Exhibit No:	
Issue:	Weather Normalization,
	Customer Annualization,
	Large Volume Rate Shifts
	and Customer Losses
Witness:	F. Jay Cummings
Type of Exhibit:	Direct Testimony
Sponsoring Party:	Missouri Gas Energy, a
	Division of Laclede Gas
	Company
Case No.:	GR-2014-0007
Date Prepared:	September 16, 2013

MISSOURI GAS ENERGY

GR-2014-0007

DIRECT TESTIMONY

OF

F. JAY CUMMINGS

September 16, 2013

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DIRECT TESTIMONY OF F. JAY CUMMINGS

CASE NO. GR-2014-0007

SEPTEMBER 13, 2013

1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- A. My name is F. Jay Cummings. My business address is 3625 North Hall Street,
 Suite 750, Dallas, Texas 75219.
- 4

5 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

- 6 A. I am a Senior Economist with Ruhter & Reynolds, Inc., Consulting Economists.
- 7

8 Q. PLEASE SUMMARIZE YOUR EDUCATION AND EXPERIENCE.

9 A. I have a B.A. degree with a major in economics from Colgate University and a 10 Ph.D. in economics from the University of Virginia. I have more than 28 years of 11 utility regulatory experience gained through private and public sector positions. 12 Since 2001, I have provided regulatory support services to the energy industry as a 13 Senior Economist with Ruhter & Reynolds (2005 - present), an Executive 14 Consultant with R. J. Covington Consulting, LLC (2003 - 2005), and as a Principal 15 with Navigant Consulting, Inc. (2001 - 2003). Prior to Navigant Consulting, I was 16 employed by Southern Union Company for more than 11 years. I joined Southern Union as Southern Union Gas' Director of Rates and Regulatory Affairs and 17 18 became Vice President later that year. When my regulatory responsibilities for 19 Southern Union expanded to include its Missouri properties in 1994, I became Vice President, Pricing and Economic Analysis, a position I held until leaving Southern Union in 2001.

3

1

2

Prior to joining Southern Union, I was employed by the Arizona Corporation
Commission for six years. I held positions as the Utilities Division Assistant
Director (1988 - 1991); Chief, Economics and Research Section (1985 - 1988); and
Chief, Economics and Rates Section (1985). My work with the Arizona
Corporation Commission covered regulation of electric, gas, telecommunications
and water utilities.

10

11 From 1973 through 1985, I was on the economics faculties of George Mason 12 University (1973 - 1975) and the University of Texas at Dallas (1975 - 1985). My 13 teaching and research focused on applied microeconomic analyses, which resulted 14 in professional journal publications and conference and seminar presentations. I have submitted testimony in regulatory proceedings in Arizona, Arkansas, 15 Massachusetts, Missouri, Oklahoma, Texas, and Washington. 16 I have submitted 17 testimony on behalf of Missouri Gas Energy ("MGE" or "Company") in six MGE rate cases before the Missouri Public Service Commission ("Commission").¹ 18

¹ Case Nos. GR-2009-0355, GR-2004-0209, GR-2001-0292, GR-98-140, GR-96-285, and GR-94-318.

1	1. PURPOSE AND SUMMARY OF TESTIMONY							
2								
3	3 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?							
4	А.	I have been retained by MGE to prepare the following volume and revenue						
5		adjustments based on the test year ended April 30, 2013: (1) weather normalization						
6		adjustments for the Large General Service ("LGS") and Large Volume Service						
7		("LVS") classes, (2) customer annualization adjustments for the Residential						
8		("RES"), Small General Service ("SGS"), and LGS classes, and (3) adjustments for						
9		rate shifting from SGS and LGS to LVS and for LVS customer losses.						
10								
11	Q.	HAVE YOU PREVIOUSLY PREPARED THESE TYPES OF TEST YEAR						
12		RATE CASE REVENUE ADJUSTMENTS?						
13	A.	Yes. I have prepared these types of revenue adjustments in prior MGE rate cases						
14		before the Commission and for various gas distribution utilities in a number of rate						
15		cases before state and local regulatory authorities in Arkansas, Oklahoma, and						
16		Texas.						
17								
18	Q.	PLEASE SUMMARIZE YOUR CONCLUSIONS.						
19	А.	The weather normalization adjustments result in the following volume (in Ccf) and						
20		associated revenue adjustments to the test year:						
21		Customer Class <u>Ccf</u> <u>Dollars</u>						
22		LGS 2,975,601 \$377,529						
23		LVS 1,025,050 60,575						
24		The customer annualization adjustment results in the following annual bill count,						
25		volume, and revenue adjustments to the test year:						

1		Annual					
2		Customer ClassBill CountCcfDollars					
3		RES 11,868 n.a. \$319,019					
4		SGS (7,610) n.a. (298,751)					
5		LGS (844) (1,626,790) (274,762)					
6		The LVS rate switching and customer loss adjustments result in the following					
7		annual bill count, volume, and revenue adjustments to the test year for the SGS,					
8		LGS, and LVS classes:					
9		Annual					
10		Customer ClassBill CountCcfDollars					
11		Rate Switching:					
12		SGS (3) n.a. \$(118)					
13		LGS (10) (243,830) (20,690)					
14		LVS 13 336,360 22,713					
15		Customer Losses:					
16		LVS (12) (50) $(10,466)$					
17		LVS-Flex (8) (938,490) (7,977)					
18		The methods used in calculating each of these adjustments are explained in Sections					
19		2, 3, and 4 of my testimony.					
20							
21		2. WEATHER NORMALIZATION					
22							
23	Q.	WHAT IS THE PURPOSE OF THE WEATHER NORMALIZATION					
24		ADJUSTMENT?					
25	A.	The weather normalization adjustment restates test year volumes and associated					
26		volume-dependent revenue for each customer class to reflect volumes and revenue					
27		that would have been experienced if normal weather had occurred during the test					
28		year. If the test year weather is warmer than normal, these adjustments add					
29		volumes and revenues to those recorded in the test year. If the test year weather is					

1		colder than normal, these adjustments reduce test year recorded volumes and
2		revenues.
3		
4		In this case, revenue normalization adjustments are made for the LGS and LVS
5		classes. The LGS and LVS adjustments are developed for each of the three
6		geographic areas MGE serves: Kansas City, St. Joseph, and Joplin.
7		
8		RES and SGS weather normalization adjustments are not required for adjusting test
9		year revenue (used to determine the required revenue deficiency) and for adjusting
10		test year volumes (used to determine volumes to design rates to collect the revenue
11		requirement) because base rates for each of these classes collect non-gas costs
12		through a fixed, non-volume dependent monthly charge.
13		
14	Q.	WHAT MEASURE OF NORMAL WEATHER DO YOU USE FOR THE
15		ADJUSTMENTS?
16	A.	In prior MGE rate cases, the Commission Staff has used National Oceanographic
17		and Atmospheric Administration ("NOAA") 30-year daily normal HDDs, updated
18		each decade. The Staff has used Kansas City International Airport (Station 234358)

- weather data for the weather adjustment calculations for Kansas City and St.
 Joseph, and Springfield Regional Airport (Station 237976) weather data for Joplin
 adjustments. In MGE's last rate case, Case No. GR-2009-0355, annual NOAA
- 22 normals were for the 1971-2000 period.

1		For the purpose of this rate proceeding, I apply the most recently published NOAA
2		30-year normal daily HDDs for the Kansas City International Airport to Kansas
3		City and St. Joseph customers and for the Springfield Regional Airport to Joplin
4		customers to develop the weather adjustments. ² These daily NOAA normals are for
5		the 1981-2010 period. Based on these NOAA daily normals, Kansas City and
6		Springfield weather was warmer than normal for the test year ended April 30, 2013,
7		especially in Springfield.
8		
9		While I do not consider a 30-year period that ended three years ago to be the most
10		appropriate measure of normal weather for ratemaking purposes, it is acceptable to
11		use such a normal for this sole purpose given the relatively modest amount of
12		revenue at issue with these customer classes and our desire to remove the weather
13		normalization period as a contested issue in this rate case.
14		
15	Q.	PLEASE EXPLAIN THE WEATHER NORMALIZATION ADJUSTMENT
16		METHOD.
17	A.	Weather-related volume adjustments for each class and area are based on statistical
18		relationships between bill volumes (measured in Ccfs) and temperatures (measured
19		by HDDs) determined through regression analyses as follows:
20		Ccf/bill = a + b HDD,
21		where a and b are estimated based on the per bill Ccf and HDD data included in the
22		regression. The estimated HDD coefficient, <i>i.e.</i> , b, provides the measure of weather

² The NOAA daily normal HDDs are available on NOAA's website. The applicable Kansas City and Springfield data are available at http://www1.ncdc.noaa.gov/pub/orders/cdo/185172.csv (accessed on August 2, 2013).

1 sensitivity, namely, the change in per bill Ccf usage due to each HDD change. The 2 regression results are considered reliable, *i.e.*, statistically significant, if HDD 3 variations explain at least 60 percent of the variation in per bill Ccf usage and if the HDD coefficient is statistically significant with at least a 90 percent probability.³ 4 5 Any regression that meets these criteria produces reliable, statistically significant 6 results and is included in the weather adjustment calculation. Any regression that 7 does not meet these criteria is excluded from the weather adjustment calculation. 8 9 Based on the weather sensitive regressions results, differences between the per bill 10 volumes statistically explained with normal HDDs and per bill volumes explained 11 with actual HDDs are multiplied by the number of bills in the class in the applicable 12 time period to determine the volume adjustments due to abnormal weather. These 13 volume adjustments are priced at current rates to arrive at the associated test year 14 revenue adjustments. Because weather over the course of the test year was warmer 15 than the measure of normal weather used for the weather adjustments in this rate 16 case, the adjustments result in additions to test year volumes and revenue for the 17 LGS and LVS classes. 18 19 Q. PLEASE EXPLAIN THE CALCULATION OF THE LARGE GENERAL 20 SERVICE WEATHER ADJUSTMENT. 21 For the LGS class, separate statistical relationships are developed for the test year A.

for each billing cycle in each of three geographic areas (Kansas City, St. Joseph,

³ Stated in statistical terms, these conditions require that a regression produce an R^2 of at least 0.60 and a tstatistic for the HDD variable that has a P-value of 0.1 or less.

1		and Joplin). In total, regression analyses are conducted on test year data for 50
2		billing cycles for LGS customers. All 50 of these regressions contained statistically
3		significant results that are included in the weather adjustment calculation. ⁴
4		
5		The total volume adjustments are priced at the current LGS rates to determine the
6		test year revenue adjustment. Current LGS rates vary seasonally, with higher Ccf
7		rates in the months of November through March and lower rates in the months of
8		April through October. The resulting volume and revenue adjustment by area and
9		in total are provided in Schedule FJC-1. The seasonal volume differences result
10		from somewhat colder than normal weather in Kansas City in April through
11		October, warmer than normal weather in Kansas City in November through March,
12		and warmer than normal weather in Springfield (applied in Joplin) in both seasons.
13		
14	Q.	PLEASE DESCRIBE THE LARGE VOLUME SERVICE WEATHER
15		NORMALIZATION ADJUSTMENT.
16	A.	The LVS class consists of customers with diverse weather sensitivities, from those
17		with no weather sensitivity, such as certain manufacturing or construction
18		companies, to those that are weather sensitive, such as hotels and educational
19		facilities. Substantial differences in the load responsiveness to HDD changes may
20		also occur among weather-sensitive LVS customers.

⁴ LGS customers are billed through 22 billing cycles in Kansas City, 21 billing cycles in Joplin, and 7 billing cycles in St. Joseph.

1 For these reasons, the LVS weather normalization adjustment is based on individual 2 customer analyses. For each LVS customer, regression analyses are conducted 3 based on the customer's test year usage, *i.e.*, May 2012 – April 2013, and based on the customer's usage over the period January 2008 – April 2013.⁵ Analyses based 4 5 on a longer period of usage are included in the event that the test year usage 6 contains one or two anomalous months that misstates or disguises the customer's 7 weather sensitivity. For each customer who is weather sensitive, the weather 8 adjustment is calculated based on the regression result that explains the greatest 9 variation in Ccf usage due to HDD variations. 10

For the LVS class, 75 percent of the customers show statistically significant weather sensitivity and are included in the weather adjustment calculations. Among the weather sensitive customers, the test year regression results are used for 92 percent of these customers, while the longer-term regressions results are applied for spercent of the customers.

16

For each weather sensitive customer, the calculated volume adjustment is priced at current LVS rates. These rates vary seasonally (with higher Ccf rates in the months of November through March and lower rates in the months of April through October) and by rate block (with higher rates for the first 30,000 Ccf and lower rates for usage in excess of 30,000 Ccf).

⁵ If a customer became an LVS customer after January 2008, the longer period regression analysis begins with the month in which the customer became an LVS customer.

1		Schedule FJC-2 provides a summary of the LVS weather normalization adjustment.
2		All LVS customers are billed on billing cycle 41. The differences in the seasonal
3		volumes adjustments are consistent with Kansas City weather that was about 11
4		percent colder than normal in April through October and about three percent
5		warmer than normal in November through March for billing cycle 41. By contrast,
6		Springfield weather (used in Joplin) was warmer than normal in both seasons for
7		billing cycle 41.
8		
9		3. CUSTOMER ANNUALIZATION
10		
11	Q.	WHAT IS THE PURPOSE OF THE CUSTOMER ANNUALIZATION
12		ADJUSTMENT?
13	A.	The purpose of this adjustment for a customer class is to restate the number of test
14		year bills for the RES, SGS, and LGS classes to reflect customer growth either
15		positive or negative that occurred during the test year.
16		
17	Q.	DID YOU EXAMINE THE HISTORICAL CUSTOMER GROWTH
18		PATTERNS FOR THE RESIDENTIAL, SMALL GENERAL SERVICE,
19		AND LARGE GENERAL SERVICE CLASSES IN DEVELOPING YOUR
20		ADJUSTMENTS?
21	A.	Yes. For background purposes, I reviewed the last ten years of monthly customer
22		count data ending April 2013 for the RES, SGS, and LGS customer classes. To
23		take into account the seasonality of customer counts over the course of a year, I
24		analyzed 12-month rolling averages of customer counts to examine customer

- growth patterns. The May 2003 through April 2013 customer count data provide
 nine years of 12-month rolling average data to examine customer growth patterns.
- 3

4 Q. PLEASE DESCRIBE THE RESIDENTIAL CUSTOMER GROWTH 5 PATTERNS OVER THIS TEN-YEAR PERIOD.

6 A. Based on comparisons of the customer counts for years ending in April, positive 7 RES customer growth occurred in Kansas City, St. Joseph, and Joplin through April 8 2008. After April 2008, negative RES customer growth began in each of the three 9 areas. This negative growth continued in Kansas City until October 2012 and in 10 Joplin until June 2012, after which some positive growth returned. As a result of 11 the late-May 2011 tornado, the Joplin RES class showed an especially sharp decline 12 from the year ended June 2011 until the year ended May 2012. After these points 13 in time, modest growth, *i.e.*, increases in 12-month rolling average customer counts, 14 occurred in both Joplin and Kansas City. By contrast, the St. Joseph RES class 15 showed continuing negative growth after April 2008, although there was some 16 slowing, on average, in the negative growth in the May 2012 through April 2013 17 period. In focusing on the later part of the period, Schedule FJC-3, page 1 shows 18 these patterns graphically for the last five years, or for the April 2008 – April 2013 19 period.

20

21 Q. PLEASE DESCRIBE THE SMALL GENERAL SERVICE CUSTOMER 22 GROWTH PATTERNS OVER THIS TEN-YEAR PERIOD.

A. Based on comparisons of the customer counts for years ending in April, the SGS
class has generally shown negative growth in each area throughout the period. For

the year ended April 2011, there was a particularly sharp decline in each area
compared to the prior year. Much of this negative growth was caused by a number
of SGS customers moving to the LGS class in April and May 2010 with the
reduced LGS minimum usage threshold requirement that became effective with the
Commission's Order in Case No. GR-2009-0355.

6

7 While the SGS class shows a generally declining customer base over the entire 8 period, there were several times when positive growth briefly occurred in Kansas 9 City and Joplin. The SGS class had some positive growth in the years ended April 10 2006 and April 2007 in each area. The SGS class also showed small positive 11 growth in the year ended April 2012 in Kansas City and in the year ended April 12 2013 in Joplin. By contrast, the St. Joseph SGS class showed a continually 13 declining SGS customer base throughout the ten-year period, although the rate of 14 decline lessened somewhat in the year ended April 2013 compared to prior years. 15 In focusing on the later part of the period, Schedule FJC-3, page 2 shows these 16 patterns graphically for last five years, or for the April 2008 – April 2013 period.

17

18 Q. PLEASE DESCRIBE THE LARGE GENERAL SERVICE CUSTOMER 19 GROWTH PATTERNS OVER THIS TEN-YEAR PERIOD.

A. Over the seven-year period from May 2003 through April 2010, the LGS class
showed a continually declining customer base in Kansas City and a relatively
constant customer base in Joplin and St. Joseph. With the reduced LGS minimum
usage threshold that became effective with the Commission's Order in Case No.
GR-2009-0355, the LGS customer base increased about ten-fold by May 2010 in

each of the areas as former SGS customers shifted to the LGS class. The full
impact of this customer shift is reflected in the 12-month rolling average beginning
in April 2011. More recently, the LGS customer base in each area has been
declining, since late 2011 in Kansas City and early 2012 in Joplin and St. Joseph.
In focusing on recent years, Schedule FJC-3, page 3 shows these patterns
graphically for last three years, or for the April 2011 – April 2013 period.

7

8 Q. PLEASE EXPLAIN HOW THE CUSTOMER ANNUALIZATION 9 ADJUSTMENTS ARE CALCULATED.

10 A. For each geographic area and each customer class, the difference between the 11 average monthly customer count for the year ended April 2013 and the average 12 monthly customer count for the year ended April 2012, *i.e.*, ending the month 13 before the test year began, is calculated. This average monthly count change is 14 then annualized to determine the change in the annual number of customers served 15 during the test year ended April 2013.

16

The corresponding revenue adjustment due to customer annualization is based on 17 18 the current fixed monthly charge for each class and on the current volumetric rates 19 for the LGS class. For the LGS class in each area, Ccf usage changes in each 20 month of the test year are calculated based on the customer count change in each 21 month and the weather normalized usage per customer in that month. The volume 22 changes in each month are priced at the current LGS seasonal rates. The volumetric 23 revenue change is added to the fixed charge revenue change to determine the LGS 24 customer annualization revenue adjustment. Volume changes due to customer

1		count changes are not needed for the RES and SGS class customer annualization
2		adjustments because the rate designs for, and base revenue derived from, these
3		classes is not dependent on Ccf usage.
4		
5		Based on Schedule FJC-3, one would expect positive RES adjustments in Kansas
6		City and Joplin, a negative RES adjustment for St. Joseph, negative SGS
7		adjustments in Kansas City and St. Joseph, a positive SGS adjustment in Joplin, and
8		negative LGS adjustments in each of the three areas. Consistent with each of these
9		expectations, Schedule FJC-4 provides a summary by class and geographic area of
10		the customer annualization adjustments for the RES, SGS, and LGS classes.
11		
12 13		4. CUSTOMER SHIFTS TO LARGE VOLUME SERVICE AND LARGE VOLUME SERVICE CUSTOMER LOSSES
14		
	Q.	PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS
14	Q.	
14 15	Q. A.	PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS
14 15 16		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE.
14 15 16 17		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted
14 15 16 17 18		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects
14 15 16 17 18 19		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects volumes and revenue as if the three customers were LVS customers for the entire
14 15 16 17 18 19 20		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects volumes and revenue as if the three customers were LVS customers for the entire test year. This is accomplished by shifting their bills and usage when they were
14 15 16 17 18 19 20 21		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects volumes and revenue as if the three customers were LVS customers for the entire test year. This is accomplished by shifting their bills and usage when they were LGS (or SGS) customers to LVS and repricing the bills and usage at LVS rates. As
 14 15 16 17 18 19 20 21 22 		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects volumes and revenue as if the three customers were LVS customers for the entire test year. This is accomplished by shifting their bills and usage when they were LGS (or SGS) customers to LVS and repricing the bills and usage at LVS rates. As shown in the top portion of Schedule FJC-5, the adjustment reduces the number of
 14 15 16 17 18 19 20 21 22 23 		PLEASE EXPLAIN THE ADJUSTMENT FOR THE CUSTOMER SHIFTS TO LARGE VOLUME SERVICE. This adjustment pertains to two LGS customers and one SGS customer who shifted to LVS during the test year. As continuing LVS customers, the adjustment reflects volumes and revenue as if the three customers were LVS customers for the entire test year. This is accomplished by shifting their bills and usage when they were LGS (or SGS) customers to LVS and repricing the bills and usage at LVS rates. As shown in the top portion of Schedule FJC-5, the adjustment reduces the number of SGS bills and revenue (based on the SGS fixed monthly charge) and the number of

adjustment increases the number of LVS bills, LVS volumes, and revenue (based
 on the LVS fixed monthly charge and the seasonal LVS blocked volumetric rates).
 3

4 Q. PLEASE EXPLAIN THE ADJUSTMENT FOR LARGE VOLUME 5 SERVICE CUSTOMER LOSSES.

- 6 A. The purpose of this adjustment is to remove volumes and revenue associated with 7 LVS customers who have discontinued gas service. In December 2012, one LVS 8 customer -- a flex rate customer -- ceased operations. In July 2013, a standard LVS 9 customer discontinued gas service. While slightly beyond the April 2013 test year 10 end, the loss of the latter customer is recognized as a known and measurable 11 change. The bottom portion of Schedule FJC-5 shows the number of bills, 12 volumes, and revenues that are removed from the test year for LVS as a result of 13 the loss of these two customers.
- 14

15 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

16 A. Yes.

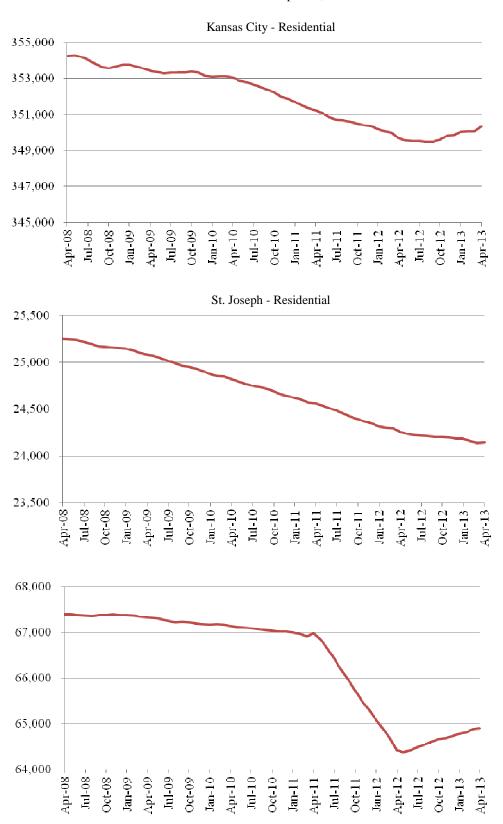
Missouri Gas Energy Large General Service Weather Normalization Adjustment Test Year Ended April 30, 2013

	Volume Adjustment (Ccf)		Dollar Adjustment			
	Nov-Mar	Apr-Oct	Total	Nov-Mar	Apr-Oct	Total
Kansas City	2,035,719	(48,429)	1,987,290	260,531	(3,572)	256,959
St. Joseph	182,398	(22,356)	160,042	23,343	(1,649)	21,694
Joplin	696,840	131,428	828,268	89,182	9,694	98,876
	2,914,957	60,643	2,975,601	\$373,056	\$ 4,473	\$377,529

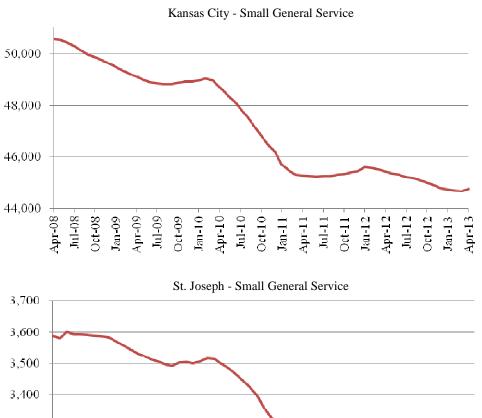
Schedule FJC-2

Missouri Gas Energy Large Volume Service Weather Normalization Adjustment Test Year Ended April 30, 2013

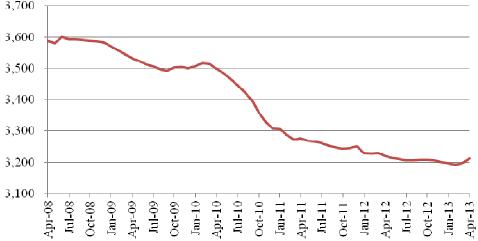
	Volum				
-	First Block	Second Block	I	Dollars	
Kansas City					
Nov-Mar	342,720	744,480		50,375	
Oct-Apr	(142,370)	(487,670)		(15,954)	
Total	200,350	256,810	\$	34,422	
St. Joseph					
Nov-Mar	12,760	92,020		4,618	
Oct-Apr	(3,790)	(56,630)		(1,415)	
Total	8,970	35,390	\$	3,203	
Joplin					
Nov-Mar	160,450	291,460		21,150	
Oct-Apr	15,060	56,560		1,800	
Total	175,510	348,020	\$	22,950	
LVS - All Areas					
Nov-Mar	515,930	1,127,960		76,143	
Oct-Apr	(131,100)	(487,740)		(15,568)	
Total	384,830	640,220	\$	60,575	

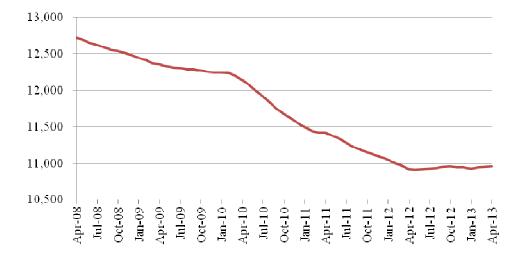


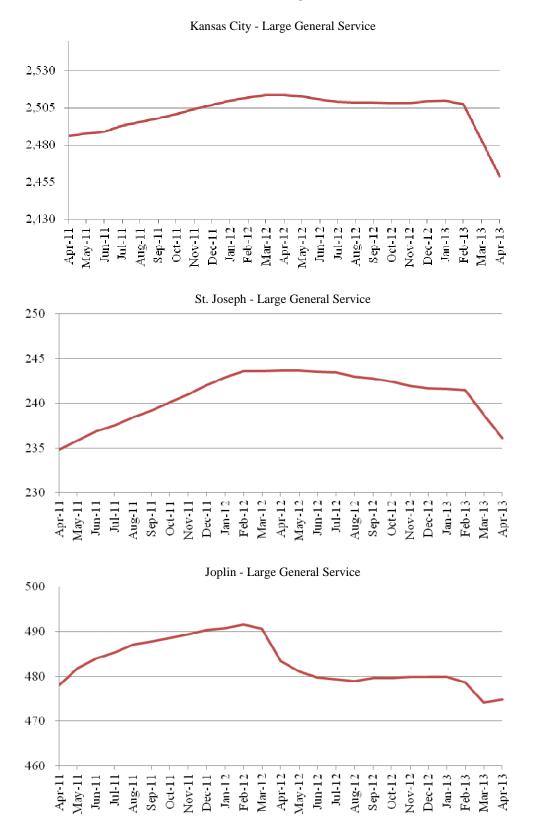
Missouri Gas Energy Customer Count History by Rate Schedule and Area - 12-Month Rolling Average Test Year Ended April 30, 2013



Missouri Gas Energy Customer Count History by Rate Schedule and Area - 12-Month Rolling Average Test Year Ended April 30, 2013







Missouri Gas Energy Customer Count History by Rate Schedule and Area - 12-Month Rolling Average Test Year Ended April 30, 2013

Missouri Gas Energy Customer Annualization Adjustment Test Year Ended April 30, 2013

	Kansas City	St. Joseph	Joplin	Class Total
Residential Customer Additions				
(Reductions)	7,473	(1,256)	5,651	11,868
Fixed Monthly Charge Dollars				\$ 319,019
Small General Service Customer Additions				
(Reductions)	(7,988)	(91)	469	(7,610)
Fixed Monthly Charge Dollars				\$(298,751)
Large General Service Customer Additions				
(Reductions)	(651)	(91)	(102)	(844)
Volume Additions (Reductions) Nov-Mar	(852,711)	(125,646)	(130,159)	(1,121,798)
Apr-Oct	(373,616)	(62,657)	(69,745)	(504,992)
Fixed Monthly Charge Dollars Volumetric Dollars	(75,041)	(10,490)	(11,758)	\$ (93,946)
Nov-Mar	(109,130)	(16,080)	(16,658)	
Apr-Oct	(27,558)	(4,622)	(5,144)	
				\$(180,816)
				\$(274,762)

Missouri Gas Energy General Service to Large Volume Service Rate Switching and Large Volume Service Customer Loss Adjustments Test Year Ended April 30, 2013

	Number of Bills	Volumes (Ccf)	Revenue
Rate Switching			
Small General Service (1)	(3)	n.a.	\$ (118)
Large General Service			(2.000)
Nov-Mar	(2)	(29,360)	(3,980)
Apr-Oct	(8)	(214,470)	(16,710)
			\$ (20,690)
Large Volume Service			
Nov-Mar	2	29,360	3,340
Apr-Oct	11	307,000	19,373
			\$ 22,713
Customer Losses			
Large Volume Service			
LVS Rates	(5)	0	(1.2(1))
Nov-Mar	(5)	0	(4,361)
Apr-Oct	(7)	(50)	(6,105)
Flex Rates	(8)	(938,490)	(7,977)
			\$ (18,443)

(1) SGS volume reduction has no SGS revenue consequence.