4.09	May	3.39		
Jun	13.92	Jun	7.57	Jun	8.46	Jun	7.40	Jun	5.70	Jun	5.52	Jun	5.16	Jun	4.13	Jun	3.42		
Jul	13.55	Jul	7.27	Jul	8.50	Jul	7.58	Jul	5.68	Jul	5.38	July	5.13	July	3.99	Jul	3.33		
Aug	12.77	Aug	7.33	Aug	8.86	Aug	7.49	Aug	5.54	Aug	5.08	Aug	5.00	Aug	3.80	Aug	3.20		
Sep	12.07	Sep	7.62	Sep	9.03	Sep	7.71	Sep	5.20	Sep	4.76	Sep	4.85	Sep	3.77	Sep	3.26		
Oct	11.17	Oct	7.70	Oct	8.86	Oct	7.94	Oct	5.01	Oct	4.93	Oct	4.85	Oct	3.87	Oct	3.04		
Nov	10.54	Nov	7.52	Nov	8.54	Nov	8.08	Nov	5.25	Nov	4.95	Nov	4.69	Nov	4.19	Nov	3.04		
Dec	10.54	Dec	7.37	Dec	8.24	Dec	7.87	Dec	5.06	Dec	4.92	Dec	4.68	Dec	4.42	Dec	2.83		
Jan 1983	10.63	Jan 1987	7.39	Jan 1991	8.27	Jan 1995	7.85	Jan 1999	5.16	Jan 2003	4.94	Jan 2007	4.85	Jan 2011	4.52	Jan 2015	2.46		
Feb	10.88	Feb	7.54	Feb	8.03	Feb	7.61	Feb	5.37	Feb	4.81	Feb	4.82	Feb	4.65	Feb	2.57		
Mar	10.63	Mar	7.55	Mar	8.29	Mar	7.45	Mar	5.58	Mar	4.80	Mar	4.72	Mar	4.51	Mar	2.63		
Apr	10.48	Apr	8.25	Apr	8.21	Apr	7.36	Apr	5.55	Apr	4.90	Apr	4.86	Apr	4.50	Apr	2.59		
May	10.53	May	8.78	May	8.27	May	6.95	May	5.81	May	4.53	May	4.90	May	4.29	May	2.96		
Jun	10.93	Jun	8.57	Jun	8.47	Jun	6.57	Jun	6.04	Jun	4.37	Jun	5.20	Jun	4.23	Jun	3.11		
Jul	11.40	Jul	8.64	Jul	8.45	Jul	6.72	Jul	5.98	Jul	4.93	July	5.11	Jul	4.27	Jul	3.07		
Aug	11.82	Aug	8.97	Aug	8.14	Aug	6.86	Aug	6.07	Aug	5.30	Aug	4.93	Aug	3.65	Aug	2.86		
Sep	11.63	Sep	9.59	Sep	7.95	Sep	6.55	Sep	6.07	Sep	5.14	Sep	4.79	Sep	3.18	Sep	2.95		
Oct	11.58	Oct	9.61	Oct	7.93	Oct	6.37	Oct	6.26	Oct	5.16	Oct	4.77	Oct	3.13	Oct	2.89		
Nov	11.75	Nov	8.95	Nov	7.92	Nov	6.26	Nov	6.15	Nov	5.13	Nov	4.52	Nov	3.02	Nov	3.03		
Dec	11.88	Dec	9.12	Dec	7.70	Dec	6.06	Dec	6.35	Dec	5.08	Dec	4.53	Dec	2.98	Dec	2.97		

Sources: http://finance.yahoo.com/q/hp?s=^TYX http://research.stlouisfed.org/fred2/data/GS30.txt

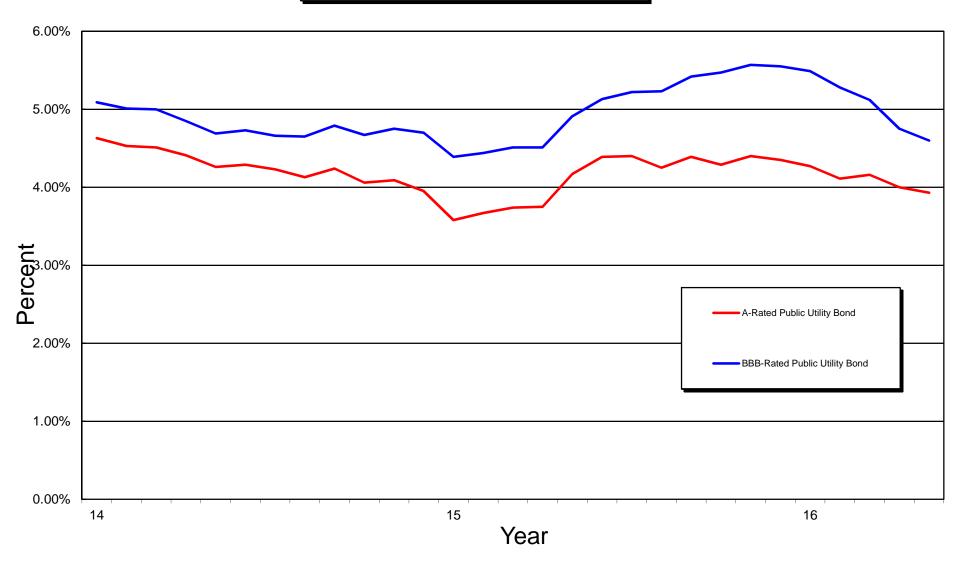
Average Yields on Public Utility Bonds and Thirty-Year U.S. Treasury Bonds (1980 - 2016)

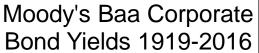


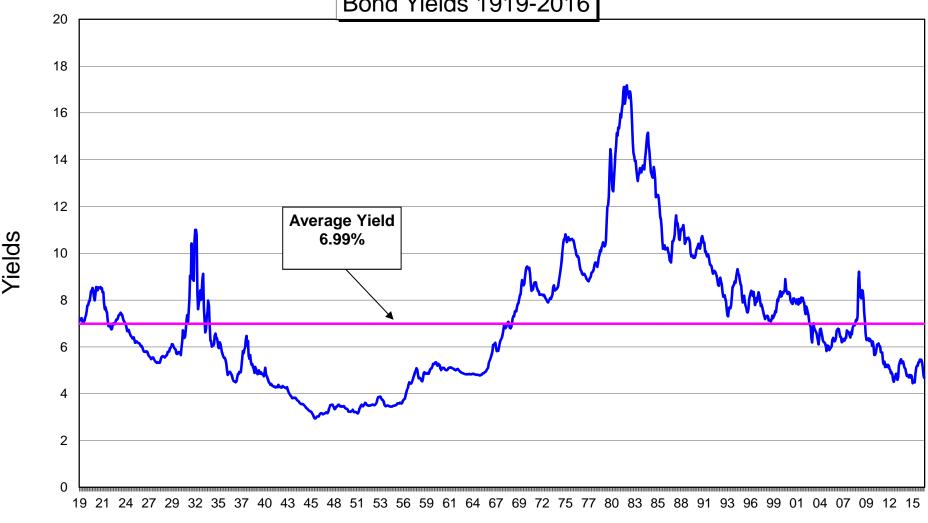
Monthly Spreads Between Yields on Public Utility Bonds and Thirty-Year U.S. Treasury Bonds (1980 - 2016)



Average Yields on A-rated and BBB-rated Pulic Utility Bonds (2014-present)







Year

Historical Consolidated Capital Structures for Great Plains Energy

Capital Components	2011	2012	2013	2014	2015	5-Year Average
Common Equity	\$2,960.9	\$3,340.0	\$3,474.4	\$3,586.1	\$3,656.5	\$3,403.6
Preferred Stock	39.0	39.0	39.0	39.0	39.0	\$39.0
Long-Term Debt	3,543.7 *	3,019.9 *	3,516.8 *	3,480.8 *	3,746.2 *	\$3,461.5
Short-Term Debt	384.0	716.1	292.2	533.3	409.0	\$466.9
Total	\$6,927.6	\$7,115.0	\$7,322.4	\$7,639.2	\$7,850.7	\$7,371.0

Capital Components	2011	2012	2013	2014	2015	5-Year Average
Common Equity	42.74%	46.94%	47.45%	46.94%	46.58%	46.13%
Preferred Stock	0.56%	0.55%	0.53%	0.51%	0.50%	0.53%
Long-Term Debt	51.15%	42.44%	48.03%	45.56%	47.72%	46.98%
Short-Term Debt	5.54%	10.06%	3.99%	6.98%	5.21%	6.36%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Sources:

Great Plains Energy's SEC 10-K for 12/31/2011. Great Plains Energy's SEC 10-K for 12/31/2013. Great Plains Energy's SEC 10-K for 12/31/2014. Great Plains Energy's SEC 10-K for 12/31/2015.

Note: *Includes current maturities of long-term debt.

KANSAS CITY POWER & LIGHT COMPANY, GREAT PLAINS ENERGY and GMO Weighted Average Cost of Long-Term Debt Capital December 31, 2015

Dece	ember 31, 2015										
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Line	Issue	Initial Offering	Date of Offering	Date of Maturity	Price to Public	Original Discount (Premium)	Underwriting & Issuance Expense	Net Proceeds to Company	Cost to Company	Long-term Debt Capital Outstanding	Annual Cost of Long-term Debt Capital
	SAS CITY POWER & LIGHT ONLY	Offering	Offering	iviaturity	Fublic	(Fremlum)	Lxperise	to Company	Company	Odistanding	Debt Capital
	Pledged General Mortgage Bonds										
1	EIRR 1992 Series	\$31,000,000	9/15/1992	7/1/2017	\$31,000,000		\$844,508	\$30,155,492	1.884%	\$31,000,000	\$584,119
2	MATES Series 1993-A	\$40,000,000	12/7/1993	12/1/2023	\$40,000,000		\$957,337	\$39,042,663	3.220%	\$40,000,000	\$1,288,183
3	MATES Series 1993-B	\$39,480,000	12/7/1993	12/1/2023	\$39,480,000		\$364,531	\$39,115,469	3.053%	\$39,480,000	\$1,205,502
4	EIRR La Cygne 2005 Series - 4.65% Coupon	\$21,940,000	2/23/1994	9/1/2035	\$21,940,000			\$21,940,000	4.650%	\$21,940,000	\$1,020,210
5	Mortgage Bonds Series 2009A - 7.15%	\$400,000,000	3/24/2009	3/24/2019	\$400,000,000	\$432,000	\$4,023,316	\$395,544,684	7.309%	\$400,000,000	\$29,235,757
	Unsecured Notes										
6	Senior Notes Due 2017 - 5.85% Coupon (1)	\$250,000,000	5/30/2007	6/15/2017	\$250,000,000	\$420,000	\$1,843,906	\$247,736,094	5.972%	\$250,000,000	\$14,928,940
7	Senior Notes Due 2035 - 6.05% Coupon (2)	\$250,000,000	11/17/2005	11/15/2035	\$250,000,000	\$1,505,000	\$2,443,109	\$246,051,891	6.166%	\$250,000,000	\$15,415,411
8	Senior Notes Due 2018 - 6.375% Coupon (3)	\$350,000,000	3/6/2008	3/1/2018	\$350,000,000		\$2,566,730	\$347,433,270	6.476%	\$350,000,000	\$22,665,182
9	Senior Notes Due 2041 - 5.30% Coupon (4)	\$400,000,000	9/20/2011	10/1/2041	\$400,000,000	\$2,568,000	\$3,876,569	\$393,555,431	5.409%	\$400,000,000	\$21,636,650
10	Senior Notes Due 2023 - 3.15% Coupon (1)	\$300,000,000	3/14/2013	3/15/2023	\$300,000,000	\$282,000	\$2,339,941	\$297,378,059	3.253%	\$300,000,000	\$9,759,257
11	Senior Notes Due 2023 - 3.65% Coupon (1)	\$350,000,000	8/13/2015	8/15/2025	\$350,000,000	\$1,246,000	\$2,925,379	\$345,828,621	3.794%	\$350,000,000	\$13,280,167
	Environmental Improvement Revenue Refunding Bonds										
12	2005 Series Due 2035 - 4.65% Coupon	\$50,000,000	9/1/05	9/1/2035	\$50,000,000			\$50,000,000	4.650%	\$50,000,000	\$2,325,000
13	2007 Series A Due 2035	\$73,250,000	9/19/07	9/1/2035	\$73,250,000		\$491,516	\$72,758,484	0.722%	\$73,250,000	\$529,181
14	2007 Series B Due 2035	\$73,250,000	9/19/07	9/1/2035	\$73,250,000		\$1,696,315	\$71,553,685	0.803%	\$73,250,000	\$588,136
15	2008 Series Due 2038	\$23,400,000	5/28/08	5/1/2038	ψ7 0,200,000		ψ1,000,010	ψ7 1,000,000	3.081%	\$23,400,000	\$720,949
	Other Long-Term Debt										
16	Unamortized Discount on Senior Notes									(4,801,986)	
17	Loss/(Gain) on Reacquired Debt										\$ 704,148
18	Weighted Cost of Interest Rate Management Products Tax-exempt Debt Repurchased (lines 4 and 12)								4.65%	(\$\frac{1}{2}\) 0.40,000\	\$8,535,948
19 20	Total KCP&L Long-Term Debt Capital				#				4.00%	(\$71,940,000) \$2,575,578,014	(\$3,345,210) \$141,077,532
20	Total Not all Long-Term Debt Gapital									Ψ2,373,370,014	\$141,077,332
21	KCP&L Weighted Avg. Cost of Long-Term Debt Capital				12/31/2015			5.478%			
GMC	ONLY										_
	Plades d Occased Mantenas Panels										
1	Pledged General Mortgage Bonds SJLP First Mortgage Bonds - 9.44%	\$22,500,000	2/1/91	2/1/21	\$22,500,000		\$664,653	\$21,835,347	9.745%	\$6,750,000	\$657,819
	OCE 1 not mortgage Bonds 0.4478	Ψ22,000,000	2/1/01	2/1/21	Ψ22,000,000		ψ004,000	Ψ21,000,047	0.1 40 /0	ψο, εσο, σσο	φου, στο
	Unsecured Notes										
2	Senior Notes Due 2021 - 8.27% Coupon	\$131,750,000	3/31/99	11/15/21	\$131,750,000		\$3,591,143	\$128,158,857	8.547%	\$80,850,000	\$6,910,156
3	Medium Term Notes Due 2023 - 7.33% Coupon	\$3,000,000	11/30/93	11/30/23	\$3,000,000		\$163,606	\$2,836,394	7.803%	\$3,000,000	\$234,095
4	Medium Term Notes Due 2023 - 7.17% Coupon	\$7,000,000	12/6/93	12/1/23	\$7,000,000		\$382,259	\$6,617,741	7.636%	\$7,000,000	\$534,536
5	Senior Notes Series A Due 2025 - 3.49% Coupon	\$125,000,000	8/16/13	8/15/25	\$125,000,000		\$782,720	\$124,217,280	3.555%	\$125,000,000	\$4,443,193
6	Senior Notes Series B Due 2033 - 4.06% Coupon	\$75,000,000	8/16/13	8/15/33	\$75,000,000		\$467,003	\$74,532,997	4.106%	\$75,000,000	\$3,079,461
7	Senior Notes Series C Due 2043 - 4.74% Coupon	\$150,000,000	8/16/13	8/15/43	\$150,000,000		\$938,387	\$149,061,613	4.779%	\$150,000,000	\$7,169,204
	Other Long-Term Debt										
8	Unamortized Discount on Senior Notes										
9	Loss/(Gain) on Reacquired Debt										\$ 36,121
10	Weighted Cost of Interest Rate Management Products										
11	Total GMO Long-Term Debt Capital			:	#					\$447,600,000	\$23,064,584
12	GMO Weighted Avg. Cost of Long-Term Debt Capital				12/31/2015			5.153%			

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KANSAS CITY POWER & LIGHT COMPANY, GREAT PLAINS ENERGY and GMO Weighted Average Cost of Long-Term Debt Capital December 31, 2015

		(a)	(b)	(c)	(d)	(e) Original	(f) Underwriting	(g)	(h)	(i) Long-term	(j) Annual Cost
Line	Issue	Initial Offering	Date of Offering	Date of Maturity	Price to Public	Discount (Premium)	& Issuance Expense	Net Proceeds to Company	Cost to Company	Debt Capital Outstanding	of Long-term Debt Capital
GRE	AT PLAINS ENERGY ONLY										
1 2 3	Unsecured Notes Senior Notes Due 2017 - 6.875% Coupon (5) Senior Notes Due 2021 - 4.85% Coupon Senior Notes Due 2022 - 5.292% Coupon	\$100,000,000 \$350,000,000 \$287,500,000	9/20/2007 5/16/2011 3/19/2012	9/15/2017 6/1/2021 6/15/2022	\$100,000,000 \$350,000,000 \$287,500,000	\$516,000 \$336,000 (\$6,584,013)	\$737,098 \$2,650,976 \$2,576,301	\$98,746,902 \$347,013,024 \$291,507,712	7.052% 4.959% 5.112%	\$100,000,000 \$350,000,000 \$287,500,000	\$7,051,752 \$17,357,475 \$14,697,605
4 5 6	Other Long-Term Debt Unamortized Discount on Senior Notes Unamortized Premium on Senior Notes Weighted Cost of Interest Rate Management Products	_								(\$267,955) \$4,141,557	\$453,103
7	Total GPE Only Long-Term Debt Capital				#					\$741,373,602	\$39,559,935
8	GPE Only Weighted Avg. Cost of Long-Term Debt Capital				12/31/2015			5.336%			
GRE	EAT PLAINS ENERGY, KANSAS CITY POWER & LIGHT and GMO										
1	Total GPE, KCP&L and GMO Long-Term Debt Capital				#					\$3,764,551,616	\$203,702,051
2	GPE, KCP&L and GMO Weighted Avg. Cost of Long-Term Debt Ca	apital			12/31/2015			5.411%			

⁽¹⁾ Expenses associated with the Senior Notes are being amortized over a 10 year period. (2) Expenses associated with the Senior Notes are being amortized over a 30 year period.

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SCHEDULE 6-1 Page 2 of 2

⁽³⁾ Expenses associated with the Senior Notes are being amortized over a 10 year period.

⁽⁴⁾ Expenses associated with the Senior Notes are being amortized over a 30 year period.

⁽⁵⁾ Expenses associated with the Senior Notes are being amortized over a 10 year period.

GREAT PLAINS ENERGY INCORPORATED

Weighted Cost of Preferred Stock Capital Outstanding at December 31, 2015

	(a)	(b)	(c) lo. of Share	(d)	(e) Underwriters	(f)	(g)	(h)	(i)	(j) Annual Cost
		Date of	Initial		Discounts &	Issuance	Net Proceeds	Cost to	Preferred Stock	of Preferred
Line	Description of Issue	Issuance	Offering	Price to Public	Commissions	Expense	to Company	Company	Capital Outstanding	Stock Capital
1	3.80% cum \$100 par	12-01-46	100,000	\$10,270,000	\$179,000	\$58,391	\$10,032,609	3.788%	\$10,000,000	\$378,800
2	4.50% cum \$100 par	1-20-52	100,000	10,000,000	195,000	79,241	9,725,759	4.627%	10,000,000	462,700
3	4.20% cum \$100 par	1-21-54	70,000	7,070,000	122,500	41,270	6,906,230	4.257%	7,000,000	297,990
4	4.35% cum \$100 par	4-17-56	120,000	12,000,000	201,600	71,304	11,727,096	4.451%	12,000,000	534,120
5	Total Preferred Stock Ca	apital							\$39,000,000	\$1,673,610
6	Weighted Average Cost						4.291%			

Rate Making Capital Structure as of December 31, 2015 for KCPL Greater Missouri Operations Company

Capital Component	Am	Dollar ount (000's)	Percentage of Capital
Common Stock Equity	\$	3,656,500	49.01%
Preferred Stock	\$	39,000	0.52%
Long-Term Debt	\$	3,764,552	50.46%
Short-Term Debt	\$	-	0.00%
Total Capitalization	\$	7,460,052	100.00%

Source: GPE's SEC Form 10-K as of 12/31/2015 and GMO's Response to Staff DR No. 220

Criteria for Selecting Comparable Electric Utility Companies

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
				At least 50% of	At least	At Least 80% of		At Least Investment	T Growth Coverage from at least 2 equity	n No	Comparable
		Stock	Regulated	Plant from	25% of	Income	No Reduced	Grade Credit	analysts in last	Pending	Company
SNL Financial		Publicly	Utility	Electric	Electric Plant	from Regulated	Dividend	Rating	90 days and Current	Merger or	Met All
Power Companies	Ticker	Traded	(EEI)	Utility	Generation	Utility Operations	Since 2013	(2 of 3 agencies)	L-T Growth Available	Acquisition	Criteria
8point3 Energy Partners LP	CAFD	Yes	NA							•	
AES Corporation	AES	Yes	NA								
ALLETE, Inc.	ALE	Yes	No								
Alliant Energy Corporation	LNT AEE	Yes	Yes	Yes	Yes Yes	Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
American Electric Power Company, Inc		Yes Yes	Yes Yes	Yes Yes	Yes	Yes Yes	Yes	Yes Yes	Yes Yes	Yes	Yes Yes
Atlantic Power Corporation	ATP	Yes	NA NA	1 es	1 es	1 es	ies	1 es	ies	ies	ies
Avangrid, Inc.	AGR	Yes	No								
Avista Corporation	AVA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Black Hills Corporation	BKH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Calpine Corporation	CPN	Yes	NA								
CenterPoint Energy, Inc.	CNP	Yes	No								
Chesapeake Utilities Corporation	CPK	Yes	NA								
CMS Energy Corporation Consolidated Edison, Inc.	CMS ED	Yes Yes	Yes Yes	Yes Yes	Yes No	Yes	Yes	Yes	Yes	Yes	Yes
Covanta Holding Corporation	CVA	Yes	Yes NA	1 es	190						
Dominion Resources, Inc.	D	Yes	No								
DTE Energy Company	DTE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Duke Energy Corporation	DUK	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Dynegy Inc.	DYN	Yes	NA								
Edison International	EIX	Yes	Yes	Yes	No						
El Paso Electric Company	EE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Empire District Electric Company	EDE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	**	
Entergy Corporation Eversource Energy	ETR ES	Yes Yes	Yes Yes	Yes Yes	Yes No	Yes	Yes	Yes	Yes	Yes	Yes
Exelon Corporation	EXC	Yes	No	ies	NO						
First Solar, Inc.	FSLR	Yes	NA NA								
FirstEnergy Corp.	FE	Yes	No								
Great Plains Energy Inc.	GXP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Hawaiian Electric Industries, Inc.	HE	Yes	No								
IDACORP, Inc.	IDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
InfraREIT, Inc.	HIFR	Yes	NA								
ITC Holdings Corp.	ITC MDU	Yes Yes	NA No								
MDU Resources Group, Inc. MGE Energy, Inc.	MGEE	Yes	No								
NextEra Energy, Inc.	NEE	Yes	No								
NiSource Inc.	NI	Yes	Yes	No							
NorthWestern Corporation	NWE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NRG Energy, Inc.	NRG	Yes	NA								
OGE Energy Corp.	OGE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ormat Technologies, Inc.	ORA	Yes	NA								
Otter Tail Corporation	OTTR	Yes	Yes	Yes	Yes	No					
Pattern Energy Group Inc. PG&E Corporation	PEGI PCG	Yes Yes	NA Yes	Yes	No						
Pinnacle West Capital Corporation	PNW	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PNM Resources, Inc.	PNM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Portland General Electric Company	POR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PPL Corporation	PPL	Yes	Yes	Yes	No						
Public Service Enterprise Group Incorpora		Yes	No								
SCANA Corporation	SCG	Yes	No								
Sempra Energy	SRE SCTY	Yes	No NA								
SolarCity Corporation Southern Company	SO	Yes Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Spark Energy, Inc.	SPKE	Yes	NA NA	165	165	105	Tes	1 05	165	110	
SunEdison, Inc.	SUNE	Yes	NA								
Talen Energy Corporation	TLN	Yes	NA								
TECO Energy, Inc.	TE	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
TerraForm Power, Inc.	TERP	Yes	NA								
UGI Corporation	UGI	Yes	NA								
Unitil Corporation	UTL	Yes	Yes	No							
Vectren Corporation	VVC WEC	Yes	Yes	No							
WEC Energy Group, Inc. Westar Energy, Inc.	WEC	Yes Yes	Yes Yes	No Yes	Yes	Yes	Yes	Yes	Yes	No	
Xcel Energy Inc.	XEL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
neer Emergy Inc.	ALL	160	100	100	100	103	100	10	163	100	100

Sources: Columns 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 and 11 = SNL Financial.

Column 4 = Edison Electric Institute 2015 Financial Review

NA = Not available.

KCPL GREATER MISSOURI OPERATIONS Case No. ER-2016-0156

Comparable Electrical Utility Companies for KCPL Greater Missouri Operations

				S&P
				Corporate
	Ticker			Credit
Number	Symbol	Company Name		Rating
1	LNT	Alliant Energy		A-
2	AEE	Ameren Corp.		BBB+
3	AEP	American Electric Power		BBB
4	BKH	Black Hills Corporation		BBB
5	CMS	CMS Energy Corporation		BBB+
6	DTE	DTE Energy Company		BBB+
7	ETR	Entergy Corporation		BBB
8	NWE	NorthWestern Corporation		BBB
9	OGE	OGE Energy Corp.		A-
10	PNW	Pinnacle West Capital		A-
11	PNM	PNM Resources, Inc.		BBB+
12	POR	Portland General Electric Company		BBB
13	XEL	Xcel Energy		A-
			Average	BBB+
		KCPL Greater Missouri Operations		BBB+

Dividends Per Share for the Comparable Electric Utility Companies

Company Name	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Alliant Energy	1.31	1.25	1.18	1.10	1.02	0.94	0.90	0.85	0.79	0.75	0.70	0.48	0.73	0.53	0.51	0.50
Ameren Corp.	1.92	1.82	1.74	1.66	1.61	1.60	1.60	1.56	1.54	1.54	2.54	2.54	2.54	2.54	2.54	2.54
American Electric Power	2.48	2.37	2.26	2.15	2.03	1.95	1.88	1.85	1.71	1.64	1.64	1.58	1.50	1.42	1.40	1.65
Black Hills Corporation	1.85	1.76	1.68	1.62	1.56	1.52	1.48	1.46	1.44	1.42	1.40	1.37	1.32	1.28	1.24	1.20
CMS Energy Corporation	1.42	1.33	1.24	1.16	1.08	1.02	0.96	0.84	0.66	0.50	0.36	0.20	0.00	0.00	0.00	0.00
DTE Energy Company	3.30	3.15	3.00	2.84	2.69	2.59	2.42	2.32	2.18	2.12	2.12	2.12	2.08	2.06	2.06	2.06
Entergy Corporation	3.61	3.53	3.43	3.34	3.32	3.32	3.32	3.32	3.24	3.00	3.00	2.58	2.16	2.16	1.89	1.60
NorthWestern Corporation	2.21	2.11	2.00	1.92	1.60	1.52	1.48	1.44	1.36	1.34	1.32	1.28	1.24	1.00	0.00	0.00
OGE Energy Corp.	1.33	1.21	1.10	1.05	0.95	0.85	0.80	0.76	0.73	0.71	0.70	0.68	0.67	0.67	0.67	0.67
Pinnacle West Capital	2.80	2.67	2.54	2.44	2.33	2.23	2.67	2.10	2.10	2.10	2.10	2.10	2.03	1.93	1.83	1.73
PNM Resources, Inc.	1.12	1.00	0.88	0.82	0.76	0.68	0.58	0.50	0.50	0.50	0.61	0.92	0.88	0.79	0.67	0.61
Portland General Electric Company	1.43	1.34	1.26	1.18	1.12	1.10	1.08	1.06	1.04	1.01	0.97	0.93	0.68 N	IA N	IA 1	NΑ
Xcel Energy	1.53	1.44	1.36	1.28	1.20	1.11	1.07	1.03	1.00	0.97	0.94	0.91	0.88	0.85	0.81	0.75

	10-Year Historical	5-Year Historcal	3-Year Projected
Alliant Energy	7.17%	6.44%	6.09%
Ameren Corp.	-4.39%	-2.84%	5.04%
American Electric Power	3.21%	4.20%	4.90%
Black Hills Corporation	2.37%	1.99%	4.52%
CMS Energy Corporation	NM	16.49%	7.05%
DTE Energy Company	2.76%	4.80%	5.13%
Entergy Corporation	5.85%	1.55%	2.66%
NorthWestern Corporation	17.56%	4.63%	4.80%
OGE Energy Corp.	3.64%	5.87%	8.20%
Pinnacle West Capital	2.47%	2.10%	4.70%
PNM Resources, Inc.	0.89%	7.04%	10.95%
Portland General Electric Company	NA	2.37%	6.70%
Xcel Energy	4.05%	4.24%	6.11%
Average	4.14%	4.53%	5.91%
Pure Play Average	4.63%	5.06%	6.43%
2014 Refined Proxy Group Average	2.31%	4.98%	6.30%

Earnings Per Share for the Comparable Electric Utility Companies

Company Name	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Alliant Energy	2.13	2.00	1.90	1.69	1.74	1.65	1.47	1.46	1.31	0.50	1.27	1.89	1.45	0.24	0.97	0.77
Ameren Corp.	3.00	2.79	2.51	2.39	2.42	2.11	2.13	1.79	0.58	2.78	2.88	2.98	2.66	3.13	2.84	3.14
American Electric Power	4.08	3.84	3.67	3.59	3.24	3.04	2.60	3.25	2.53	2.97	3.40	2.87	2.52	2.64	2.85	1.35
Black Hills Corporation	3.76	3.53	3.02	-0.71	2.95	2.68	2.50	1.01	1.62	2.04	-1.37	2.03	2.23	1.00	1.88	1.84
CMS Energy Corporation	2.33	2.18	2.02	1.90	1.76	1.71	1.43	1.65	1.50	0.87	1.25	-0.62	-0.66	-0.71	0.68	-0.30
DTE Energy Company	5.63	5.26	4.95	4.05	5.11	3.76	3.89	4.21	3.75	3.24	3.22	4.62	2.19	3.30	2.67	2.87
Entergy Corporation	5.18	5.22	5.11	-0.99	5.24	3.99	4.77	7.59	6.72	6.39	6.39	5.77	5.46	4.49	4.01	3.55
NorthWestern Corporation	3.67	3.42	3.26	3.20	3.01	2.46	2.67	2.55	2.14	2.03	1.78	1.45	1.06	1.73 N	ΙA	-2.31
OGE Energy Corp.	2.05	1.91	1.77	1.36	1.99	1.96	1.80	1.75	1.52	1.34	1.25	1.33	1.24	0.90	0.84	0.83
Pinnacle West Capital	4.42	4.20	3.99	3.94	3.59	3.69	3.54	3.01	3.05	2.34	2.59	2.83	2.67 N	A	2.70	2.47
PNM Resources, Inc.	2.09	1.89	1.61	0.20	1.46	1.26	1.32	1.98	-0.49	0.58	-3.66	0.77	1.55	1.00	1.45	0.99
Portland General Electric Company	2.48	2.37	2.11	2.05	2.24	1.36	1.87	1.95	1.66	1.31	1.39	2.33	1.14 N	A N	IA I	NΑ
Xcel Energy	2.44	2.32	2.20	1.94	2.03	1.91	1.86	1.72	1.62	1.49	1.47	1.38	1.39	1.23	1.30	1.31

	10-Year Historical	5-Year Historcal	3-Year Projected
Alliant Energy	9.90%	10.50%	8.04%
Ameren Corp.	-2.71%	2.09%	7.85%
American Electric Power	3.74%	2.09%	4.34%
Black Hills Corporation	0.42%	16.53%	NM
CMS Energy Corporation	NM	8.21%	7.07%
DTE Energy Company	3.87%	4.82%	11.58%
Entergy Corporation	-3.73%	-15.83%	NM
NorthWestern Corporation	NM	7.82%	4.63%
OGE Energy Corp.	7.57%	5.28%	14.66%
Pinnacle West Capital	3.76%	7.05%	3.88%
PNM Resources, Inc.	-1.63%	NM	118.63%
Portland General Electric Company	NM	5.32%	6.58%
Xcel Energy	4.35%	5.12%	7.96%
Average	2.55%	4.92%	17.75%
Pure Play Average	2.74%	6.59%	20.58%
2014 Refined Proxy Group Average	3.04%	5.65%	19.55%

Book Value Per Share for the Comparable Electric Utility Companies

Company Name	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003
Alliant Energy	19.62	18.69	17.50	16.41	15.50	14.79	14.12	13.57	13.05	12.53	12.78	12.15	11.42	10.43	11.07	10.69
Ameren Corp.	31.39	30.32	29.36	28.63	27.67	26.97	27.27	32.64	32.15	33.09	32.80	32.41	31.86	31.09	29.71	26.73
American Electric Power	42.18	40.17	38.28	36.44	34.37	32.98	31.37	30.33	28.33	27.49	26.33	25.17	23.73	23.08	21.51	19.93
Black Hills Corporation	33.25	31.68	29.32	28.63	30.31	28.84	27.28	27.53	28.02	27.84	27.19	25.66	23.68	22.29	22.43	21.72
CMS Energy Corporation	17.42	16.15	15.20	14.21	13.34	12.98	12.10	11.92	11.19	11.42	10.94	9.46	10.03	10.53	10.63	9.84
DTE Energy Company	55.21	52.84	50.66	48.88	47.05	44.73	42.78	41.41	39.67	37.96	36.77	35.86	33.02	32.44	31.85	31.36
Entergy Corporation	60.14	58.57	56.78	51.89	55.83	54.00	51.72	50.81	47.53	45.54	42.07	40.71	40.45	37.34	38.26	38.02
NorthWestern Corporation	NA N	IA N	NA	33.22	31.50	26.60	25.09	23.68	22.64	21.86	21.25	21.12	20.84	20.71	19.92	-15.55
OGE Energy Corp.	19.00	18.23	17.49	16.65	16.27	15.30	14.01	13.06	11.73	10.52	10.14	9.16	8.79	7.59	7.14	6.87
Pinnacle West Capital	46.31	44.65	43.12	41.30	39.50	38.07	36.20	34.98	33.86	32.69	34.16	35.15	34.48	34.58	32.14	30.97
PNM Resources, Inc.	23.71	22.69	21.75	20.78	21.61	21.01	20.19	19.76	17.73	19.03	19.03	22.03	22.24	18.89	18.19	17.84
Portland General Electric Company	28.84	27.49	26.38	25.43	24.43	23.29	22.87	22.07	21.14	20.50	21.64	21.05	19.58	19.15	29.91	27.69
Xcel Energy	23.90	22.98	22.08	20.89	20.20	19.21	18.19	17.44	16.76	15.92	15.35	14.70	14.28	13.37	12.99	12.95

	10-Year Historical	5-Year Historcal	3-Year Projected
Alliant Energy	4.35%	4.01%	6.13%
Ameren Corp.	-0.19%	-3.22%	3.12%
American Electric Power	5.41%	4.79%	5.00%
Black Hills Corporation	2.60%	1.12%	5.11%
CMS Energy Corporation	3.24%	3.85%	7.02%
DTE Energy Company	4.37%	4.22%	4.14%
Entergy Corporation	3.20%	3.66%	5.04%
NorthWestern Corporation	14.79%	6.79%	NA
OGE Energy Corp.	8.74%	8.28%	4.49%
Pinnacle West Capital	2.41%	3.37%	3.89%
PNM Resources, Inc.	1.27%	2.59%	4.50%
Portland General Electric Company	-0.06%	2.94%	4.29%
Xcel Energy	4.77%	4.66%	4.60%
Average	4.22%	3.62%	4.78%
Pure Play Average	3.82%	3.13%	4.79%
2014 Refined Proxy Group Average	2.84%	3.02%	4.74%

Ten-Year Dividends Per Share, Earnings Per Share & Book Value Per Share Growth Rates for the Comparable Companies

		10-Year Annual Compo	und Growth Rates			
		-		Average of		
				10 Year		
				Annual		
				Compound		
Company Name	DPS	EPS	BVPS	Growth Rates		
Alliant Energy	7.17%	9.90%	4.35%	7.14%		
Ameren Corp.	-4.39%	-2.71%	-0.19%	-2.43%		
American Electric Power	3.21%	3.74%	5.41%	4.12%		
Black Hills Corporation	2.37%	0.42%	2.60%	1.79%		
CMS Energy Corporation	NM	NM	3.24%	3.24%		
DTE Energy Company	2.76%	3.87%	4.37%	3.66%		
Entergy Corporation	5.85%	-3.73%	3.20%	1.77%		
NorthWestern Corporation	17.56%	NM	14.79%	16.17%		
OGE Energy Corp.	3.64%	7.57%	8.74%	6.65%		
Pinnacle West Capital	2.47%	3.76%	2.41%	2.88%		
PNM Resources, Inc.	0.89%	-1.63%	1.27%	0.18%		
Portland General Electric Company	NA	NM	-0.06%	-0.06%		
Xcel Energy	4.05%	4.35%	4.77%	4.39%		
Average	4.14%	2.55%	4.22%	3.81%		
Pure Play Average	4.63%	2.74%	3.82%	3.73%		
2014 Refined Proxy Group Average	2.31%	3.04%	2.84%	2.73%		

Source: SNL Financial.

Five-Year Dividends Per Share, Earnings Per Share & Book Value Per Share Growth Rates for the Comparable Companies

		- 5-Year Annual Compo	and Growth Rates		
		-		Average of	
				5 Year	
				Annual	
				Compound	
Company Name	DPS	EPS	BVPS	Growth Rates	
Alliant Energy	6.44%	10.50%	4.01%	6.99%	
Ameren Corp.	-2.84%	2.09%	-3.22%	-1.32%	
American Electric Power	4.20%	2.09%	4.79%	3.69%	
Black Hills Corporation	1.99%	16.53%	1.12%	6.54%	
CMS Energy Corporation	16.49%	8.21%	3.85%	9.52%	
DTE Energy Company	4.80%	4.82%	4.22%	4.61%	
Entergy Corporation	1.55%	-15.83%	3.66%	-3.54%	
NorthWestern Corporation	4.63%	7.82%	6.79%	6.41%	
OGE Energy Corp.	5.87%	5.28%	8.28%	6.48%	
Pinnacle West Capital	2.10%	7.05%	3.37%	4.17%	
PNM Resources, Inc.	7.04%	NM	2.59%	4.81%	
Portland General Electric Company	2.37%	5.32%	2.94%	3.55%	
Xcel Energy	4.24%	5.12%	4.66%	4.67%	
Average	4.53%	4.92%	3.62%	4.35%	
Pure Play Average	5.06%	6.59%	3.13%	4.92%	
2014 Refined Proxy Group Average	4.98%	5.65%	3.02%	4.55%	

Source: SNL Financial.

Historical and Projected Growth Rates for the Comparable Electric Utility Companies

	(1)	(2)	(3)
	10-Year	5-Year	Projected
	Historical	Hisotrical	5-Year
	Growth Rate	Growth Rate	EPS Growth
	(DPS, EPS and	(DPS, EPS and	FactSet
Company Name	BVPS)	BVPS)	(Mean) (%)
Alliant Energy	7.14%	6.99%	7.15%
Ameren Corp.	-2.43%	-1.32%	6.95%
American Electric Power	4.12%	3.69%	3.91%
Black Hills Corporation	1.79%	6.54%	6.48%
CMS Energy Corporation	3.24%	9.52%	6.27%
DTE Energy Company	3.66%	4.61%	5.22%
Entergy Corporation	1.77%	-3.54%	0.47%
NorthWestern Corporation	16.17%	6.41%	5.00%
OGE Energy Corp.	6.65%	6.48%	4.00%
Pinnacle West Capital	2.88%	4.17%	4.20%
PNM Resources, Inc.	0.18%	4.81%	6.95%
Portland General Electric Company	-0.06%	3.55%	6.15%
Xcel Energy	4.39%	4.67%	5.00%
Average	3.81%	4.35%	5.21%
Pure Play Average	3.94%	4.85%	5.96%
2014 Refined Proxy Group Average	2.57%	4.52%	5.76%

Sources: Column 1 = Schedule 10-4

Column 2 =Schedule 10-5.

Column 3 = SNL Financial

Constant-Growth Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)
		Average	
	Expected	3-Month	Projected
	Annual	Stock	Dividend
Company Name	Dividend	Price	Yield
Alliant Energy	\$1.21	\$37.098	3.26%
Ameren Corp.	\$1.78	\$49.160	3.62%
American Electric Power	\$2.31	\$65.444	3.53%
Black Hills Corporation	\$1.72	\$60.285	2.85%
CMS Energy Corporation	\$1.28	\$42.011	3.06%
DTE Energy Company	\$3.08	\$90.870	3.39%
Entergy Corporation	\$3.48	\$76.743	4.54%
NorthWestern Corporation	\$2.06	\$59.209	3.47%
OGE Energy Corp.	\$1.16	\$29.945	3.86%
Pinnacle West Capital	\$2.61	\$74.558	3.50%
PNM Resources, Inc.	\$0.94	\$32.871	2.86%
Portland General Electric Company	\$1.30	\$40.803	3.19%
Xcel Energy	\$1.40	\$41.381	3.39%
Average			3.42%
Pure Play Average			3.29%
2014 Refined Proxy Group Average			3.31%
	Proposed Div	idend Yield:	3.35%

Proposed Range of Growth: 3.00% - 5.00%

Estimated Proxy Cost of Common Equity: 6.35% - 8.35%

Column 1 = Expected Annual Dividend based on a weighted average of the company's 2016 fiscal year Notes: and 2017 fiscal year FactSet projected dividends per share according to SNL Financial.

Column 3 = (Column 1 / Column 2).

Sources: Columns 1 and 2 = SNL Financial

Multiple-Stage Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Annualized	Growth			Growth			Growth	
	Quarterly	Years			Years			in	Cost of
Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	Equity
Alliant Energy	\$1.18	7.15%	6.46%	5.77%	5.08%	4.38%	3.69%	3.00%	7.24%
Ameren Corp.	\$1.70	6.95%	6.29%	5.63%	4.98%	4.32%	3.66%	3.00%	7.56%
American Electric Power	\$2.24	3.91%	3.76%	3.61%	3.46%	3.30%	3.15%	3.00%	6.74%
Black Hills Corporation	\$1.68	6.48%	5.90%	5.32%	4.74%	4.16%	3.58%	3.00%	6.59%
CMS Energy Corporation	\$1.24	6.27%	5.73%	5.18%	4.64%	4.09%	3.55%	3.00%	6.75%
DTE Energy Company	\$2.92	5.22%	4.85%	4.48%	4.11%	3.74%	3.37%	3.00%	6.81%
Entergy Corporation	\$3.40	0.47%	0.89%	1.31%	1.74%	2.16%	2.58%	3.00%	6.87%
NorthWestern Corporation	\$2.00	5.00%	4.67%	4.33%	4.00%	3.67%	3.33%	3.00%	6.95%
OGE Energy Corp.	\$1.10	4.00%	3.83%	3.67%	3.50%	3.33%	3.17%	3.00%	7.03%
Pinnacle West Capital	\$2.50	4.20%	4.00%	3.80%	3.60%	3.40%	3.20%	3.00%	6.73%
PNM Resources, Inc.	\$0.88	6.95%	6.29%	5.63%	4.98%	4.32%	3.66%	3.00%	6.55%
Portland General Electric Compar	\$1.28	6.15%	5.63%	5.10%	4.58%	4.05%	3.53%	3.00%	6.95%
Xcel Energy	\$1.36	5.00%	4.67%	4.33%	4.00%	3.67%	3.33%	3.00%	6.85%
								Average	6.89%
							Pure	Play Average	6.95%

Sources: Column 1 = SNL Financial

Column 2 = Schedule 10-6

Column 8 = See range of averages from Schedules 13-1 through Schedule 13-4.

6.91%

2014 Refined Proxy Group Average

Multiple-Stage Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Annualized	Growth			Growth			Growth	
	Quarterly	Years			Years			in	Cost of
Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	Equity
Alliant Energy	\$1.18	7.15%	6.54%	5.93%	5.33%	4.72%	4.11%	3.50%	7.63%
Ameren Corp.	\$1.70	6.95%	6.38%	5.80%	5.23%	4.65%	4.08%	3.50%	7.94%
American Electric Power	\$2.24	3.91%	3.84%	3.77%	3.71%	3.64%	3.57%	3.50%	7.13%
Black Hills Corporation	\$1.68	6.48%	5.98%	5.49%	4.99%	4.49%	4.00%	3.50%	6.99%
CMS Energy Corporation	\$1.24	6.27%	5.81%	5.35%	4.89%	4.42%	3.96%	3.50%	7.15%
DTE Energy Company	\$2.92	5.22%	4.93%	4.65%	4.36%	4.07%	3.79%	3.50%	7.21%
Entergy Corporation	\$3.40	0.47%	0.98%	1.48%	1.99%	2.49%	3.00%	3.50%	7.27%
NorthWestern Corporation	\$2.00	5.00%	4.75%	4.50%	4.25%	4.00%	3.75%	3.50%	7.35%
OGE Energy Corp.	\$1.10	4.00%	3.92%	3.83%	3.75%	3.67%	3.58%	3.50%	7.42%
Pinnacle West Capital	\$2.50	4.20%	4.08%	3.97%	3.85%	3.73%	3.62%	3.50%	7.13%
PNM Resources, Inc.	\$0.88	6.95%	6.38%	5.80%	5.23%	4.65%	4.08%	3.50%	6.96%
Portland General Electric Company	\$1.28	6.15%	5.71%	5.27%	4.83%	4.38%	3.94%	3.50%	7.34%
Xcel Energy	\$1.36	5.00%	4.75%	4.50%	4.25%	4.00%	3.75%	3.50%	7.24%
								Average	7.29%
							Pure	Play Average	7.34%

Sources: Column 1 = SNL Financial.

Column 2 = Schedule 10-6

Column 8 = See range of averages from Schedules 13-1 through Schedule 13-4.

7.30%

2014 Refined Proxy Group Average

Multiple-Stage Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Annualized	Growth			Growth			Growth	
	Quarterly	Years			Years			in	Cost of
Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	Equity
Alliant Energy	\$1.18	7.15%	6.63%	6.10%	5.58%	5.05%	4.53%	4.00%	8.02%
Ameren Corp.	\$1.70	6.95%	6.46%	5.97%	5.48%	4.98%	4.49%	4.00%	8.33%
American Electric Power	\$2.24	3.91%	3.93%	3.94%	3.96%	3.97%	3.99%	4.00%	7.53%
Black Hills Corporation	\$1.68	6.48%	6.07%	5.65%	5.24%	4.83%	4.41%	4.00%	7.39%
CMS Energy Corporation	\$1.24	6.27%	5.89%	5.51%	5.14%	4.76%	4.38%	4.00%	7.55%
DTE Energy Company	\$2.92	5.22%	5.02%	4.81%	4.61%	4.41%	4.20%	4.00%	7.61%
Entergy Corporation	\$3.40	0.47%	1.06%	1.65%	2.24%	2.82%	3.41%	4.00%	7.66%
NorthWestern Corporation	\$2.00	5.00%	4.83%	4.67%	4.50%	4.33%	4.17%	4.00%	7.74%
OGE Energy Corp.	\$1.10	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	7.82%
Pinnacle West Capital	\$2.50	4.20%	4.17%	4.13%	4.10%	4.07%	4.03%	4.00%	7.53%
PNM Resources, Inc.	\$0.88	6.95%	6.46%	5.97%	5.48%	4.98%	4.49%	4.00%	7.36%
Portland General Electric Company	\$1.28	6.15%	5.79%	5.43%	5.08%	4.72%	4.36%	4.00%	7.74%
Xcel Energy	\$1.36	5.00%	4.83%	4.67%	4.50%	4.33%	4.17%	4.00%	7.64%
								Average	7.69%

Pure Play Average 7.74% 2014 Refined Proxy Group Average 7.70%

Sources: Column 1 = SNL Financial.

Column 2 = Schedule 10-6

Column 8 = See range of averages from Schedules 13-1 through Schedule 13-4.

Multiple-Stage Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Annualized	Growth			Growth			Growth	
	Quarterly	Years			Years			in	Cost of
Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	Equity
Alliant Energy	\$1.18	7.15%	6.69%	6.23%	5.78%	5.32%	4.86%	4.40%	8.33%
Ameren Corp.	\$1.70	6.95%	6.53%	6.10%	5.68%	5.25%	4.83%	4.40%	8.63%
American Electric Power	\$2.24	3.91%	3.99%	4.07%	4.16%	4.24%	4.32%	4.40%	7.86%
Black Hills Corporation	\$1.68	6.48%	6.13%	5.79%	5.44%	5.09%	4.75%	4.40%	7.72%
CMS Energy Corporation	\$1.24	6.27%	5.96%	5.65%	5.34%	5.02%	4.71%	4.40%	7.87%
DTE Energy Company	\$2.92	5.22%	5.08%	4.95%	4.81%	4.67%	4.54%	4.40%	7.93%
Entergy Corporation	\$3.40	0.47%	1.13%	1.78%	2.44%	3.09%	3.75%	4.40%	7.98%
NorthWestern Corporation	\$2.00	5.00%	4.90%	4.80%	4.70%	4.60%	4.50%	4.40%	8.06%
OGE Energy Corp.	\$1.10	4.00%	4.07%	4.13%	4.20%	4.27%	4.33%	4.40%	8.13%
Pinnacle West Capital	\$2.50	4.20%	4.23%	4.27%	4.30%	4.33%	4.37%	4.40%	7.85%
PNM Resources, Inc.	\$0.88	6.95%	6.53%	6.10%	5.68%	5.25%	4.83%	4.40%	7.69%
Portland General Electric Compan	\$1.28	6.15%	5.86%	5.57%	5.28%	4.98%	4.69%	4.40%	8.06%
Xcel Energy	\$1.36	5.00%	4.90%	4.80%	4.70%	4.60%	4.50%	4.40%	7.96%
								Average _	8.01%

Pure Play Average 8.06% 2014 Refined Proxy Group Average 8.02%

Sources: Column 1 = SNL Financial. Column 2 = Schedule 10-6

Column 8 = Compounding the expected GDP price deflator of 2% with the long term real GDP growth of 2.35% from the 2014 cases.

Multiple-Stage Discounted Cash Flow (DCF) Estimated Costs of Common Equity for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Annualized	Growth			Growth			Growth	
	Quarterly	Years			Years			in	Cost of
Company Name	Dividend	1-5	6	7	8	9	10	Perpetuity	Equity
Alliant Energy	\$1.18	7.15%	6.64%	6.13%	5.63%	5.12%	4.61%	4.10%	8.10%
Ameren Corp.	\$1.70	6.95%	6.48%	6.00%	5.53%	5.05%	4.58%	4.10%	8.40%
American Electric Power	\$2.24	3.91%	3.94%	3.97%	4.01%	4.04%	4.07%	4.10%	7.62%
Black Hills Corporation	\$1.68	6.48%	6.08%	5.69%	5.29%	4.89%	4.50%	4.10%	7.48%
CMS Energy Corporation	\$1.24	6.27%	5.91%	5.55%	5.19%	4.82%	4.46%	4.10%	7.63%
DTE Energy Company	\$2.92	5.22%	5.03%	4.85%	4.66%	4.47%	4.29%	4.10%	7.69%
Entergy Corporation	\$3.40	0.47%	1.08%	1.68%	2.29%	2.89%	3.50%	4.10%	7.74%
NorthWestern Corporation	\$2.00	5.00%	4.85%	4.70%	4.55%	4.40%	4.25%	4.10%	7.82%
OGE Energy Corp.	\$1.10	4.00%	4.02%	4.03%	4.05%	4.07%	4.08%	4.10%	7.90%
Pinnacle West Capital	\$2.50	4.20%	4.18%	4.17%	4.15%	4.13%	4.12%	4.10%	7.61%
PNM Resources, Inc.	\$0.88	6.95%	6.48%	6.00%	5.53%	5.05%	4.58%	4.10%	7.44%
Portland General Electric Company	\$1.28	6.15%	5.81%	5.47%	5.13%	4.78%	4.44%	4.10%	7.82%
Xcel Energy	\$1.36	5.00%	4.85%	4.70%	4.55%	4.40%	4.25%	4.10%	7.72%
								Average	7.77%

Pure Play Average 7.82% 2014 Refined Proxy Group Average 7.78%

Sources: Column 1 = SNL Financial.

Column 2 = Schedule 10-6

Column 8 = Compounding the expected GDP price deflator of 2% with the long term real GDP growth of 2.025%.

Central Region Electric Utility Proxy Group EPS

Ten-Year Compound Growth Rate Averages (1968-1999)

	Dayton	Detroit					Okla. Gas &		WPS Resources/	WI Energy/	
Years	P & L/ DPL	Edison/ DTE	Empiro	IPALCO	Kansas City P & L	Northern States Power		SJL&P	Wisconsin Public Serv.	WI Electric Power	Average
•			Empire				Energy Corp.				Average
1968-70 to 1978-80	-1.74%	-0.57%	0.24%	4.13%	1.77%	4.13%	1.16%	1.40%	6.23%	6.32%	2.31%
1969-71 to 1979-81	-0.21%	0.05%	-0.64%	4.30%	2.62%	4.02%	0.48%	1.66%	6.60%	6.79%	2.57%
1970-72 to 1980-82	0.98%	-0.46%	0.41%	3.14%	3.24%	4.48%	1.88%	2.66%	6.41%	7.24%	3.00%
1971-73 to 1981-83	2.72%	0.53%	2.64%	2.87%	4.83%	6.11%	2.90%	4.03%	6.92%	7.77%	4.13%
1972-74 to 1982-84	3.71%	1.48%	5.33%	4.69%	6.44%	7.64%	3.02%	5.65%	7.78%	8.25%	5.40%
1973-75 to 1983-85	4.19%	3.60%	6.21%	5.91%	7.60%	8.08%	2.58%	6.94%	8.54%	9.39%	6.30%
1974-76 to 1984-86	4.19%	4.41%	6.50%	5.86%	5.75%	8.03%	2.81%	7.89%	7.98%	9.60%	6.30%
1975-77 to 1985-87	5.10%	4.69%	5.70%	4.19%	4.26%	7.59%	2.90%	8.10%	6.81%	9.18%	5.85%
1976-78 to 1986-88	5.84%	4.29%	5.68%	5.40%	3.02%	7.24%	3.92%	7.95%	5.98%	8.86%	5.82%
1977-79 to 1987-89	6.16%	3.93%	5.49%	5.09%	4.12%	6.73%	5.22%	8.49%	5.08%	8.96%	5.93%
1978-80 to 1988-90	5.61%	4.41%	5.52%	5.11%	3.09%	6.07%	6.65%	8.20%	4.35%	9.08%	5.81%
1979-81 to 1989-91	3.75%	5.35%	6.06%	4.67%	1.90%	5.45%	6.56%	7.68%	3.70%	8.07%	5.32%
1980-82 to 1990-92	2.46%	6.83%	4.65%	4.43%	0.31%	3.15%	3.63%	5.76%	3.91%	6.16%	4.13%
1981-83 to 1991-93	1.00%	6.06%	2.56%	3.11%	-1.01%	1.58%	1.58%	3.37%	3.45%	4.33%	2.60%
1982-84 to 1992-94	1.31%	4.75%	-0.16%	1.44%	-2.03%	0.83%	0.71%	2.88%	2.19%	2.64%	1.46%
1983-85 to 1993-95	1.36%	2.97%	-1.18%	1.78%	-2.21%	1.85%	1.81%	2.46%	1.03%	2.58%	1.24%
1984-86 to 1994-96	1.71%	1.79%	-1.39%	3.31%	-1.08%	2.26%	2.15%	2.56%	0.20%	2.27%	1.38%
1985-87 to 1995-97	1.65%	0.64%	-1.47%	4.22%	0.35%	1.90%	2.19%	1.90%	0.12%	-0.46%	1.10%
1986-88 to 1996-98	2.28%	0.57%	-0.92%	4.59%	1.57%	1.50%	2.11%	1.34%	-0.86%	-2.24%	0.99%
1987-89 to 1997-99	2.62%	1.08%	-0.46%	5.06%	0.15%	0.40%	2.36%	0.49%	-0.38%	-3.07%	0.83%
Average	2.73%	2.82%	2.54%	4.17%	2.23%	4.45%	2.83%	4.57%	4.30%	5.59%	3.62%

Central Region Electric Utility Proxy Group DPS

Ten-Year Compound Growth Rate Averages (1968-1999)

	Dayton	Detroit					Okla. Gas &		WPS Resources/	WI Energy/	
	P & L/	Edison/			Kansas City	Northern States	Electric/ OGE		Wisconsin	WI Electric	
Years	DPL	DTE	Empire	IPALCO	P&L	Power	Energy Corp.	SJL&P	Public Serv.	Power	Average
1968-70 to 1978-80	0.90%	1.17%	2.45%	3.52%	3.34%	3.37%	3.79%	1.89%	4.36%	5.46%	3.03%
1969-71 to 1979-81	0.87%	1.43%	2.17%	4.15%	3.03%	3.76%	3.52%	1.89%	4.69%	5.70%	3.12%
1970-72 to 1980-82	1.04%	1.59%	1.90%	4.69%	3.17%	4.02%	3.32%	2.01%	5.13%	5.98%	3.28%
1971-73 to 1981-83	1.41%	1.64%	1.98%	4.92%	3.56%	4.39%	3.35%	2.28%	5.64%	6.23%	3.54%
1972-74 to 1982-84	1.70%	1.60%	2.32%	4.95%	4.13%	4.88%	3.49%	2.82%	6.18%	6.37%	3.84%
1973-75 to 1983-85	1.89%	1.48%	2.86%	5.03%	4.45%	5.60%	3.62%	3.50%	6.72%	6.52%	4.17%
1974-76 to 1984-86	1.89%	1.48%	3.31%	5.19%	4.12%	6.31%	3.75%	4.32%	7.18%	6.78%	4.43%
1975-77 to 1985-87	2.01%	1.44%	3.77%	5.73%	3.40%	6.78%	3.91%	4.97%	7.38%	7.08%	4.65%
1976-78 to 1986-88	2.26%	1.28%	4.14%	5.65%	2.96%	6.95%	4.04%	5.36%	7.30%	7.34%	4.73%
1977-79 to 1987-89	2.56%	0.94%	4.50%	5.49%	3.16%	6.96%	4.14%	5.72%	7.00%	7.51%	4.80%
1978-80 to 1988-90	2.83%	0.86%	4.81%	4.96%	3.58%	6.86%	4.27%	6.10%	6.66%	7.65%	4.86%
1979-81 to 1989-91	2.92%	0.99%	5.08%	4.80%	3.77%	6.72%	4.33%	6.53%	6.26%	7.68%	4.91%
1980-82 to 1990-92	2.83%	1.38%	5.27%	4.53%	3.78%	6.54%	4.30%	6.63%	5.83%	7.59%	4.87%
1981-83 to 1991-93	2.59%	1.70%	5.18%	4.24%	3.47%	6.22%	4.02%	6.49%	5.30%	7.29%	4.65%
1982-84 to 1992-94	2.59%	1.93%	4.80%	3.96%	3.02%	5.75%	3.64%	6.03%	4.65%	6.89%	4.33%
1983-85 to 1993-95	2.89%	2.06%	4.22%	3.75%	2.72%	5.14%	3.21%	5.50%	3.88%	6.44%	3.98%
1984-86 to 1994-96	3.41%	2.06%	3.58%	3.69%	3.14%	4.49%	2.77%	4.90%	3.15%	6.00%	3.72%
1985-87 to 1995-97	3.79%	2.06%	2.92%	1.92%	3.74%	3.91%	2.33%	4.42%	2.63%	5.54%	3.33%
1986-88 to 1996-98	3.95%	2.06%	2.30%	0.76%	3.99%	3.46%	1.87%	3.92%	2.39%	5.00%	2.97%
1987-89 to 1997-99	3.81%	2.06%	1.74%	-0.41%	3.52%	3.11%	1.42%	3.37%	2.31%	4.36%	2.53%
Average	2.41%	1.56%	3.46%	4.08%	3.50%	5.26%	3.46%	4.43%	5.23%	6.47%	3.99%

Central Region Electric Utility Proxy Group BVPS Ten-Year Compound Growth Rate Averages (1968-1999)

	Dayton	Detroit					Okla. Gas &		WPS Resources/	WI Energy/	
	P & L/	Edison/			Kansas City	Northern States	Electric/ OGE		Wisconsin	WI Electric	
Years	DPL	DTE	Empire	IPALCO	P&L	Power	Energy Corp.	SJL&P	Public Serv.	Power	Average
1968-70 to 1978-80	1.40%	0.04%	2.37%	5.21%	1.88%	4.34%	5.76%	1.28%	4.13%	4.03%	3.05%
1969-71 to 1979-81	0.84%	-0.35%	1.93%	4.93%	1.51%	4.19%	4.58%	1.15%	4.37%	3.71%	2.69%
1970-72 to 1980-82	0.28%	-0.88%	1.63%	4.43%	1.19%	4.15%	3.83%	1.13%	4.50%	3.84%	2.41%
1971-73 to 1981-83	0.16%	-1.30%	1.58%	3.84%	1.20%	4.31%	3.00%	1.31%	4.57%	4.09%	2.27%
1972-74 to 1982-84	0.27%	-1.51%	1.89%	3.77%	1.35%	4.72%	2.66%	1.65%	4.89%	4.49%	2.42%
1973-75 to 1983-85	0.25%	-1.27%	2.32%	3.99%	1.88%	5.18%	2.33%	2.36%	5.27%	5.02%	2.73%
1974-76 to 1984-86	0.30%	-0.77%	2.82%	4.47%	2.26%	5.56%	2.43%	3.27%	5.56%	5.52%	3.14%
1975-77 to 1985-87	0.27%	-0.18%	3.17%	4.63%	2.54%	5.73%	2.33%	4.20%	5.57%	5.86%	3.41%
1976-78 to 1986-88	0.66%	-0.61%	3.51%	4.82%	2.32%	5.80%	2.33%	4.89%	5.42%	6.11%	3.53%
1977-79 to 1987-89	1.13%	-1.05%	3.79%	4.77%	2.28%	5.80%	2.30%	5.41%	5.16%	6.38%	3.60%
1978-80 to 1988-90	1.80%	-1.34%	4.17%	4.79%	2.28%	5.74%	2.57%	5.69%	4.77%	6.69%	3.72%
1979-81 to 1989-91	2.31%	-0.30%	4.59%	4.84%	2.44%	5.65%	2.92%	5.82%	4.27%	6.91%	3.95%
1980-82 to 1990-92	2.29%	0.97%	4.88%	4.92%	2.41%	5.43%	2.96%	5.72%	3.96%	6.94%	4.05%
1981-83 to 1991-93	1.97%	2.03%	4.82%	4.84%	2.10%	5.14%	2.75%	5.41%	3.75%	6.74%	3.95%
1982-84 to 1992-94	1.84%	2.72%	4.36%	4.50%	1.71%	4.77%	2.37%	5.01%	3.57%	6.33%	3.72%
1983-85 to 1993-95	2.33%	2.95%	3.83%	4.15%	1.17%	4.46%	2.16%	4.60%	3.29%	5.91%	3.48%
1984-86 to 1994-96	2.78%	2.82%	3.34%	3.73%	0.78%	4.21%	1.91%	4.27%	2.99%	5.48%	3.23%
1985-87 to 1995-97	3.14%	2.52%	2.92%	2.52%	0.41%	4.01%	1.85%	3.99%	2.77%	4.81%	2.89%
1986-88 to 1996-98	3.26%	3.25%	2.56%	1.45%	0.50%	3.81%	1.86%	3.75%	2.43%	3.99%	2.69%
1987-89 to 1997-99	3.42%	4.16%	2.20%	1.19%	0.42%	3.56%	2.04%	3.47%	2.20%	3.17%	2.58%
Average	1.54%	0.60%	3.13%	4.09%	1.63%	4.83%	2.75%	3.72%	4.17%	5.30%	3.18%

Central Region Electric Utility Proxy Group DPS, EPS, BVPS & GDP

Ten-Year Compound Growth Rate Averages (1968-1999)

DPS		EPS		BVPS		Average	GDP		
	10 yr compound		10 yr compound		10 yr compound	DPS, EPS and		10 yr compound	
Years	growth rate avgs	Years	growth rate avgs	Years	growth rate avgs	BVPS	Years	growth rate avgs	
1968-70 to 1978-80	3.03%	1968-70 to 1978-80	2.31%	1968-70 to 1978-80	3.05%	2.79%	1968-70 to 1978-80	10.05%	
			2.57%						
1969-71 to 1979-81	3.12%	1969-71 to 1979-81		1969-71 to 1979-81	2.69%	2.79%	1969-71 to 1979-81	10.41%	
1970-72 to 1980-82	3.28%	1970-72 to 1980-82	3.00%	1970-72 to 1980-82	2.41%	2.90%	1970-72 to 1980-82	10.42%	
1971-73 to 1981-83	3.54%	1971-73 to 1981-83	4.13%	1971-73 to 1981-83	2.27%	3.32%	1971-73 to 1981-83	10.22%	
1972-74 to 1982-84	3.84%	1972-74 to 1982-84	5.40%	1972-74 to 1982-84	2.42%	3.89%	1972-74 to 1982-84	10.03%	
1973-75 to 1983-85	4.17%	1973-75 to 1983-85	6.30%	1973-75 to 1983-85	2.73%	4.40%	1973-75 to 1983-85	9.96%	
1974-76 to 1984-86	4.43%	1974-76 to 1984-86	6.30%	1974-76 to 1984-86	3.14%	4.63%	1974-76 to 1984-86	9.77%	
1975-77 to 1985-87	4.65%	1975-77 to 1985-87	5.85%	1975-77 to 1985-87	3.41%	4.64%	1975-77 to 1985-87	9.34%	
1976-78 to 1986-88	4.73%	1976-78 to 1986-88	5.82%	1976-78 to 1986-88	3.53%	4.69%	1976-78 to 1986-88	8.80%	
1977-79 to 1987-89	4.80%	1977-79 to 1987-89	5.93%	1977-79 to 1987-89	3.60%	4.77%	1977-79 to 1987-89	8.32%	
1978-80 to 1988-90	4.86%	1978-80 to 1988-90	5.81%	1978-80 to 1988-90	3.72%	4.79%	1978-80 to 1988-90	7.92%	
1979-81 to 1989-91	4.91%	1979-81 to 1989-91	5.32%	1979-81 to 1989-91	3.95%	4.72%	1979-81 to 1989-91	7.38%	
1980-82 to 1990-92	4.87%	1980-82 to 1990-92	4.13%	1980-82 to 1990-92	4.05%	4.35%	1980-82 to 1990-92	7.06%	
1981-83 to 1991-93	4.65%	1981-83 to 1991-93	2.60%	1981-83 to 1991-93	3.95%	3.74%	1981-83 to 1991-93	6.72%	
1982-84 to 1992-94	4.33%	1982-84 to 1992-94	1.46%	1982-84 to 1992-94	3.72%	3.17%	1982-84 to 1992-94	6.49%	
1983-85 to 1993-95	3.98%	1983-85 to 1993-95	1.24%	1983-85 to 1993-95	3.48%	2.90%	1983-85 to 1993-95	6.12%	
1984-86 to 1994-96	3.72%	1984-86 to 1994-96	1.38%	1984-86 to 1994-96	3.23%	2.78%	1984-86 to 1994-96	5.89%	
1985-87 to 1995-97	3.33%	1985-87 to 1995-97	1.10%	1985-87 to 1995-97	2.89%	2.44%	1985-87 to 1995-97	5.81%	
1986-88 to 1996-98	2.97%	1986-88 to 1996-98	0.99%	1986-88 to 1996-98	2.69%	2.22%	1986-88 to 1996-98	5.73%	
1987-89 to 1997-99	2.53%	1987-89 to 1997-99	0.83%	1987-89 to 1997-99	2.58%	1.98%	1987-89 to 1997-99	5.63%	
Average	3.99%	Average	3.62%	Average	3.18%		Average	8.10%	

Average of 10-year Rolling Averages EPS, DPS and BVPS

3.59%

Sources: Value Line Investment Survey and St. Louis Federal Reserve Website

Multi Stage DCF Cost of Equity Comparisons

Refined Proxy Group from 2014 Electric Rate Cases (less Great Plains Energy, Southern Company and Westar Energy due to pending acquisitions/mergers)

3.5% Perpetual Growth Rate

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	GMO	2016	2014	2014	2014
	ER-2016-0156	Empire Case	UE Rate Case	Empire Rate Case	KCPL Rate Case
Alliant Energy	7.63%	7.82%	7.51%	7.20%	7.51%
Ameren Corp.	7.94%	8.19%	9.32%	8.84%	8.26%
American Electric Power	7.13%	7.94%	8.09%	7.72%	7.57%
CMS Energy Corp.	7.15%	7.76%	7.83%	7.47%	7.39%
DTE Energy Company	7.21%	7.66%	7.92%	7.56%	7.31%
Pinnacle West Capital	7.13%	7.80%	8.01%	7.58%	7.45%
PNM Resources, Inc.	6.96%	7.15%	7.36%	7.23%	6.94%
Portland General Electric Company	7.34%	7.14%	8.03%	7.66%	7.08%
Xcel Energy	7.24%	7.72%	7.84%	7.55%	7.60%
Average	7.30%	7.69%	7.99%	7.65%	7.46%

Refined Proxy Group from 2014 Electric Rate Cases (less Great Plains Energy, Southern Company and Westar Energy due to pending acquisitions/mergers) GDP for Perpetual Growth Rate

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	GMO - 4.4%	GMO - 4.1%	2016	2014	2014	2014				
	ER-2016-0156	ER-2016-0156	Empire Case	UE Rate Case	Empire Rate Case	KCPL Rate Case				
Alliant Energy	8.33%	8.10%	8.51%	8.22%	7.92%	8.22%				
Ameren Corp.	8.63%	8.40%	8.88%	9.96%	9.50%	8.94%				
American Electric Power	7.86%	7.62%	8.63%	8.77%	8.42%	8.28%				
CMS Energy Corp.	7.87%	7.63%	8.46%	8.53%	8.18%	8.10%				
DTE Energy Company	7.93%	7.69%	8.36%	8.62%	8.26%	8.02%				
Pinnacle West Capital	7.85%	7.61%	8.50%	8.70%	8.28%	8.17%				
PNM Resources, Inc.	7.85%	7.44%	7.87%	8.08%	7.95%	7.67%				
Portland General Electric Company	8.06%	7.82%	7.86%	8.72%	8.36%	7.81%				
Xcel Energy	7.96%	7.72%	8.42%	8.54%	8.25%	8.31%				
Average	8.04%	7.78%	8.39%	8.68%	8.35%	8.17%				

Capital Asset Pricing Model (CAPM) Costs of Common Equity Estimates Based on Historical Return Differences Between Common Stocks and Long-Term U.S. Treasuries for the Comparable Electric Utility Companies

	(1)	(2)	(3)	(4)	(5)	(6)
			Arithmetic	Geometric	Arithmetic	Geometric
			Average	Average	CAPM	CAPM
			Market	Market	Cost of	Cost of
	Risk		Risk	Risk	Common	Common
	Free		Premium	Premium	Equity	Equity
Company Name	Rate	Beta	(1926-2015)	(1926-2015)	(1926-2015)	(1926-2015)
Alliant Energy	2.57%	0.69	6.00%	4.40%	6.72%	5.61%
Ameren Corp.	2.57%	0.68	6.00%	4.40%	6.64%	5.55%
American Electric Power	2.57%	0.67	6.00%	4.40%	6.60%	5.52%
Black Hills Corporation	2.57%	0.83	6.00%	4.40%	7.52%	6.20%
CMS Energy Corporation	2.57%	0.69	6.00%	4.40%	6.68%	5.58%
DTE Energy Company	2.57%	0.68	6.00%	4.40%	6.64%	5.55%
Entergy Corporation	2.57%	0.66	6.00%	4.40%	6.56%	5.49%
NorthWestern Corporation	2.57%	0.70	6.00%	4.40%	6.76%	5.64%
OGE Energy Corp.	2.57%	0.84	6.00%	4.40%	7.60%	6.26%
Pinnacle West Capital	2.57%	0.71	6.00%	4.40%	6.80%	5.67%
PNM Resources, Inc.	2.57%	0.81	6.00%	4.40%	7.40%	6.11%
Portland General Electric Company	2.57%	0.71	6.00%	4.40%	6.80%	5.67%
Xcel Energy	2.57%	0.61	6.00%	4.40%	6.23%	5.26%
Average		0.71			6.85%	5.71%
Pure Play Average		0.70			6.75%	5.64%
2014 Refined Proxy Group Average		0.69			6.72%	5.61%

- Column 1 = The appropriate yield is equal to the average 30-year U.S. Treasury Bond yield for April 2016, May 2016, and June 2016, which was obtained from the St. Louis Federal Reserve website at http://research.stlouisfed.org/fred2/data/GS30.txt
- Column 2 = Beta is a measure of the movement and relative risk of an individual stock to the market as a whole. Staff calculated the unadjusted Beta for each company using an Excel spreadsheet designed specifically to be used with the SNL database market and financial information, then adjusted each Beta using the Blume adjustment formula as used by Value Line: Adjusted Beta = 0.35 + 0.67 * Unadjusted Beta
- Column 3 = The Market Risk Premium represents the expected return from holding the entire market portfolio less the expected return from holding a risk free investment. The appropriate Market Risk Premium for the period 1926 2015 was determined to be 6.00% based on an arithmetic average as shown in the Duff & Phelps 2016 Valuation Handbook: A Guide to the Cost of Capital.
- Column 4 = The Market Risk Premium represents the expected return from holding the entire market portfolio less the expected return from holding a risk free investment. The appropriate Market Risk Premium for the period 1926 2015 was determined to be 4.40% based on a geometric average as shown in the Duff & Phelps 2016 Valuation Handbook: A Guide to the Cost of Capital.

Column 5 = (Column 1 + (Column 2 * Column 3)).

Column 6 = (Column 1 + (Column 2 * Column 4)).

Recommended Allowed Rate of Return as of December 31, 2015 for KCPL Greater Missouri Operations

Allowed Rate of Return Using Common Equity Return of:

	Percentage	Embedded			
Capital Component	of Capital	Cost	8.65%	9.00%	9.35%
Common Equity	49.01%		4.24%	4.41%	4.58%
Preferred Equity	0.52%	4.29%	0.02%	0.02%	0.02%
Long-Term Debt	50.46%	5.41%	2.73%	2.73%	2.73%
Total	100.00%		6.99%	7.16%	7.34%

Notes:

See Schedule 7 for the Capital Structure Ratios.
See Schedule 6-1 for embedded cost of long-term debt.
See Schedule 6-2 for embedded cost of preferred stock.