

**In the Matter of the Application of)
Kansas Gas Service, A Division of ONE)
Gas, Inc. for Adjustment of its Natural) Docket No. 18-KGSG-560-RTS
Gas Rates in the State of Kansas)**

DIRECT TESTIMONY

PREPARED BY

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UTILITIES DIVISION

KANSAS CORPORATION COMMISSION

October 29, 2018

1 **I. STATEMENT OF QUALIFICATIONS**

2 **Q. What is your name?**

3 A. Darren L. Prince

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

5 A. I am employed by the Kansas Corporation Commission (KCC or Commission) as
6 a Managing Economist.

7 **Q. What is your business address?**

8 A. 1500 SW Arrowhead Road, Topeka, KS, 66604-4027.

9 **Q. What is your educational background and professional experience?**

10 A. I hold a Bachelor of Arts and Master of Arts degree in Economics from the
11 University of Missouri-Kansas City. I have been employed by the KCC since May
12 16, 2016. Prior to my employment by the KCC, I was a Project Manager for
13 Perfection Paper Hanging LLC.

14 **Q. Have you previously submitted testimony before this Commission?**

15 A. Yes, I filed testimony in Docket Nos. 16-KCPE-446-TAR, 16-KGSG-491-RTS,
16 18-WSEE-328-RTS, 18-KCPE-480-RTS, and 18-KG&E-303-CON. I have also
17 participated in other Dockets as a member of KCC Staff (Staff).

18 **II. INTRODUCTION**

19 **Q. What is the purpose of your testimony?**

20 A. The purpose of my testimony is to sponsor Staff's weather normalization revenue
21 adjustment of \$2,935,687¹ and Staff's customer annualization revenue adjustment
22 of \$(30,937).

¹ It should be noted that this amount was corrected late in the process. The correction increases income by \$9,256 which decreases revenue requirement by \$9,256.

1 **Q. What is the purpose of normalizing space heating usage?**

2 A. The weather normalizing adjustment is designed to minimize the effects of non-
3 normal weather conditions on test year volumes and revenue collections. Some
4 natural gas uses, such as space heating, are sensitive to temperature—decreasing
5 when temperatures rise and increasing when temperatures fall. Therefore, if the
6 test year is cooler than normal, volume and revenue will be artificially high.
7 Ultimately, this would result in rates being set too low for KGS to collect its
8 approved revenue requirement when weather is normal.

9 **Q. What is the purpose of normalizing irrigation usage?**

10 A. Like space heating, gas usage for irrigation is also affected by temperature.
11 However, unlike space heating, which has an inverse relationship with temperature,
12 irrigation usage typically increases as temperature increases. In addition, irrigation
13 usage is sensitive to precipitation. Thus, irrigation usage increases during hotter
14 and drier periods and decreases during cooler and wetter periods.

15 Because revenue should reflect normal ongoing operations, the Commission
16 sets rates based on normal weather customer usage. Through the weather
17 normalization process, test year volumes and revenues are adjusted to reflect the
18 difference between actual test year weather and normal weather. Hence, the
19 weather normalizing adjustments are added or subtracted to test year volumes and
20 revenue so the test year is reflective of normal weather.

21 **Purpose of Customer Annualization**

22 **Q. What is the purpose of annualizing customer counts?**

23 A. The customer annualization adjusts test year revenues to reflect the number of
24 customers for each customer class KGS was serving at the end of the test year.

1 Thus, the adjustment represents the revenue KGS would have received if the
2 number of end year customers had received service throughout the entire test year.

3 **WEATHER NORMALIZATION**

4 **Process**

5 **Q. Please provide a brief description of the weather normalization process.**

6 A. The weather normalization process can be divided into the following four steps:

- 7 1) Selection of weather stations and collection of data;
8 2) Performance of regression analysis to determine customer-class-specific
9 regression coefficients or heat sensitivity factors (HSFs);
10 3) Calculation of volumetric sales adjustments; and
11 4) Calculation of revenue adjustments.

12
13 **Data Collection**

14 **Q. What is the source of usage and customer count data?**

15 A. KGS provided Staff volumetric usage and basic service charge revenue for each of
16 the customer classes by weather station. With this data, Staff was able to calculate
17 the per capita gas usage for each customer class.

18 **Q. What is the source of weather data that was used for the analysis?**

19 A. Staff collected weather data for Kansas City, Topeka, and Wichita weather stations
20 from the National Oceanic and Atmospheric Administration (NOAA). Staff
21 collected daily maximum and minimum temperatures and precipitation (PRCP)
22 data for the period of January 1988 through December 2017. Staff calculated
23 Heating Degree Days (HDDs) and Cooling Degree Days (CDDs) with this data. In
24 addition, Staff calculated 30-year normals (1988-2017).

25 **Q. Please explain what “HDDs” and “CDDs” are.**

26 A. HDDs and CDDs are weather variables that measure deviations from normal
27 weather. HDDs cover colder weather and indicate how cool the average daily
28 temperature was relative to some established base temperature (in this case, 65

degrees).² In terms of weather normalization, HDDs indicate customer demand for space heating. CDDs cover warmer weather and indicate how warm the average daily temperature was relative to some established base temperature (in this case, 65 degrees). In terms of weather normalization for natural gas use, CDDs indicate customer demand for irrigation classes.

Regression Estimation Process

Q. What is the purpose of performing a regression analysis on weather variables and natural gas use in this case?

A. The purpose of performing regression analysis is to determine the statistically significant regression coefficients for each customer class. The regression coefficients measure the relationship between customer usage (dependent variable) and weather (independent variables) for the different customer classes. They are then used to calculate volume and revenue adjustments to correct for temperature deviations from the 30-year norms for each customer class.

Q. Please describe the process for performing the regression analysis utilized in this case.

A. I performed a linear regression analysis with per capita customer usage as the dependent variable. The monthly HDDs and lagged HDDs (HDD-1), CDDs and lagged CDDs (CDD-1), and PRCP and lagged PRCP (PRCP-1) were the independent variables. Because the data is the same variable collected at regular intervals over an extended period of time, I encountered autocorrelation and

² Staff calculated HDD and CDD measures as follows.

$$(1) \quad HDD = \left(65 - \frac{Max + Min}{2}\right) \text{ if } \frac{Max + Min}{2} < 65, \text{ otherwise } HDD = 0$$

$$(2) \quad CDD = \left(\frac{Max + Min}{2} - 65\right) \text{ if } \frac{Max + Min}{2} > 65, \text{ otherwise } CDD = 0$$

1 seasonality in the data.³ Autocorrelation and seasonality result in distortionary time
2 series behavior; parameters such as the mean and variance of the time series change
3 over time.

4 **Q. How did you resolve the autocorrelation and seasonality issues?**

5 A. To correct for autocorrelation and seasonality, I applied autoregressive, seasonal
6 autoregressive, moving average, and seasonal moving average terms. In addition,
7 a dummy variable was also added to correct for two issues: 1) when a regime
8 change in the mean occurred but the variance remained the same; and 2) when the
9 time series displayed anomalous behavior. Including these terms substantially
10 improved the standard error and other metrics of the data analysis.

11 *Volumetric Adjustment Process*

12 **Q. Please describe the process for calculating the volumetric sales adjustments.**

13 A. To make the appropriate adjustment to the billing determinants, the actual monthly
14 HDDs, CDDs, and PRCs for the test year were subtracted from the normal
15 monthly HDDs, CDDs, and PRCs. The difference between them was multiplied
16 by the HSFs and then, finally multiplied by the class customer count for a given
17 month of the test year. The result is the estimated effect of the deviation from
18 normal weather on natural gas usage.⁴ The calculation is done for each customer

³ Autocorrelation is the correlation of a time series variable with earlier and later value of itself. For example, the best predictor of next period US Gross Domestic Product (GDP) is this period's GDP plus or minus a small percentage change because US GDP is autocorrelated. Seasonality in time series data are regular patterns in the data. Space heating usage of natural gas declines in the spring through the summer and then increases in the fall through the winter.

⁴
$$3) \left(\begin{matrix} \text{Estimated} \\ \text{effect on usage} \end{matrix} \right) = \left[\left(\left(\begin{matrix} \text{Normal} \\ \text{HDD or CDD} \end{matrix} \right) - \left(\begin{matrix} \text{Actual} \\ \text{HDD or CDD} \end{matrix} \right) \right) (\text{Coefficient}) \right] * (\text{Customer count})$$

1 class, and the sum of all those adjustments is the total weather-normalized
2 volumetric sales adjustment.

3 Revenue Adjustment Process

4 **Q. Please describe the process for calculating the revenue adjustment.**

5 A. To calculate the revenue adjustments, the volumetric sales adjustments for each
6 tariff class were multiplied by the applicable tariff rate for that customer class.⁵
7 The result is the estimated effect of weather deviation on the KGS's revenue
8 collection. The sum of all those adjustments is the total weather-normalized
9 revenue adjustment.

10 Results

11 **Q. What were the results of Staff's weather normalization analysis?**

12 A. Staff's weather normalization results in a volumetric adjustment of 7,749,899 Mcf
13 resulting in a revenue increase of \$15,599,737. KGS's weather normalization
14 resulted in a volumetric adjustment of 6,323,460 Mcf resulting in a revenue
15 increase of \$12,664,050. Staff is proposing an adjustment of \$2,935,687, the
16 difference between Staff and KGS's results. Staff's regression results are displayed
17 in Exhibit DLP-1. Staff's weather norm volumetric and revenue adjustments are
18 illustrated in Exhibit DLP-2.

19 Differences

20 **Q. Is Staff's weather normalization adjustment different from KGS's?**

21 A. Yes. There are three main causes for the difference between Staff and KGS's
22 weather normalization adjustment. The primary cause is the difference in time

⁵ 4) $\left(\begin{matrix} \text{Estimated} \\ \text{effect on revenue collection} \end{matrix} \right) = \left(\begin{matrix} \text{Volumetric} \\ \text{Sales Adjustment} \end{matrix} \right) * \left(\begin{matrix} \text{Applicable} \\ \text{Tariff Rate} \end{matrix} \right)$

1 periods used to calculate normal weather. Staff used weather data from 1988 –
2 2017, while KGS used weather data from 2008 – 2017. Second, Staff used
3 different usage data. Third, Staff used a different base temperature to calculate
4 CDDs. The normal weather time period analysis is provided by Staff witness Dr.
5 Glass. The billing determinants and CDD calculation differences are discussed
6 below.

7 Billing Determinants

8 *Staff's Billing Determinants*

9 **Q. Did Staff use different billing determinants than KGS?**

10 A. Yes. Staff utilized billing determinants from January 2011 – December 2017. In
11 addition, Staff utilized usage data from KGS where corrections from prior months
12 entered into subsequent months were removed.⁶ For example, if there was an error
13 in the customer's usage in March 2017, a correction was made for this error in May
14 2017. This correction was removed from May 2017 but was not entered in March
15 2017.

16 **Q. Why did Staff choose to use this data?**

17 A. The purpose of weather normalization is to determine the effect weather has on
18 customer usage during the test year. If prior month corrections are included in
19 subsequent months, the customer usage is not reflective of actual usage because it
20 contains non-contemporaneous adjustments.

⁶ KCC DR 141 Response.

1 **Q. Is this data as precise as Staff would prefer?**

2 A. No. Staff would prefer usage data where corrections from prior month were
3 removed and placed in the appropriate month opposed to prior month corrections
4 simply being removed. However, KGS did not provide detail specifying in what
5 months corrections were removed or the appropriate month to add the correction.
6 Though the data Staff used is not the most precise data that could be developed, it
7 is the most reflective of customer use available at this time.

8 *KGS's Billing Determinants*

9 **Q. What data did KGS use?**

10 A. KGS used data straight from the banner billing system. This usage data contains
11 the prior month corrections still in subsequent months.

12 *CDD Calculation*

13 *Staff's Calculation Base*

14 **Q. What base did Staff use to calculate CDDs?**

15 A. Staff used a base of 65 degrees.

16 **Q. Is this consistent with previous weather normalization analyses?**

17 A. Yes. Staff has consistently used 65 degrees as the base to calculate CDDs. In
18 addition, a base of 65 degrees is standardly used by NOAA.

19 *KGS's Calculation Base*

20 **Q. What base did KGS use to calculate CDDs?**

21 A. KGS used a 70 degree base.

1 **Q. Why did KGS use a base of 70 degrees?**

2 A. KGS used a 70 degree base because a higher base temperature appeared to be more
3 reasonable for irrigation purposes.⁷ In addition, KGS did not believe a different
4 base temperature would produce different results if the weather normals were
5 calculated with a 70 degree base as well.⁸

6 **Q. Why should Staff's figure of 65 degrees be approved?**

7 A. If the base is above 65, Staff is concerned the effect of the missing CDDs on
8 monthly customer usage could cause distortion. To understand why Staff chose 65
9 degrees as the degree base I need to go back to the original reason that CDDs are
10 used for irrigation normalization. Irrigation customers use natural gas to power
11 irrigations systems during the summer months because of evaporation.
12 Temperature and evaporation are directly related, as temperature increases
13 evaporation increases.

14 A typical Kansas summer varies, for example, in August, highs will range in
15 the upper 70s to low 90s and lows will range from upper 50s to mid 70s. The
16 average temperature may be 70 degrees plus for a week and then be followed by a
17 couple days with an average temperature 70 degrees and below but still having a
18 high in the upper 70s to low 80s.

19 For example, a high of 80 and a low 58 would be an average of 69 degrees. If
20 a 70 degree base is used, there are 0 CDDs, but if a 65 degree base is used, there
21 would be 4 CDDs. Staff suspects that across irrigation classes, 4 CDDs is a more

⁷ KGS Response to KCC DR 306.

⁸ KGS Response to KCC DR 306.

1 accurate representation of how irrigation customer's natural gas usage responded
2 to the temperature than 0 CDDs.

3 Let me simply conclude by noting the purpose of the CDD is to capture the
4 temperature effect that causes an increase in irrigation. Due to the variation of
5 temperature in Kansas, Staff believes that a 65 degree base is more accurate at
6 capturing changes in irrigation usage than a 70 degree base. By raising the base
7 above 65, Staff is concerned that the true effect missing CDDs have on monthly
8 customer usage could be distorted. Such a mismatch would create more error in
9 the estimation of irrigation sensitivity.

10 **Recommendation**

11 **Q. Do you have a recommendation?**

12 A. Yes. Because Staff utilized more precise customer usage data, used a consistent
13 method to calculate CDDs, and used more appropriate normal weather variables, I
14 recommend the Commission accept Staff's weather normalization revenue
15 adjustment of \$2,935,687.

16 **CUSTOMER ANNUALIZATION**

17 **Process**

18 **Q. Please provide a brief description of the customer annualization process.**

19 A. The customer annualization process can be divided into the following steps:

- 20 1) Collection of customer counts by weather station per customer class;
21 2) Calculation of customer coefficients;
22 3) Calculation of volumetric adjustment; and
23 4) Calculation of revenue adjustment.
24

1 Data Collection

2 **Q. How did Staff obtain the customer counts per customer class and weather**
3 **station?**

4 A. KGS supplied basic service charge revenue per customer class and weather station.
5 Staff used this revenue and the basic service charge for each customer class per
6 weather station to calculate monthly customer counts for the test year.

7 Customer Coefficient Calculation

8 **Q. How did you calculate the customer coefficients?**

9 A. First, Staff calculated the average customer count per customer class and weather
10 station for 2015, 2016, and 2017. Next, Staff calculated the change in average
11 customer counts from 2015 to 2016 and 2016 to 2017. Finally, by taking the
12 average of these two differences and dividing by twelve, Staff derived the customer
13 coefficients for each customer class and corresponding weather station. This
14 process is similar to KGS.

15 **Q. Can you describe how the customer coefficients are used to calculate the**
16 **annualized monthly customer counts?**

17 A. Yes. Beginning in January of the test year, the customer coefficient is multiplied
18 by 11 (February by 10, and so on) and added to the actual customer count. This
19 methodology continues until December, when actual customer count and
20 annualized customer count are equal.

21 Volumetric Adjustment Process

22 **Q. How did you calculate the volume adjustment?**

23 A. In order to derive annualized monthly volumes, Staff multiplied the difference in
24 annualized customer count and actual customer count times the monthly weather

1 normalized volumes per capita across each rate class and corresponding weather
2 station.

3 Revenue Adjustment Process

4 **Q. How did you calculate the revenue adjustment?**

5 A. In order to arrive at monthly adjusted revenues, Staff multiplied the annualized
6 monthly volumes determined in the previous calculation times the corresponding
7 commodity rate plus the change in customers times the corresponding basic
8 service charge. The final test year adjustment is the sum of adjusted revenues
9 across all months in the test year associated with the customer annualization
10 according to customer class and weather station.

11 Results

12 **Q. What customer annualization adjustment are you recommending?**

13 A. Staff's calculation results in a revenue increase of \$276,072. KGS calculations
14 resulted in a revenue increase of \$307,009. Staff is proposing an adjustment of
15 \$(30,937), the difference between Staff and KGS's results. Staff's customer
16 annualization results are displayed in Exhibit DLP – 3.

17 Differences

18 Weather Normed Usage

19 **Q. Why is Staff's and KGS's customer annualization adjustment different?**

20 A. The difference resides in the weather normed usage that is an input into the
21 customer annualization adjustment. As discussed earlier, Staff utilized different
22 billing determinants, calculated CDDs differently, and used different weather
23 normals than KGS, when calculating weather normalization adjustments. This
24 resulted in different weather normed usage being used in the customer
25 annualization causing the difference in the customer annualization adjustment.

1 **Recommendation**

2 **Q. Do you have a recommendation?**

3 A. Yes. As mentioned earlier, Staff's weather normed usage is more reflective of
4 customer usage and is an input into the customer annualization calculation.
5 Therefore, I am recommending the Commission accept Staff's customer
6 annualization adjustment of \$(30,937).

7 **APPLICATION OF THE WNAR TO STk and STt CUSTOMERS**

8 **KGS's Analysis**

9 **Three Reasons to Add STk and STt Customers to the WNAR**

10 **Q. Why is KGS requesting the WNAR be applied to STk and STt customers?**

11 A. When KGS originally requested approval of the WNAR, the transportation
12 customers were significantly larger and not as weather sensitive as smaller
13 customers.⁹ However, the transportation eligibility threshold has continually been
14 reduced since the WNAR was first approved, and some weather sensitive customers
15 have migrated from sales classes to the STk and STt classes as a result.¹⁰

16 In addition, KGS has since divided its sales customers into small, large, and
17 transport-eligible classes.¹¹ The pricing of one of these sales classes, the General
18 Service Transport Eligible (GSTE) customer class, was specifically designed to
19 track the pricing of the small transport classes (STk and STt) such that pricing does
20 not influence their choice of service.¹² However, the WNAR currently applies to
21 the GSTE but not to the STk and STt classes. Thus, KGS is concerned that GSTE

⁹ Direct Testimony Prepared by Paul H. Raab, p. 31 ln. 2-7 (Raab Direct).

¹⁰ Raab Direct, p. 31 ln. 12-20.

¹¹ Raab Direct, p. 32 ln. 3-5.

¹² Raab Direct, p. 32 ln. 5-8.

customers will migrate to the transport classes to avoid the cost of the WNAR and KGS will lose the revenue and protection provided by the WNAR.

Staff's Analysis

STk and STt Customers' Weather Sensitivity

Q. Is the weather sensitivity of STk and STt customers comparable to the weather sensitivity of customer classes currently included in the WNAR?

A. Yes. The STk and STt customers' weather sensitivity is comparable to the customer classes currently included in the WNAR. Staff's weather norm analysis confirms this. The STk and STt customer classes are as sensitive to weather as GSTE and GSS. The following table illustrates the customer classes included in the WNAR and STk and STt customers' weather sensitivity during the test year.

Table 1

Residential (RS)	14%
General Sales Service Transport Eligible (GSTE)	11%
General Sales Service - Small (GSS)	18%
General Sales Service - Large (GSL)	11%
Small Transportation Service - "k" system (STk)	10%
Small Transportation Service - "t" system (STt)	11%

Recommendation

Q. Do you have a recommendation?

A. Yes. Staff recommends the Commission approve KGS's request to apply the WNAR to STk and STt tariffs because Staff's weather norm analysis confirmed the STk and STt customers' usage is as sensitive to weather as some of the customer classes included in the WNAR.

IV. CONCLUSION

Q. Please summarize the recommendations discussed in your testimony.

A. The Commission should accept Staff's proposed weather normalization revenue adjustment of \$2,935,687 and customer annualization adjustment of \$(30,937)

1 because of the following: (1) Staff relied on usage data which provides a better
2 representation of usage compared to KGS which relied on usage data containing
3 non-contemporaneous billing adjustments; (2) Staff calculated CDDs using a 65
4 degree base which is consistent with past weather normalization methodology; and
5 (3) Staff used a more appropriate time period to calculate weather normals. In
6 addition, Staff recommends the Commission approve KGS's request to add the STk
7 and STt tariffs to the WNAR.

8 **Q. Does this conclude your testimony?**

9 **A. Yes. Thank you.**

EXHIBIT DLP – 1
18-KGSG-560-RTS
STAFF’S REGRESSION RESULTS

Exhibit DLP – 1

18-KGSG-560-RTS

Regression Results

Dependent Variable: _09RS				
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)				
Date: 09/28/18 Time: 11:00				
Sample (adjusted): 2012M02 2017M12				
Included observations: 71 after adjustments				
Failure to improve likelihood (non-zero gradients) after 23 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2011M02 2012M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.369684	0.369823	0.999623	0.3211
_09_HDDS	0.009935	0.001436	6.916504	0
_09_HDDS(-1)	0.005741	0.000957	5.999156	0
AR(12)	0.88159	0.038252	23.04665	0
MA(12)	-0.863234	0.055587	-15.52941	0
R-squared	0.987965	Mean dependent var	6.530822	
Adjusted R-squared	0.987235	S.D. dependent var	5.96252	
S.E. of regression	0.673652	Akaike info criterion	2.115613	
Sum squared resid	29.95123	Schwarz criterion	2.274956	
Log likelihood	-70.10425	Hannan-Quinn criter.	2.178979	
F-statistic	1354.467	Durbin-Watson stat	2.118485	
Prob(F-statistic)	0			
Inverted AR Roots	0.99	.86+.49i	.86-.49i	.49+.86i
	.49-.86i	-.00-.99i	-.00+.99i	-.49-.86i
	-.49+.86i	-.86+.49i	-.86-.49i	-0.99
Inverted MA Roots	0.99	.86-.49i	.86+.49i	.49-.86i
	.49+.86i	.00+.99i	-.00-.99i	-.49-.86i
	-.49+.86i	-.86+.49i	-.86-.49i	-0.99

Dependent Variable: _19RS				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 13:56				
Sample (adjusted): 2012M03 2017M12				
Included observations: 70 after adjustments				
Convergence achieved after 38 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2011M02 2012M02				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.024276	0.323428	0.07506	0.9404
_19_HDDS	0.00613	0.000863	7.106087	0
_19_HDDS(-1)	0.0059	0.000476	12.4062	0
AR(1)	-0.696181	0.110129	-6.321506	0
SAR(12)	0.920558	0.031966	28.79842	0
MA(1)	0.489477	0.175747	2.785131	0.0071
SMA(12)	-0.857073	0.047877	-17.90143	0
R-squared	0.989861	Mean dependent var	5.021915	
Adjusted R-squared	0.988896	S.D. dependent var	4.489414	
S.E. of regression	0.473082	Akaike info criterion	1.435544	
Sum squared resid	14.09982	Schwarz criterion	1.660393	
Log likelihood	-43.24404	Hannan-Quinn criter.	1.524857	
F-statistic	1025.129	Durbin-Watson stat	1.838235	
Prob(F-statistic)	0			
Inverted AR Roots	0.99	.86-.50i	.86+.50i	.50-.86i
	.50+.86i	.00+.99i	-.00-.99i	-.50+.86i
	-.50-.86i	-0.7	-.86+.50i	-.86-.50i
	-0.99			
Inverted MA Roots	0.99	.85+.49i	.85-.49i	.49+.85i
	.49-.85i	-.00-.99i	-.00+.99i	-0.49
	-.49-.85i	-.49+.85i	-.85+.49i	-.85-.49i
	-0.99			

Dependent Variable: _20RS				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 14:01				
Sample (adjusted): 2012M03 2017M12				
Included observations: 70 after adjustments				
Convergence achieved after 39 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2011M02 2012M02				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.237067	0.477742	0.496223	0.6215
_20_HDDS	0.007206	0.001035	6.96203	0
_20_HDDS(-1)	0.006956	0.000625	11.12416	0
AR(1)	-0.710156	0.111021	-6.396579	0
SAR(12)	0.945329	0.024979	37.84546	0
MA(1)	0.393618	0.186584	2.109599	0.0389
SMA(12)	-0.873638	0.057141	-15.28921	0
R-squared	0.990031	Mean dependent var	5.100081	
Adjusted R-squared	0.989081	S.D. dependent var	4.577109	
S.E. of regression	0.478271	Akaike info criterion	1.45736	
Sum squared resid	14.41081	Schwarz criterion	1.68221	
Log likelihood	-44.00761	Hannan-Quinn criter.	1.546673	
F-statistic	1042.753	Durbin-Watson stat	1.899262	
Prob(F-statistic)	0			
Inverted AR Roots	1	.86+.50i	.86-.50i	.50+.86i
	.50-.86i	.00+1.00i	-.00-1.00i	-.50+.86i
	-.50-.86i	-0.71	-.86+.50i	-.86-.50i
	-1			
Inverted MA Roots	0.99	.86+.49i	.86-.49i	.49+.86i
	.49-.86i	.00-.99i	-.00+.99i	-0.39
	-.49-.86i	-.49+.86i	-.86-.49i	-.86+.49i
	-0.99			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09GSS				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/28/18 Time: 10:59				
Sample: 2013M04 2017M12				
Included observations: 57				
Convergence achieved after 19 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2012M04 2013M03				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.059413	0.24742	0.240132	0.8112
_09_HDDS	0.01077	0.001035	10.40561	0
_09_HDDS(-1)	0.010714	0.001121	9.554527	0
AR(3)	-0.409505	0.066625	-6.146422	0
MA(12)	0.890799	0.042977	20.72721	0
R-squared	0.985169	Mean dependent var	8.198732	
Adjusted R-squared	0.984029	S.D. dependent var	8.553681	
S.E. of regression	1.080996	Akaike info criterion	3.077273	
Sum squared resid	60.76469	Schwarz criterion	3.256488	
Log likelihood	-82.70229	Hannan-Quinn criter.	3.146922	
F-statistic	863.5693	Durbin-Watson stat	2.22539	
Prob(F-statistic)	0			
Inverted AR Roots	.37+.64i	.37-.64i	-0.74	
Inverted MA Roots	.96+.26i	.96-.26i	.70-.70i	.70+.70i
	.26-.96i	.26+.96i	-.26+.96i	-.26-.96i
	-.70-.70i	-.70-.70i	-.96+.26i	-.96-.26i

Dependent Variable: _19GSS				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 09/27/18 Time: 14:51				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 9 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.678163	0.775092	-0.874945	0.3856
_19_HDDS	0.00885	0.001381	6.410168	0
_19_HDDS(-1)	0.012345	0.001364	9.05194	0
AR(1)	-0.337673	0.140669	-2.400473	0.0199
SAR(12)	0.830495	0.071605	11.59836	0
SIGMASQ	1.554919	0.300238	5.178961	0
R-squared	0.974145	Mean dependent var	7.376682	
Adjusted R-squared	0.971706	S.D. dependent var	7.821562	
S.E. of regression	1.315655	Akaike info criterion	3.722767	
Sum squared resid	91.74023	Schwarz criterion	3.934042	
Log likelihood	-103.8216	Hannan-Quinn criter.	3.80524	
F-statistic	399.3784	Durbin-Watson stat	1.749998	
Prob(F-statistic)	0			
Inverted AR Roots	0.98	.85+.49i	.85-.49i	.49-.85i
	.49+.85i	.00+.98i	-.00-.98i	-0.34
	-.49-.85i	-.49+.85i	-.85+.49i	-.85-.49i
	-0.98			

Dependent Variable: _20GSS				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 09/27/18 Time: 15:00				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 8 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.150463	3.444895	0.043677	0.9653
_20_HDDS	0.011251	0.002394	4.699799	0
_20_HDDS(-1)	0.018547	0.002373	7.816688	0
AR(1)	0.793618	0.048913	16.22511	0
SAR(12)	0.536998	0.087825	6.114411	0
SIGMASQ	6.38667	0.74238	8.602965	0
R-squared	0.935415	Mean dependent var	9.411871	
Adjusted R-squared	0.931221	S.D. dependent var	10.00471	
S.E. of regression	2.623801	Akaike info criterion	4.898648	
Sum squared resid	530.0936	Schwarz criterion	5.073504	
Log likelihood	-197.2939	Hannan-Quinn criter.	4.968895	
F-statistic	223.0465	Durbin-Watson stat	2.096313	
Prob(F-statistic)	0			
Inverted AR Roots	0.95	.82-.47i	.82+.47i	0.79
	.47+.82i	.47-.82i	.00+.95i	-.00-.95i
	-.47+.82i	-.47-.82i	-.82+.47i	-.82-.47i
	-0.95			

Exhibit DLP – 1

18-KGSG-560-RTS

Regression Results

Dependent Variable: _09GSL				
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)				
Date: 09/28/18 Time: 10:58				
Sample (adjusted): 2013M12 2017M12				
Included observations: 49 after adjustments				
Failure to improve likelihood (non-zero gradients) after 20 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2013M09 2013M11				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8.134265	1.898509	4.284553	0.0001
_09_HDDS	0.041794	0.005415	7.718297	0
_09_HDDS(-1)	0.046765	0.004431	10.55306	0
AR(12)	0.674556	0.110138	6.124653	0
MA(3)	-0.542145	0.159564	-3.397668	0.0015
R-squared	0.983062	Mean dependent var	45.61491	
Adjusted R-squared	0.981522	S.D. dependent var	37.63306	
S.E. of regression	5.115641	Akaike info criterion	6.198934	
Sum squared resid	1151.471	Schwarz criterion	6.391976	
Log likelihood	-146.8739	Hannan-Quinn criter.	6.272174	
F-statistic	638.4119	Durbin-Watson stat	2.409485	
Prob(F-statistic)	0			
Inverted AR Roots	0.97	.84-.48i	.84+.48i	.48+.84i
	.48-.84i	.00+.97i	-.00-.97i	-.48+.84i
	-.48-.84i	-.84-.48i	-.84+.48i	-.07
Inverted MA Roots	0.82	-.41+.71i	-.41-.71i	

Dependent Variable: _19GSL				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 14:18				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 20 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2012M02 2013M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7.1343	1.532744	4.654592	0
_19_HDDS	0.041193	0.006778	6.077293	0
_19_HDDS(-1)	0.048321	0.006188	7.809119	0
MA(12)	0.876237	0.042289	20.72003	0
R-squared	0.974796	Mean dependent var	41.71119	
Adjusted R-squared	0.973421	S.D. dependent var	34.12574	
S.E. of regression	5.563557	Akaike info criterion	6.335741	
Sum squared resid	1702.424	Schwarz criterion	6.476591	
Log likelihood	-182.9044	Hannan-Quinn criter.	6.390723	
F-statistic	709.0541	Durbin-Watson stat	1.681847	
Prob(F-statistic)	0			
Inverted MA Roots	.96+.26i	.96-.26i	.70-.70i	.70+.70i
	.26+.96i	.26-.96i	-.26+.96i	-.26-.96i
	-.70-.70i	-.70-.70i	-.96-.26i	-.96+.26i

Dependent Variable: _20GSL				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 14:25				
Sample (adjusted): 2013M12 2017M12				
Included observations: 49 after adjustments				
Convergence achieved after 36 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2013M11				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	5.865783	1.84421	3.180648	0.0027
_20_HDDS	0.025916	0.00548	4.728812	0
_20_HDDS(-1)	0.05312	0.004953	10.7253	0
AR(12)	0.812171	0.070191	11.57089	0
MA(1)	-0.943345	0.155464	-6.067941	0
R-squared	0.981679	Mean dependent var	39.56055	
Adjusted R-squared	0.980013	S.D. dependent var	33.77731	
S.E. of regression	4.775246	Akaike info criterion	6.061219	
Sum squared resid	1003.331	Schwarz criterion	6.254262	
Log likelihood	-143.4999	Hannan-Quinn criter.	6.134459	
F-statistic	589.3989	Durbin-Watson stat	1.654622	
Prob(F-statistic)	0			
Inverted AR Roots	0.98	.85+.49i	.85-.49i	.49+.85i
	.49-.85i	-.00-.98i	-.00+.98i	-.49-.85i
	-.49+.85i	-.85+.49i	-.85-.49i	-.098
Inverted MA Roots	0.94			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09GSTE				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 09/28/18 Time: 10:59				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 10 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	60.47086	9.415248	6.422652	0
_09_HDDS	0.187943	0.017786	10.56667	0
_09_HDDS(-1)	0.17897	0.019054	9.392632	0
AR(12)	0.583685	0.127003	4.595856	0
SIGMASQ	475.4664	84.86968	5.602312	0
R-squared	0.97737	Mean dependent var	209.857	
Adjusted R-squared	0.975693	S.D. dependent var	146.1927	
S.E. of regression	22.79235	Akaike info criterion	9.256389	
Sum squared resid	28052.52	Schwarz criterion	9.432451	
Log likelihood	-268.0635	Hannan-Quinn criter.	9.325116	
F-statistic	583.0421	Durbin-Watson stat	1.583646	
Prob(F-statistic)	0			
Inverted AR Roots	0.96	.83+.48i	.83-.48i	.48+.83i
	.48-.83i	.00+.96i	-.00-.96i	-.48+.83i
	-.48-.83i	-.83+.48i	-.83-.48i	-.096

Dependent Variable: _19GSTE				
Method: Least Squares				
Date: 09/27/18 Time: 15:40				
Sample: 2013M01 2017M12				
Included observations: 60				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	53.12107	9.752632	5.446844	0
_19_HDDS	0.181899	0.029452	6.176148	0
_19_HDDS(-1)	0.220951	0.029641	7.45415	0
R-squared	0.897675	Mean dependent var	210.7631	
Adjusted R-squared	0.894085	S.D. dependent var	160.3355	
S.E. of regression	52.18054	Akaike info criterion	10.796	
Sum squared resid	155200.1	Schwarz criterion	10.90072	
Log likelihood	-320.8801	Hannan-Quinn criter.	10.83696	
F-statistic	250.0251	Durbin-Watson stat	1.429952	
Prob(F-statistic)	0			

Dependent Variable: _20GSTE				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 09/27/18 Time: 15:44				
Sample: 2012M12 2017M12				
Included observations: 61				
Convergence achieved after 5 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	64.99215	19.41122	3.348174	0.0015
_20_HDDS	0.163117	0.059724	2.73118	0.0084
_20_HDDS(-1)	0.183174	0.057095	3.208251	0.0022
AR(12)	0.385805	0.105042	3.672875	0.0005
SIGMASQ	1925.921	234.359	8.217823	0
R-squared	0.882541	Mean dependent var	188.6191	
Adjusted R-squared	0.874151	S.D. dependent var	129.1118	
S.E. of regression	45.8026	Akaike info criterion	10.59668	
Sum squared resid	117481.2	Schwarz criterion	10.7697	
Log likelihood	-318.1986	Hannan-Quinn criter.	10.66448	
F-statistic	105.1908	Durbin-Watson stat	1.888796	
Prob(F-statistic)	0			
Inverted AR Roots	0.92	.80+.46i	.80-.46i	.46+.80i
	.46-.80i	.00-.92i	-.00+.92i	-.46+.80i
	-.46-.80i	-.80-.46i	-.80+.46i	-.092

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09STK				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 10:51				
Sample: 2011M07 2017M12				
Included observations: 78				
Convergence achieved after 30 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	45.58423	10.26138	4.442311	0
_09_HDDS	0.231316	0.008808	26.26343	0
AR(1)	0.672039	0.066247	10.14441	0
SIGMASQ	224.9653	25.2759	8.900386	0
R-squared	0.972927	Mean dependent var	136.1062	
Adjusted R-squared	0.971829	S.D. dependent var	91.74686	
S.E. of regression	15.39888	Akaike info criterion	8.36409	
Sum squared resid	17547.29	Schwarz criterion	8.484947	
Log likelihood	-322.1995	Hannan-Quinn criter.	8.412471	
F-statistic	886.4489	Durbin-Watson stat	1.812569	
Prob(F-statistic)	0			
Inverted AR Roots	0.67			

Dependent Variable: _19STK				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 11:02				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 61 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	40.41614	20.98185	1.926243	0.0578
_19_HDDS	0.237234	0.015333	15.47242	0
_19_HDDS(-1)	0.042101	0.013543	3.108647	0.0026
AR(1)	0.664782	0.087307	7.61431	0
SAR(12)	0.46011	0.101328	4.540796	0
MA(1)	0.431453	0.105139	4.103645	0.0001
SIGMASQ	222.5261	30.22122	7.36324	0
R-squared	0.979043	Mean dependent var	142.0445	
Adjusted R-squared	0.977389	S.D. dependent var	103.672	
S.E. of regression	15.58916	Akaike info criterion	8.461656	
Sum squared resid	18469.67	Schwarz criterion	8.665655	
Log likelihood	-344.1587	Hannan-Quinn criter.	8.543611	
F-statistic	591.7551	Durbin-Watson stat	2.086465	
Prob(F-statistic)	0			
Inverted AR Roots	0.94	.81+.47i	.81-.47i	0.66
	.47+.81i	.47-.81i	.00-.94i	-.00+.94i
	-.47-.81i	-.47+.81i	-.81+.47i	-.81-.47i
	-0.94			
Inverted MA Roots	-0.43			

Dependent Variable: _20STK				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 10/05/18 Time: 11:08				
Sample (adjusted): 2012M03 2017M12				
Included observations: 70 after adjustments				
Convergence achieved after 18 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	50.605	4.029521	12.55857	0
_20_HDDS	0.242891	0.013199	18.40279	0
_20_HDDS(-1)	0.032989	0.015276	2.159599	0.0345
AR(1)	0.232764	0.138823	1.676692	0.0984
SAR(12)	0.452924	0.161921	2.797185	0.0068
R-squared	0.978881	Mean dependent var	149.0039	
Adjusted R-squared	0.977581	S.D. dependent var	105.2367	
S.E. of regression	15.7569	Akaike info criterion	8.421182	
Sum squared resid	16138.18	Schwarz criterion	8.581789	
Log likelihood	-289.7414	Hannan-Quinn criter.	8.484977	
F-statistic	753.2025	Durbin-Watson stat	1.952227	
Prob(F-statistic)	0			
Inverted AR Roots	0.94	.81+.47i	.81-.47i	.47+.81i
	.47-.81i	0.23	.00-.94i	-.00+.94i
	-.47-.81i	-.47+.81i	-.81+.47i	-.81-.47i
	-0.94			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09STT				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/28/18 Time: 11:00				
Sample (adjusted): 2011M03 2017M12				
Included observations: 82 after adjustments				
Convergence achieved after 9 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.02921	1.256617	-0.023245	0.9815
_09_HDDS	0.257425	0.003933	65.45606	0
AR(2)	-0.366092	0.138205	-2.648911	0.0097
R-squared	0.972321	Mean dependent var	99.75	
Adjusted R-squared	0.97162	S.D. dependent var	103.8103	
S.E. of regression	17.48813	Akaike info criterion	8.596821	
Sum squared resid	24160.93	Schwarz criterion	8.684871	
Log likelihood	-349.4697	Hannan-Quinn criter.	8.632172	
F-statistic	1387.583	Durbin-Watson stat	2.042415	
Prob(F-statistic)	0			
Inverted AR Roots	-.00+.61i	-.00-.61i		

Dependent Variable: _19STT				
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)				
Date: 10/05/18 Time: 12:47				
Sample (adjusted): 2012M03 2017M12				
Included observations: 70 after adjustments				
Convergence achieved after 8 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	37.63618	6.02124	6.25057	0
_19_HDDS	0.215357	0.014227	15.13698	0
_19_HDDS(-1)	0.039659	0.008959	4.426772	0
AR(1)	0.530516	0.126778	4.18462	0.0001
SAR(12)	0.553415	0.100204	5.522893	0
R-squared	0.989227	Mean dependent var	136.3162	
Adjusted R-squared	0.988564	S.D. dependent var	96.05848	
S.E. of regression	10.27235	Akaike info criterion	7.565538	
Sum squared resid	6858.877	Schwarz criterion	7.726145	
Log likelihood	-259.7938	Hannan-Quinn criter.	7.629333	
F-statistic	1492.165	Durbin-Watson stat	1.953047	
Prob(F-statistic)	0			
Inverted AR Roots	0.95	.82-.48i	.82+.48i	0.53
	.48+.82i	.48-.82i	.00+.95i	-.00-.95i
	-.48+.82i	-.48-.82i	-.82+.48i	-.82-.48i
	-0.95			

Dependent Variable: _20STT				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 13:26				
Sample (adjusted): 2012M02 2017M12				
Included observations: 71 after adjustments				
Convergence achieved after 16 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	35.13523	3.90971	8.986659	0
_20_HDDS	0.218587	0.007731	28.2728	0
_20_HDDS(-1)	0.030141	0.005607	5.375616	0
AR(1)	0.20143	0.072932	2.76188	0.0074
AR(12)	0.380874	0.109872	3.466509	0.0009
R-squared	0.987944	Mean dependent var	120.8293	
Adjusted R-squared	0.987213	S.D. dependent var	87.284	
S.E. of regression	9.869866	Akaike info criterion	7.48467	
Sum squared resid	6429.341	Schwarz criterion	7.644013	
Log likelihood	-260.7058	Hannan-Quinn criter.	7.548035	
F-statistic	1352.126	Durbin-Watson stat	2.156134	
Prob(F-statistic)	0			
Inverted AR Roots	0.94	.82-.46i	.82+.46i	.48-.80i
	.48+.80i	.02-.92i	.02+.92i	-.45+.80i
	-.45-.80i	-.78+.46i	-.78-.46i	-0.91

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09LVTK_T1				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/15/18 Time: 15:03				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 8 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	73.35726	65.89206	1.113294	0.2704
_09_HDDS	0.934112	0.031724	29.44537	0
AR(1)	0.763825	0.084346	9.055869	0
SAR(12)	0.523258	0.106909	4.894447	0
SIGMASQ	2840.211	560.2041	5.069957	0
R-squared	0.977925	Mean dependent var	437.439	
Adjusted R-squared	0.97632	S.D. dependent var	361.7253	
S.E. of regression	55.66338	Akaike info criterion	11.03545	
Sum squared resid	170412.6	Schwarz criterion	11.20998	
Log likelihood	-326.0636	Hannan-Quinn criter.	11.10372	
F-statistic	609.139	Durbin-Watson stat	1.713271	
Prob(F-statistic)	0			
Inverted AR Roots	0.95	.82+.47i	.82-.47i	0.76
	.47+.82i	.47-.82i	.00+.95i	-.00-.95i
	-.47+.82i	-.47-.82i	-.82+.47i	-.82-.47i
	-0.95			

Dependent Variable: _19LVTK_T1				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 15:48				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 20 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	140.8564	76.31784	1.845655	0.0704
_19_HDDS	0.731821	0.071205	10.2777	0
AR(1)	0.888959	0.069852	12.72627	0
AR(6)	-0.138214	0.061582	-2.244377	0.0289
SIGMASQ	7212.838	973.0777	7.412397	0
R-squared	0.935531	Mean dependent var	425.1646	
Adjusted R-squared	0.930756	S.D. dependent var	337.357	
S.E. of regression	88.77327	Akaike info criterion	11.91861	
Sum squared resid	425557.5	Schwarz criterion	12.09468	
Log likelihood	-346.5991	Hannan-Quinn criter.	11.98734	
F-statistic	195.903	Durbin-Watson stat	2.071142	
Prob(F-statistic)	0			
Inverted AR Roots	.85+.25i	.85-.25i	.12+.66i	.12-.66i
	-.52-.34i	-.52+.34i		

Dependent Variable: _20LVTK_T1				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/16/18 Time: 16:45				
Sample: 2013M07 2017M12				
Included observations: 54				
Convergence achieved after 35 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	127.8464	18.7066	6.834293	0
_20_HDDS	0.75995	0.028734	26.44798	0
AR(10)	-0.405034	0.106817	-3.791831	0.0004
MA(1)	0.54396	0.098394	5.528388	0
SIGMASQ	2779.392	441.8037	6.291012	0
R-squared	0.964683	Mean dependent var	384.2239	
Adjusted R-squared	0.961799	S.D. dependent var	283.1646	
S.E. of regression	55.34441	Akaike info criterion	10.99276	
Sum squared resid	150087.2	Schwarz criterion	11.17693	
Log likelihood	-291.8046	Hannan-Quinn criter.	11.06379	
F-statistic	334.6038	Durbin-Watson stat	1.814797	
Prob(F-statistic)	0			
Inverted AR Roots	.87-.28i	.87+.28i	.54-.74i	.54+.74i
	.00-.91i	-.00+.91i	-.54-.74i	-.54+.74i
	-.87+.28i	-.87-.28i		
Inverted MA Roots	-0.54			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09LVTK_T2				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 10/15/18 Time: 15:46				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 7 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	501.3091	86.77429	5.777162	0
_09_HDDS	1.785839	0.090295	19.77784	0
AR(1)	0.598072	0.094474	6.330529	0
AR(11)	0.317654	0.096563	3.289596	0.0018
SIGMASQ	8116.132	1738.737	4.667831	0
R-squared	0.98218	Mean dependent var	1212.314	
Adjusted R-squared	0.98086	S.D. dependent var	680.6561	
S.E. of regression	94.16807	Akaike info criterion	12.05598	
Sum squared resid	478851.8	Schwarz criterion	12.23204	
Log likelihood	-350.6514	Hannan-Quinn criter.	12.12471	
F-statistic	744.0585	Durbin-Watson stat	1.703567	
Prob(F-statistic)	0			
Inverted AR Roots	0.98	.83-.47i	.83+.47i	.43+.80i
		.43-.80i	-.08+.88i	-.55+.67i
		-.55-.67i	-.82-.25i	

Dependent Variable: _19LVTK_T2				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/26/18 Time: 14:59				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 10 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	470.3029	39.22095	11.99111	0
_19_HDDS	1.817163	0.087984	20.65338	0
AR(1)	0.658572	0.110763	5.945799	0
R-squared	0.974857	Mean dependent var	1162.01	
Adjusted R-squared	0.973959	S.D. dependent var	725.4947	
S.E. of regression	117.0754	Akaike info criterion	12.41302	
Sum squared resid	767572	Schwarz criterion	12.51866	
Log likelihood	-363.1842	Hannan-Quinn criter.	12.45426	
F-statistic	1085.616	Durbin-Watson stat	2.177564	
Prob(F-statistic)	0			
Inverted AR Roots	0.66			

Dependent Variable: _20LVTK_T2				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 10/15/18 Time: 15:07				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 5 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	697.9668	50.23351	13.89445	0
_20_HDDS	1.726986	0.034706	49.76058	0
AR(1)	0.573598	0.101962	5.625597	0
AR(5)	0.229244	0.095769	2.393726	0.0201
SIGMASQ	7886.471	1830.885	4.307464	0.0001
R-squared	0.980425	Mean dependent var	1284.988	
Adjusted R-squared	0.979001	S.D. dependent var	640.0879	
S.E. of regression	92.75464	Akaike info criterion	11.99312	
Sum squared resid	473188.2	Schwarz criterion	12.16765	
Log likelihood	-354.7935	Hannan-Quinn criter.	12.06139	
F-statistic	688.675	Durbin-Watson stat	1.975341	
Prob(F-statistic)	0			
Inverted AR Roots	0.91	.34+.67i	.34-.67i	-.51-.42i
		-.51+.42i		

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09LVTK_T3				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/16/18 Time: 10:27				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 12 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1634.032	59.52022	27.45339	0
_09_HDDS	1.990294	0.082237	24.20195	0
MA(1)	0.518683	0.121832	4.257348	0.0001
SIGMASQ	28306.25	4322.595	6.548438	0
R-squared	0.959764	Mean dependent var	2456.373	
Adjusted R-squared	0.957609	S.D. dependent var	845.8341	
S.E. of regression	174.1497	Akaike info criterion	13.22727	
Sum squared resid	1698375	Schwarz criterion	13.36689	
Log likelihood	-392.8181	Hannan-Quinn criter.	13.28189	
F-statistic	445.2667	Durbin-Watson stat	2.044291	
Prob(F-statistic)	0			
Inverted MA Roots	-0.52			

Dependent Variable: _19LVTK_T3				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 10/16/18 Time: 10:52				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 6 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1765.808	150.0349	11.76931	0
_19_HDDS	1.831345	0.216227	8.46954	0
AR(1)	0.804887	0.079295	10.15059	0
AR(4)	-0.290056	0.071321	-4.066902	0.0002
SIGMASQ	129320.2	29522.07	4.38046	0.0001
R-squared	0.860943	Mean dependent var	2481.268	
Adjusted R-squared	0.85083	S.D. dependent var	972.4942	
S.E. of regression	375.6017	Akaike info criterion	14.80004	
Sum squared resid	7759214	Schwarz criterion	14.97457	
Log likelihood	-439.0011	Hannan-Quinn criter.	14.86831	
F-statistic	85.13059	Durbin-Watson stat	1.825483	
Prob(F-statistic)	0			
Inverted AR Roots	.77+.42i	.77-.42i	-.37-.48i	-.37+.48i

Dependent Variable: _20LVTK_T3				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/15/18 Time: 15:07				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 12 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1701.403	92.24039	18.44532	0
_20_HDDS	2.108448	0.128643	16.38997	0
AR(1)	0.805153	0.08611	9.350257	0
MA(8)	-0.496645	0.17438	-2.848058	0.0062
SMA(12)	0.414578	0.155623	2.663982	0.0102
SIGMASQ	19668.31	4604.504	4.271537	0.0001
R-squared	0.972905	Mean dependent var	2426.696	
Adjusted R-squared	0.970396	S.D. dependent var	859.1919	
S.E. of regression	147.8299	Akaike info criterion	13.01828	
Sum squared resid	1180099	Schwarz criterion	13.22771	
Log likelihood	-384.5483	Hannan-Quinn criter.	13.1002	
F-statistic	387.8005	Durbin-Watson stat	2.265024	
Prob(F-statistic)	0			
Inverted AR Roots	0.81			
Inverted MA Roots	0.92	.90-.24i	.90+.24i	.66+.66i
		.66-.66i	.65-.65i	.24+.90i
		.24-.90i	.00-.92i	-.24-.90i
		-.24+.90i	-.65+.65i	-.65-.65i
		-.66+.66i	-.90+.24i	-.90-.24i

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09LVTK_T4				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/15/18 Time: 15:59				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 12 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6312.694	75.92458	83.14427	0
_09_HDDS	3.900549	0.185325	21.04711	0
_09_HDDS(-1)	0.464842	0.156599	2.968357	0.0045
AR(6)	-0.342067	0.121159	-2.823286	0.0066
AR(2)	0.542873	0.127717	4.250606	0.0001
SIGMASQ	84005.56	19834.8	4.235261	0.0001
R-squared	0.973257	Mean dependent var	8128.946	
Adjusted R-squared	0.970781	S.D. dependent var	1787.31	
S.E. of regression	305.5152	Akaike info criterion	14.40192	
Sum squared resid	5040333	Schwarz criterion	14.61136	
Log likelihood	-426.0577	Hannan-Quinn criter.	14.48385	
F-statistic	393.0465	Durbin-Watson stat	1.426101	
Prob(F-statistic)	0			
Inverted AR Roots	.82-.34i	.82+.34i	.00-.75i	-.00+.75i
	-.82-.34i	-.82+.34i		
	-0.94			

Dependent Variable: _19LVTK_T4				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 10/15/18 Time: 16:13				
Sample (adjusted): 2014M02 2017M12				
Included observations: 47 after adjustments				
Convergence achieved after 16 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
MA Backcast: 2013M12 2014M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7293.235	279.6179	26.08286	0
_19_HDDS	5.000711	0.258035	19.38	0
AR(1)	0.539371	0.114874	4.695326	0
SAR(12)	0.284561	0.118116	2.409161	0.0205
MA(2)	0.600498	0.123538	4.860815	0
R-squared	0.965297	Mean dependent var	9172.208	
Adjusted R-squared	0.961992	S.D. dependent var	2026.026	
S.E. of regression	394.987	Akaike info criterion	14.89587	
Sum squared resid	6552618	Schwarz criterion	15.09269	
Log likelihood	-345.053	Hannan-Quinn criter.	14.96994	
F-statistic	292.0674	Durbin-Watson stat	2.084288	
Prob(F-statistic)	0			
Inverted AR Roots	0.9	.78+.45i	.78-.45i	0.54
	.45-.78i	.45+.78i	.00+.90i	-.00-.90i
	-.45-.78i	-.45+.78i	-.78+.45i	-.78-.45i
	-0.9			
Inverted MA Roots	-.00+.77i	-.00-.77i		

Dependent Variable: _20LVTK_T4				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/16/18 Time: 16:52				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 26 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8328.621	313.3959	26.5754	0
_20_HDDS	4.182075	0.318078	13.14794	0
AR(1)	0.328971	0.134148	2.452293	0.0175
AR(6)	0.281523	0.108624	2.591718	0.0123
MA(12)	0.326979	0.155557	2.101986	0.0402
SIGMASQ	440373.3	92819.79	4.744391	0
R-squared	0.844257	Mean dependent var	9716.876	
Adjusted R-squared	0.829836	S.D. dependent var	1695.726	
S.E. of regression	699.5025	Akaike info criterion	16.07258	
Sum squared resid	26422401	Schwarz criterion	16.28202	
Log likelihood	-476.1775	Hannan-Quinn criter.	16.1545	
F-statistic	58.54491	Durbin-Watson stat	2.150805	
Prob(F-statistic)	0			
Inverted AR Roots	0.88	.46+.69i	.46-.69i	-.36-.69i
	-.36+.69i	-0.76		
Inverted MA Roots	.88+.24i	.88-.24i	.64+.64i	.64-.64i
	.24+.88i	.24-.88i	-.24+.88i	-.24-.88i
	-.64+.64i	-.64+.64i	-.88+.24i	-.88-.24i

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _19LVTT_T1
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)
Date: 10/06/18 Time: 13:39
Sample (adjusted): 2011M11 2017M12
Included observations: 74 after adjustments
Convergence achieved after 10 iterations
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-806.2978	1520.429	-0.53031	0.5976
_19_HDDS	1.429184	0.616394	2.318621	0.0234
_19LVTT_T1_DUMB	2038.204	871.3762	2.339064	0.0222
AR(1)	0.555509	0.167765	3.311226	0.0015
AR(10)	0.341027	0.104973	3.248718	0.0018
R-squared	0.877703	Mean dependent var	1541.936	
Adjusted R-squared	0.870613	S.D. dependent var	2377.298	
S.E. of regression	855.1239	Akaike info criterion	16.40555	
Sum squared resid	50455349	Schwarz criterion	16.56123	
Log likelihood	-602.0052	Hannan-Quinn criter.	16.46765	
F-statistic	123.7997	Durbin-Watson stat	1.857667	
Prob(F-statistic)	0			
Inverted AR Roots	0.98	.79+.51i	.79-.51i	.33-.84i
		.33+.84i	-.23+.84i	-.23-.84i
		-.68-.52i	-0.85	

Dependent Variable: _19LVTT_T2
Method: ARMA Maximum Likelihood (OPG - BHHH)
Date: 10/06/18 Time: 14:01
Sample: 2013M01 2017M12
Included observations: 60
Convergence achieved after 92 iterations
Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	506.296	281.3864	1.799291	0.0775
_19_HDDS	2.493427	0.117214	21.27239	0
AR(1)	0.951634	0.050999	18.66	0
MA(4)	-0.585855	0.176905	-3.311687	0.0016
SIGMASQ	45318.08	7064.456	6.414942	0
R-squared	0.954821	Mean dependent var	1346.323	
Adjusted R-squared	0.951536	S.D. dependent var	1009.993	
S.E. of regression	222.3464	Akaike info criterion	13.77154	
Sum squared resid	2719085	Schwarz criterion	13.94607	
Log likelihood	-408.1463	Hannan-Quinn criter.	13.83981	
F-statistic	290.5968	Durbin-Watson stat	1.41075	
Prob(F-statistic)	0			
Inverted AR Roots	0.95			
Inverted MA Roots	0.87	-.00+.87i	-.00-.87i	-0.87

Dependent Variable: _20LVTT_T1
Method: ARMA Maximum Likelihood (OPG - BHHH)
Date: 10/16/18 Time: 17:12
Sample: 2013M12 2017M12
Included observations: 49
Convergence achieved after 27 iterations
Coefficient covariance computed using outer product of gradients

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	126.5913	47.35947	2.672987	0.0106
_20_HDDS	1.162007	0.042368	27.42665	0
MA(1)	0.459001	0.177188	2.590472	0.013
MA(2)	0.407789	0.158898	2.566357	0.0138
MA(3)	0.557641	0.175002	3.186476	0.0027
SIGMASQ	6482.477	1081.228	5.995474	0
R-squared	0.966337	Mean dependent var	534.8314	
Adjusted R-squared	0.962423	S.D. dependent var	443.3782	
S.E. of regression	85.94771	Akaike info criterion	11.88608	
Sum squared resid	317641.4	Schwarz criterion	12.11773	
Log likelihood	-285.2089	Hannan-Quinn criter.	11.97397	
F-statistic	246.8767	Durbin-Watson stat	2.003113	
Prob(F-statistic)	0			
Inverted MA Roots	.17+.81i	.17-.81i	-0.81	

Dependent Variable: _20LVTT_T2
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)
Date: 09/27/18 Time: 12:31
Sample (adjusted): 2013M02 2017M12
Included observations: 59 after adjustments
Convergence achieved after 8 iterations
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	819.9363	88.88608	9.224575	0
_20_HDDS	1.260877	0.137471	9.171925	0
AR(1)	0.380072	0.163442	2.325432	0.0237
R-squared	0.721462	Mean dependent var	1253.373	
Adjusted R-squared	0.711514	S.D. dependent var	546.4859	
S.E. of regression	293.5226	Akaike info criterion	14.2513	
Sum squared resid	4824708	Schwarz criterion	14.35693	
Log likelihood	-417.4132	Hannan-Quinn criter.	14.29253	
F-statistic	72.52473	Durbin-Watson stat	2.090426	
Prob(F-statistic)	0			
Inverted AR Roots	0.38			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _19LVTT_T3				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/27/18 Time: 08:50				
Sample (adjusted): 2014M02 2017M12				
Included observations: 47 after adjustments				
Convergence achieved after 20 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
MA Backcast: 2014M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	1316.943	296.1485	4.446901	0.0001
_19_HDDS	2.876007	0.712498	4.036514	0.0002
AR(1)	0.567678	0.11202	5.067644	0
SAR(12)	0.354658	0.187155	1.894994	0.065
MA(1)	0.687653	0.10156	6.770919	0
R-squared	0.932669	Mean dependent var	2528.245	
Adjusted R-squared	0.926257	S.D. dependent var	1352.205	
S.E. of regression	367.2014	Akaike info criterion	14.74999	
Sum squared resid	5663149	Schwarz criterion	14.94681	
Log likelihood	-341.6247	Hannan-Quinn criter.	14.82405	
F-statistic	145.446	Durbin-Watson stat	2.101916	
Prob(F-statistic)	0			
Inverted AR Roots	0.92	.79+.46i	.79-.46i	0.57
	.46-.79i	.46+.79i	.00+.92i	-.00-.92i
	-.46-.79i	-.46+.79i	-.79-.46i	-.79+.46i
	-0.92			
Inverted MA Roots	-0.69			

Dependent Variable: _20LVTT_T3				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/16/18 Time: 08:35				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 20 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2173.094	106.8504	20.33771	0
_20_HDDS	0.425027	0.151721	2.801381	0.007
_20LVTT_T3_DUMB	1376.166	736.1415	1.869432	0.067
AR(1)	0.361279	0.169187	2.135379	0.0373
MA(2)	0.381056	0.163489	2.330773	0.0235
SIGMASQ	78474.01	13394.93	5.858488	0
R-squared	0.57982	Mean dependent var	2352.286	
Adjusted R-squared	0.540914	S.D. dependent var	435.8076	
S.E. of regression	295.2852	Akaike info criterion	14.31758	
Sum squared resid	4708441	Schwarz criterion	14.52701	
Log likelihood	-423.5274	Hannan-Quinn criter.	14.3995	
F-statistic	14.90326	Durbin-Watson stat	1.876246	
Prob(F-statistic)	0			
Inverted AR Roots	0.36			
Inverted MA Roots	-.00+.62i	-.00-.62i		

Dependent Variable: _19LVTT_T4				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/06/18 Time: 15:34				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 24 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	6575.573	498.637	13.18709	0
_19_HDDS	14.94157	0.571533	26.14295	0
_19_HDDS(-1)	1.112078	0.63895	1.740478	0.0874
AR(1)	0.788215	0.059886	13.16192	0
SIGMASQ	441381.8	72740.36	6.067907	0
R-squared	0.988855	Mean dependent var	12797.14	
Adjusted R-squared	0.988045	S.D. dependent var	6346.289	
S.E. of regression	693.9073	Akaike info criterion	16.01839	
Sum squared resid	26482905	Schwarz criterion	16.19292	
Log likelihood	-475.5518	Hannan-Quinn criter.	16.08666	
F-statistic	1220.005	Durbin-Watson stat	1.982031	
Prob(F-statistic)	0			
Inverted AR Roots	0.79			

Dependent Variable: _20LVTT_T4				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/16/18 Time: 08:42				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 15 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8220.417	451.4484	18.20898	0
_20_HDDS	1.797278	0.843781	2.130028	0.0377
AR(1)	0.351924	0.122161	2.880819	0.0056
MA(12)	0.297077	0.142242	2.088531	0.0414
SIGMASQ	1.20E+06	239907.9	4.987655	0
R-squared	0.340059	Mean dependent var	8873.73	
Adjusted R-squared	0.292064	S.D. dependent var	1357.9	
S.E. of regression	1142.523	Akaike info criterion	17.0202	
Sum squared resid	7.18E+07	Schwarz criterion	17.19473	
Log likelihood	-505.6061	Hannan-Quinn criter.	17.08847	
F-statistic	7.085203	Durbin-Watson stat	1.910271	
Prob(F-statistic)	0.000113			
Inverted AR Roots	0.35			
Inverted MA Roots	.87+.23i	.87-.23i	.64+.64i	.64-.64i
	.23-.87i	.23+.87i	-.23-.87i	-.23+.87i
	-.64-.64i	-.64+.64i	-.87+.23i	-.87-.23i

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _19GIS				
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)				
Date: 09/26/18 Time: 12:21				
Sample (adjusted): 2011M02 2017M12				
Included observations: 83 after adjustments				
Failure to improve likelihood (non-zero gradients) after 11 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
MA Backcast: 2011M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-6.052132	4.445509	-1.361404	0.1772
_19_CDDS(-1)	0.294913	0.036742	8.026562	0
MA(1)	0.596847	0.092508	6.451845	0
R-squared	0.740674	Mean dependent var	34.93565	
Adjusted R-squared	0.734191	S.D. dependent var	61.12213	
S.E. of regression	31.51256	Akaike info criterion	9.774125	
Sum squared resid	79443.31	Schwarz criterion	9.861553	
Log likelihood	-402.6262	Hannan-Quinn criter.	9.809248	
F-statistic	114.2459	Durbin-Watson stat	2.204535	
Prob(F-statistic)	0			
Inverted MA Roots	-0.6			

Dependent Variable: _19GIT				
Method: Least Squares				
Date: 10/05/18 Time: 15:03				
Sample (adjusted): 2011M02 2017M12				
Included observations: 83 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	13.03377	11.60335	1.123276	0.2647
_19_CDDS(-1)	0.281436	0.050582	5.563961	0
_19GIT_DUMB	817.604	83.63917	9.775371	0
R-squared	0.597882	Mean dependent var	62.13114	
Adjusted R-squared	0.587829	S.D. dependent var	129.1175	
S.E. of regression	82.89415	Akaike info criterion	11.70848	
Sum squared resid	549715.2	Schwarz criterion	11.79591	
Log likelihood	-482.902	Hannan-Quinn criter.	11.7436	
F-statistic	59.47331	Durbin-Watson stat	2.189255	
Prob(F-statistic)	0			

Dependent Variable: _20GIS				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 09/27/18 Time: 10:35				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 7 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	16.24143	7.299355	2.22505	0.0291
_20_CDDS	0.142943	0.019431	7.356563	0
_20_CDDS(-1)	0.234726	0.01759	13.34407	0
_20_PCP	-1.970355	0.463572	-4.250378	0.0001
_20_PCP(-1)	-3.055716	0.477524	-6.399086	0
AR(2)	-0.145339	0.069242	-2.098995	0.0392
AR(12)	0.679103	0.052006	13.05817	0
SIGMASQ	197.9684	24.80928	7.97961	0
R-squared	0.964514	Mean dependent var	62.91708	
Adjusted R-squared	0.961202	S.D. dependent var	75.14493	
S.E. of regression	14.80152	Akaike info criterion	8.414521	
Sum squared resid	16431.37	Schwarz criterion	8.647662	
Log likelihood	-341.2026	Hannan-Quinn criter.	8.508184	
F-statistic	291.2131	Durbin-Watson stat	1.607952	
Prob(F-statistic)	0			

Dependent Variable: _20GIT				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 15:11				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 62 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	143.4238	37.54126	3.820432	0.0003
_20_CDDS(-1)	0.307872	0.050146	6.139478	0
_20_PCP(-1)	-6.76343	1.19272	-5.670593	0
AR(11)	0.611734	0.059038	10.36172	0
SAR(12)	0.909583	0.033425	27.21233	0
MA(2)	-0.451276	0.123994	-3.639487	0.0005
SIGMASQ	1496.693	216.9036	6.900268	0
R-squared	0.954259	Mean dependent var	162.3504	
Adjusted R-squared	0.950648	S.D. dependent var	181.9889	
S.E. of regression	40.42952	Akaike info criterion	10.63877	
Sum squared resid	124225.5	Schwarz criterion	10.84277	
Log likelihood	-434.5089	Hannan-Quinn criter.	10.72072	
F-statistic	264.2537	Durbin-Watson stat	1.617165	
Prob(F-statistic)	0			
Inverted AR Roots	0.99	0.96	.86+.50i	.86-.50i
	.80+.52i	.80-.52i	.50+.86i	.50-.86i
	.40+.87i	.40-.87i	.00+.99i	-.00-.99i
	-.14+.95i	-.14-.95i	-.50+.86i	-.50-.86i
	-.63-.72i	-.63+.72i	-.86+.50i	-.86-.50i
	-.92+.27i	-.92-.27i	-0.99	
Inverted MA Roots	0.67	-0.67		

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09CNGK				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 13:46				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 11 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	840.5176	114.1812	7.361258	0
_09_HDDS(-1)	0.376456	0.161403	2.3324	0.0233
MA(1)	0.948233	0.107753	8.800026	0
SIGMASQ	90585.16	14308.67	6.330786	0
R-squared	0.592981	Mean dependent var	991.2653	
Adjusted R-squared	0.571176	S.D. dependent var	475.7412	
S.E. of regression	311.5374	Akaike info criterion	14.42347	
Sum squared resid	5435109	Schwarz criterion	14.56309	
Log likelihood	-428.704	Hannan-Quinn criter.	14.47808	
F-statistic	27.19523	Durbin-Watson stat	1.639911	
Prob(F-statistic)	0			
Inverted MA Roots	-0.95			

Dependent Variable: _19CNGK				
Method: Least Squares				
Date: 09/27/18 Time: 13:39				
Sample: 2014M04 2017M12				
Included observations: 45				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	8942.594	437.468	20.44171	0
_19_HDDS	1.012699	1.346183	0.752274	0.4561
_19_HDDS(-1)	-0.264267	1.379733	-0.191535	0.849
R-squared	0.022216	Mean dependent var	9198.711	
Adjusted R-squared	-0.024345	S.D. dependent var	2066.169	
S.E. of regression	2091.169	Akaike info criterion	18.19317	
Sum squared resid	1.84E+08	Schwarz criterion	18.31362	
Log likelihood	-406.3464	Hannan-Quinn criter.	18.23807	
F-statistic	0.47714	Durbin-Watson stat	0.16751	
Prob(F-statistic)	0.623878			

Dependent Variable: _20CNGK				
Method: Least Squares				
Date: 09/27/18 Time: 13:42				
Sample (adjusted): 2015M11 2017M12				
Included observations: 26 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	294.83	19.27514	15.29587	0
_20_HDDS	-0.054231	0.059841	-0.90624	0.3742
_20_HDDS(-1)	-0.074175	0.062914	-1.178982	0.2505
R-squared	0.271504	Mean dependent var	254.0769	
Adjusted R-squared	0.208157	S.D. dependent var	75.96206	
S.E. of regression	67.59526	Akaike info criterion	11.37312	
Sum squared resid	105089.8	Schwarz criterion	11.51828	
Log likelihood	-144.8506	Hannan-Quinn criter.	11.41492	
F-statistic	4.285956	Durbin-Watson stat	1.106888	
Prob(F-statistic)	0.026176			

Dependent Variable: _20CNGT				
Method: Least Squares				
Date: 09/27/18 Time: 13:43				
Sample (adjusted): 2016M12 2017M12				
Included observations: 13 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	2634.332	303.3687	8.6836	0
_20_HDDS	-0.835614	0.825562	-1.012176	0.3353
_20_HDDS(-1)	-0.401809	0.906785	-0.443114	0.6671
R-squared	0.279234	Mean dependent var	2194.077	
Adjusted R-squared	0.135081	S.D. dependent var	785.8381	
S.E. of regression	730.8376	Akaike info criterion	16.22543	
Sum squared resid	5341236	Schwarz criterion	16.35581	
Log likelihood	-102.4653	Hannan-Quinn criter.	16.19864	
F-statistic	1.937063	Durbin-Watson stat	0.701732	
Prob(F-statistic)	0.194523			

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _09SGS				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/28/18 Time: 11:00				
Sample (adjusted): 2011M03 2017M12				
Included observations: 82 after adjustments				
Convergence achieved after 14 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-0.14884	0.128132	-1.161621	0.2489
_09_HDDS	0.002535	0.000379	6.694834	0
_09_HDDS(-1)	0.002197	0.000562	3.910127	0.0002
AR(1)	0.556422	0.210528	2.642984	0.0099
R-squared	0.874342	Mean dependent var	1.731119	
Adjusted R-squared	0.869509	S.D. dependent var	1.921635	
S.E. of regression	0.694163	Akaike info criterion	2.15533	
Sum squared resid	37.58525	Schwarz criterion	2.272731	
Log likelihood	-84.36855	Hannan-Quinn criter.	2.202465	
F-statistic	180.9106	Durbin-Watson stat	1.695816	
Prob(F-statistic)	0			
Inverted AR Roots	0.56			

Dependent Variable: _19SGS				
Method: Least Squares				
Date: 09/27/18 Time: 09:17				
Sample: 2013M02 2017M12				
Included observations: 59				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.335654	0.175821	1.90907	0.0613
_19_HDDS(-1)	0.002331	0.000322	7.229808	0
R-squared	0.478357	Mean dependent var	1.226188	
Adjusted R-squared	0.469205	S.D. dependent var	1.322744	
S.E. of regression	0.963694	Akaike info criterion	2.797224	
Sum squared resid	52.93622	Schwarz criterion	2.867649	
Log likelihood	-80.51811	Hannan-Quinn criter.	2.824715	
F-statistic	52.27012	Durbin-Watson stat	1.056412	
Prob(F-statistic)	0			

Dependent Variable: _20SGS				
Method: ARMA Conditional Least Squares (BFGS / Marquardt steps)				
Date: 09/28/18 Time: 09:07				
Sample: 2013M02 2017M12				
Included observations: 59				
Convergence achieved after 27 iterations				
Huber-White-Hinkley (HC1) heteroskedasticity consistent standard errors and covariance				
MA Backcast: 2012M02 2013M01				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.311804	0.235673	1.323037	0.1914
_20_HDDS	0.001191	0.000451	2.642189	0.0108
_20_HDDS(-1)	0.001243	0.000372	3.341986	0.0015
AR(1)	0.746702	0.075845	9.845135	0
MA(12)	0.891853	0.035637	25.02583	0
R-squared	0.886254	Mean dependent var	0.889374	
Adjusted R-squared	0.877828	S.D. dependent var	0.837228	
S.E. of regression	0.292637	Akaike info criterion	0.461174	
Sum squared resid	4.624381	Schwarz criterion	0.637236	
Log likelihood	-8.604621	Hannan-Quinn criter.	0.529901	
F-statistic	105.1851	Durbin-Watson stat	1.861861	
Prob(F-statistic)	0			
Inverted AR Roots	0.75			
Inverted MA Roots	.96+-.26i	.70+.70i	.70-.70i	
	.26-.96i	-.26-.96i	-.26+.96i	
	-.70-.70i	-.70+.26i	-.96-.26i	

Dependent Variable: _20KGSSD				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 10/04/18 Time: 19:47				
Sample: 2013M01 2017M12				
Included observations: 60				
Convergence achieved after 5 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-387.0229	1253.978	-0.308636	0.7587
_20_HDDS(-1)	7.628915	1.461222	5.220915	0
AR(11)	0.551344	0.065021	8.479446	0
SIGMASQ	3629241	445368.8	8.148844	0
R-squared	0.718647	Mean dependent var	2395.825	
Adjusted R-squared	0.703574	S.D. dependent var	3621.86	
S.E. of regression	1971.921	Akaike info criterion	18.14218	
Sum squared resid	2.18E+08	Schwarz criterion	18.2818	
Log likelihood	-540.2654	Hannan-Quinn criter.	18.19679	
F-statistic	47.67939	Durbin-Watson stat	1.696574	
Prob(F-statistic)	0			
Inverted AR Roots	0.95	.80+.51i	.80-.51i	.39+.86i
	.39-.86i	-.13+.94i	-.13-.94i	-.62-.72i
	-.62+.72i	-.91+.27i	-.91-.27i	

Exhibit DLP – 1
18-KGSG-560-RTS
Regression Results

Dependent Variable: _19SSR				
Method: Least Squares				
Date: 09/28/18 Time: 08:57				
Sample (adjusted): 2016M07 2017M12				
Included observations: 18 after adjustments				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	7.33264	7.210782	1.016899	0.3253
_19_HDDS	-0.003499	0.022469	-0.155716	0.8783
_19_HDDS(-1)	0.039697	0.024564	1.616039	0.1269
R-squared	0.265012	Mean dependent var	16.99178	
Adjusted R-squared	0.167013	S.D. dependent var	24.73555	
S.E. of regression	22.57566	Akaike info criterion	9.222634	
Sum squared resid	7644.909	Schwarz criterion	9.371029	
Log likelihood	-80.00371	Hannan-Quinn criter.	9.243096	
F-statistic	2.704247	Durbin-Watson stat	3.143092	
Prob(F-statistic)	0.099335			

Dependent Variable: _20SSR				
Method: ARMA Maximum Likelihood (OPG - BHHH)				
Date: 10/05/18 Time: 10:14				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 16 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	-25.96202	190.1934	-0.136503	0.8918
_20_HDDS(-1)	2.039709	0.216909	9.403527	0
_20SSR_DUMB	4660.877	125.6336	37.09896	0
AR(1)	0.235638	0.092434	2.54927	0.0128
SAR(13)	0.408012	0.088088	4.631855	0
SIGMASQ	167280.6	18586.97	8.999885	0
R-squared	0.881161	Mean dependent var	801.6559	
Adjusted R-squared	0.873444	S.D. dependent var	1193.644	
S.E. of regression	424.6356	Akaike info criterion	15.03909	
Sum squared resid	13884288	Schwarz criterion	15.21395	
Log likelihood	-618.1223	Hannan-Quinn criter.	15.10934	
F-statistic	114.1867	Durbin-Watson stat	2.076792	
Prob(F-statistic)	0			
Inverted AR Roots	0.93	.83-.43i	.83+.43i	.53+.77i
	.53-.77i	0.24	.11-.93i	.11+.93i
	-.33-.87i	-.33+.87i	-.70+.62i	-.70-.62i
	-.91-.22i	-.91+.22i		

Dependent Variable: _19WTT				
Method: ARMA Maximum Likelihood (BFGS)				
Date: 10/15/18 Time: 16:17				
Sample: 2011M02 2017M12				
Included observations: 83				
Convergence achieved after 7 iterations				
Coefficient covariance computed using outer product of gradients				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	763.3236	397.108	1.922207	0.0583
_19_HDDS	9.571388	0.285857	33.48318	0
_19_HDDS(-1)	0.905412	0.279845	3.23541	0.0018
AR(1)	0.752195	0.070133	10.7252	0
SAR(12)	0.571371	0.099584	5.737591	0
SIGMASQ	145658.7	23214.3	6.274525	0
R-squared	0.989633	Mean dependent var	4708.079	
Adjusted R-squared	0.98896	S.D. dependent var	3771.2	
S.E. of regression	396.2433	Akaike info criterion	14.93912	
Sum squared resid	1.21E+07	Schwarz criterion	15.11398	
Log likelihood	-613.9736	Hannan-Quinn criter.	15.00937	
F-statistic	1470.122	Durbin-Watson stat	2.080301	
Prob(F-statistic)	0			
Inverted AR Roots	0.95	.83+.48i	.83-.48i	0.75
	.48-.83i	.48+.83i	.00+.95i	-.00-.95i
	-.48+.83i	-.48-.83i	-.83-.48i	-.83+.48i
	-0.95			

Dependent Variable: _20WTT				
Method: ARMA Conditional Least Squares (Gauss-Newton / Marquardt steps)				
Date: 10/06/18 Time: 16:15				
Sample (adjusted): 2011M03 2017M12				
Included observations: 82 after adjustments				
Convergence achieved after 5 iterations				
HAC standard errors & covariance (Bartlett kernel, Newey-West fixed bandwidth = 4.0000)				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	296.4727	24.27566	12.21275	0
_20_HDDS	2.521382	0.062823	40.13471	0
_20_HDDS(-1)	0.173994	0.056184	3.096887	0.0027
_20_CDDS	0.341196	0.056545	6.034084	0
AR(1)	0.462384	0.0881	5.248401	0
R-squared	0.992421	Mean dependent var	1251.435	
Adjusted R-squared	0.992028	S.D. dependent var	894.689	
S.E. of regression	79.88508	Akaike info criterion	11.65809	
Sum squared resid	491385.1	Schwarz criterion	11.80484	
Log likelihood	-472.9818	Hannan-Quinn criter.	11.71701	
F-statistic	2520.775	Durbin-Watson stat	2.040327	
Prob(F-statistic)	0			
Inverted AR Roots	0.46			

EXHIBIT DLP - 2
18-KGSG-560-RTS
STAFF ADJUSTMENT IS-11

<u>Weather Normalization Summary</u>			
	Customer Classification	Staff Volumetric Adjustment	Staff Revenue Adjustment
RS	Residential	4,970,540	\$ 11,092,257
GSS	General Service - Small	563,340	\$ 1,322,271
GSL	General Service - Large	573,667	\$ 1,021,700
GSTE	General Service - TE	111,375	\$ 170,325
SGS	Small Generator Service	1,315	\$ 845
GIS	Irrigation Sales	2,035	\$ 3,423
KGSSD	Kansas Gas Supply	4,059	\$ 3,520
SSR	Sales for Resale	6,393	\$ 7,990
SSR-BH	Sales for Resale - BH	0	\$ -
STk	Small Transport k-System	549,525	\$ 802,196
STt	Small Transport t-System	187,401	\$ 359,248
CNGk	CNG k-System	1,221	\$ 1,001
CNGt	CNG t-System	0	\$ -
GIT	Irrigation Transport	5,503	\$ 9,256
LVTk-T1	Large Transport k - Tier 1	108,720	\$ 94,739
LVTk-T2	Large Transport k - Tier 2	110,155	\$ 95,989
LVTk-T3	Large Transport k - Tier 3	60,789	\$ 52,971
LVTk-T4	Large Transport k - Tier 4	178,127	\$ 155,220
LVTt-T1	Large Transport t - Tier 1	33,755	\$ 44,229
LVTt-T2	Large Transport t - Tier 2	31,748	\$ 41,599
LVTt-T3	Large Transport t - Tier 3	10,072	\$ 13,198
LVTt-T4	Large Transport t - Tier 4	125,952	\$ 165,035
WTt	Wholesale Transport	114,206	\$ 142,723
	Staff Weather Normalization Total	7,749,899	\$ 15,599,737
	KGS Weather Normalization Total	6,323,460	\$ 12,664,050
	Staff Adjustment IS-11 (Difference)	1,426,439	\$ 2,935,687

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712	Customer Count	Usage	Average Usage	Weather Normalization		Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment			
						Basic Service	Commodity Rate	Actual	Normal	Actual	Normal						
KMCI-09	RS	January	192,451	3,451,097	17.93	\$	16.70	\$	2.2316	1014.00	0.009935	1081.50	1008.83	0.44	84,050	\$	187,566
		February	193,085	2,127,146	11.02	\$	16.70	\$	2.2316	598.50	888.65	1014.00	1099.95	3.38	651,869	\$	1,454,712
		March	193,031	1,544,170	8.00	\$	16.70	\$	2.2316	530.50	634.35	598.50	888.65	2.70	520,701	\$	1,161,996
		April	192,415	992,883	5.16	\$	16.70	\$	2.2316	264.50	320.52	530.50	634.35	1.15	221,802	\$	494,973
		May	192,315	561,431	2.92	\$	16.70	\$	2.2316	111.00	106.87	264.50	320.52	0.28	53,950	\$	120,394
		June	191,001	326,625	1.71	\$	16.70	\$	2.2316	2.00	7.12	111.00	106.87	0.03	5,177	\$	11,553
		July	190,406	266,345	1.40	\$	16.70	\$	2.2316	0.00	0.45	2.00	7.12	0.03	6,444	\$	14,381
		August	189,768	244,326	1.29	\$	16.70	\$	2.2316	4.00	1.18	0.00	0.45	(0.03)	(4,820)	\$	(10,757)
		September	189,759	265,325	1.40	\$	16.70	\$	2.2316	17.50	57.57	4.00	1.18	0.38	72,467	\$	161,718
		October	189,718	335,283	1.77	\$	16.70	\$	2.2316	267.00	284.92	17.50	57.57	0.41	77,410	\$	172,747
		November	191,044	1,348,181	7.06	\$	16.70	\$	2.2316	605.50	626.33	267.00	284.92	0.31	59,193	\$	132,095
		December	191,747	2,310,231	12.05	\$	16.70	\$	2.2316	1020.50	1008.83	605.50	626.33	0.00	709	\$	1,581
		Total	191,395	13,773,043											1,748,951	\$	3,902,959
		KTOP-19	RS	January	106,721	1,476,440	13.83	\$	16.70	\$	2.2316	981.00	0.006130	1067.50	993.28	0.12	12,463
February	106,904			994,131	9.30	\$	16.70	\$	2.2316	582.00	859.75	981.00	1071.48	2.24	239,087	\$	533,547
March	106,686			700,444	6.57	\$	16.70	\$	2.2316	506.00	613.52	582.00	859.75	2.30	245,142	\$	547,060
April	105,707			504,467	4.77	\$	16.70	\$	2.2316	251.00	310.18	506.00	613.52	1.00	105,405	\$	235,221
May	106,536			286,150	2.69	\$	16.70	\$	2.2316	87.00	98.82	251.00	310.18	0.42	44,918	\$	100,238
June	104,954			162,337	1.55	\$	16.70	\$	2.2316	0.00	5.50	87.00	98.82	0.10	10,856	\$	24,226
July	105,083			133,305	1.27	\$	16.70	\$	2.2316	0.00	0.18	0.00	5.50	0.03	3,528	\$	7,873
August	103,886			115,973	1.12	\$	16.70	\$	2.2316	0.00	1.12	0.00	0.18	0.01	823	\$	1,838
September	104,220			122,341	1.17	\$	16.70	\$	2.2316	13.50	55.20	0.00	1.12	0.26	27,327	\$	60,984
October	103,737			144,341	1.39	\$	16.70	\$	2.2316	246.50	277.72	13.50	55.20	0.44	45,373	\$	101,255
November	104,595			523,054	5.00	\$	16.70	\$	2.2316	577.00	621.00	246.50	277.72	0.45	47,476	\$	105,946
December	104,556			880,689	8.42	\$	16.70	\$	2.2316	997.00	993.28	577.00	621.00	0.24	24,761	\$	55,256
Total	105,299			6,043,674											807,160	\$	1,801,258
KICT-20	RS			January	288,108	4,092,202	14.20	\$	16.70	\$	2.2316	880.00	0.007206	994.50	936.50	0.36	104,488
		February	288,672	2,728,158	9.45	\$	16.70	\$	2.2316	539.00	780.47	880.00	986.32	2.48	715,776	\$	1,597,325
		March	289,623	1,885,002	6.51	\$	16.70	\$	2.2316	435.50	557.42	539.00	780.47	2.56	740,907	\$	1,653,407
		April	287,507	1,290,633	4.49	\$	16.70	\$	2.2316	241.50	276.18	435.50	557.42	1.10	315,677	\$	704,466
		May	287,296	805,649	2.80	\$	16.70	\$	2.2316	79.00	80.08	241.50	276.18	0.25	71,555	\$	159,682
		June	284,802	438,332	1.54	\$	16.70	\$	2.2316	0.00	3.53	79.00	80.08	0.03	9,398	\$	20,972
		July	283,515	352,861	1.24	\$	16.70	\$	2.2316	0.00	0.10	0.00	3.53	0.03	7,173	\$	16,006
		August	282,056	327,184	1.16	\$	16.70	\$	2.2316	0.00	0.12	0.00	0.10	0.00	433	\$	967
		September	282,754	345,266	1.22	\$	16.70	\$	2.2316	7.00	32.20	0.00	0.12	0.18	51,575	\$	115,095
		October	281,947	411,920	1.46	\$	16.70	\$	2.2316	221.50	224.27	7.00	32.20	0.20	55,044	\$	122,836
		November	284,316	1,461,894	5.14	\$	16.70	\$	2.2316	514.50	567.38	221.50	224.27	0.40	113,818	\$	253,996
		December	286,947	2,436,091	8.49	\$	16.70	\$	2.2316	877.00	936.50	514.50	567.38	0.80	228,586	\$	510,112
		Total	285,629	16,575,193											2,414,429	\$	5,388,040
		Class Total			582,323	36,391,911										4,970,540	\$

Exhibit DLP – 2
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Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Average Usage	Weather Normalization		Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
						Basic Service	Commodity Rate	Actual	Normal	Actual	Normal			
KMCI-09	GSS	January	10,241	267,368	26.11	\$ 28.65	\$ 2.3472	1014.00	0.010770	1081.50	0.010714	0.15	1,507	\$ 3,537
		February	10,288	168,745	16.40	\$ 28.65	\$ 2.3472	598.50	888.65	1014.00	1099.95	4.05	41,624	\$ 97,701
		March	10,265	108,085	10.53	\$ 28.65	\$ 2.3472	530.50	634.35	598.50	888.65	4.23	43,393	\$ 101,851
		April	10,210	64,526	6.32	\$ 28.65	\$ 2.3472	264.50	320.52	530.50	634.35	1.72	17,520	\$ 41,124
		May	10,191	33,915	3.33	\$ 28.65	\$ 2.3472	111.00	106.87	264.50	320.52	0.56	5,663	\$ 13,292
		June	10,104	19,176	1.90	\$ 28.65	\$ 2.3472	2.00	7.12	111.00	106.87	0.01	109	\$ 257
		July	9,963	15,443	1.55	\$ 28.65	\$ 2.3472	0.00	0.45	2.00	7.12	0.06	594	\$ 1,395
		August	10,041	14,436	1.44	\$ 28.65	\$ 2.3472	4.00	1.18	0.00	0.45	(0.03)	(256)	\$ (601)
		September	9,998	15,394	1.54	\$ 28.65	\$ 2.3472	17.50	57.57	4.00	1.18	0.40	4,013	\$ 9,419
		October	9,999	19,497	1.95	\$ 28.65	\$ 2.3472	267.00	284.92	17.50	57.57	0.62	6,222	\$ 14,603
		November	10,048	82,353	8.20	\$ 28.65	\$ 2.3472	605.50	626.33	267.00	284.92	0.42	4,183	\$ 9,819
		December	10,078	159,485	15.82	\$ 28.65	\$ 2.3472	1020.50	1008.83	605.50	626.33	0.10	983	\$ 2,308
		Total	10,119	968,424									125,556	\$ 294,704
KTOP-19	GSS	January	6,602	154,554	23.41	\$ 28.65	\$ 2.3472	981.00	0.008850	1067.50	0.012345	(0.12)	(762)	\$ (1,789)
		February	6,630	114,402	17.26	\$ 28.65	\$ 2.3472	582.00	859.75	981.00	1071.48	3.58	23,703	\$ 55,635
		March	6,564	66,825	10.18	\$ 28.65	\$ 2.3472	506.00	613.52	582.00	859.75	4.38	28,751	\$ 67,484
		April	6,534	34,219	5.24	\$ 28.65	\$ 2.3472	251.00	310.18	506.00	613.52	1.85	12,095	\$ 28,389
		May	6,522	18,446	2.83	\$ 28.65	\$ 2.3472	87.00	98.82	251.00	310.18	0.84	5,447	\$ 12,785
		June	6,524	10,157	1.56	\$ 28.65	\$ 2.3472	0.00	5.50	87.00	98.82	0.19	1,269	\$ 2,979
		July	6,453	8,225	1.27	\$ 28.65	\$ 2.3472	0.00	0.18	0.00	5.50	0.07	449	\$ 1,053
		August	6,482	7,733	1.19	\$ 28.65	\$ 2.3472	0.00	1.12	0.00	0.18	0.01	79	\$ 185
		September	6,450	8,346	1.29	\$ 28.65	\$ 2.3472	13.50	55.20	0.00	1.12	0.38	2,469	\$ 5,796
		October	6,334	9,345	1.48	\$ 28.65	\$ 2.3472	246.50	277.72	13.50	55.20	0.79	5,011	\$ 11,761
		November	6,423	50,035	7.79	\$ 28.65	\$ 2.3472	577.00	621.00	246.50	277.72	0.77	4,977	\$ 11,681
		December	6,456	75,562	11.70	\$ 28.65	\$ 2.3472	997.00	993.28	577.00	621.00	0.51	3,294	\$ 7,732
		Total	6,498	557,849									86,781	\$ 203,692
KICT-20	GSS	January	20,450	504,873	24.69	\$ 28.65	\$ 2.3472	880.00	0.011251	994.50	0.018547	0.12	2,463	\$ 5,781
		February	20,542	317,543	15.46	\$ 28.65	\$ 2.3472	539.00	780.47	880.00	986.32	4.69	96,314	\$ 226,067
		March	20,432	194,071	9.50	\$ 28.65	\$ 2.3472	435.50	557.42	539.00	780.47	5.85	119,529	\$ 280,558
		April	20,573	119,714	5.82	\$ 28.65	\$ 2.3472	241.50	276.18	435.50	557.42	2.65	54,548	\$ 128,036
		May	20,381	60,458	2.97	\$ 28.65	\$ 2.3472	79.00	80.08	241.50	276.18	0.66	13,359	\$ 31,356
		June	20,238	30,311	1.50	\$ 28.65	\$ 2.3472	0.00	3.53	79.00	80.08	0.06	1,211	\$ 2,843
		July	20,062	26,847	1.34	\$ 28.65	\$ 2.3472	0.00	0.10	0.00	3.53	0.07	1,337	\$ 3,139
		August	20,132	23,243	1.15	\$ 28.65	\$ 2.3472	0.00	0.12	0.00	0.10	0.00	64	\$ 150
		September	20,076	23,715	1.18	\$ 28.65	\$ 2.3472	7.00	32.20	0.00	0.12	0.29	5,735	\$ 13,462
		October	20,045	27,076	1.35	\$ 28.65	\$ 2.3472	221.50	224.27	7.00	32.20	0.50	9,993	\$ 23,455
		November	20,030	119,727	5.98	\$ 28.65	\$ 2.3472	514.50	567.38	221.50	224.27	0.65	12,946	\$ 30,386
		December	20,303	243,702	12.00	\$ 28.65	\$ 2.3472	877.00	936.50	514.50	567.38	1.65	33,504	\$ 78,642
		Total	20,272	1,691,282									351,003	\$ 823,875
Class Total			36,889	3,217,555								563,340	\$ 1,322,271	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization														
Weather Station	Customer Classification	TY: 201701 - 201712	Customer Count	Usage	Average Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
		Month						Actual	Normal	Actual	Normal			
KMCI-09	GSL								0.041794		0.046765			
		January	3,512	396,725	112.97	\$ 36.00	\$ 1.7810	1014.00	1099.95	1081.50	1008.83	0.19	681	\$ 1,213
		February	3,565	269,823	75.68	\$ 36.00	\$ 1.7810	598.50	888.65	1014.00	1099.95	16.15	57,566	\$ 102,525
		March	3,536	186,285	52.68	\$ 36.00	\$ 1.7810	530.50	634.35	598.50	888.65	17.91	63,334	\$ 112,798
		April	3,515	123,089	35.01	\$ 36.00	\$ 1.7810	264.50	320.52	530.50	634.35	7.20	25,302	\$ 45,063
		May	3,512	77,705	22.13	\$ 36.00	\$ 1.7810	111.00	106.87	264.50	320.52	2.45	8,593	\$ 15,303
		June	3,507	55,525	15.83	\$ 36.00	\$ 1.7810	2.00	7.12	111.00	106.87	0.02	72	\$ 128
		July	3,502	49,457	14.12	\$ 36.00	\$ 1.7810	0.00	0.45	2.00	7.12	0.26	904	\$ 1,610
		August	3,483	45,727	13.13	\$ 36.00	\$ 1.7810	4.00	1.18	0.00	0.45	(0.10)	(337)	\$ (600)
		September	3,458	50,004	14.46	\$ 36.00	\$ 1.7810	17.50	57.57	4.00	1.18	1.54	5,335	\$ 9,501
		October	3,477	53,277	15.32	\$ 36.00	\$ 1.7810	267.00	284.92	17.50	57.57	2.62	9,118	\$ 16,240
		November	3,488	147,591	42.31	\$ 36.00	\$ 1.7810	605.50	626.33	267.00	284.92	1.71	5,959	\$ 10,614
		December	3,465	249,587	72.02	\$ 36.00	\$ 1.7810	1020.50	1008.83	605.50	626.33	0.49	1,686	\$ 3,004
	Total	3,502	1,704,796									178,214	\$ 317,399	
KTOP-19	GSL								0.041193		0.048321			
		January	2,159	227,783	105.48	\$ 36.00	\$ 1.7810	981.00	1071.48	1067.50	993.28	0.14	305	\$ 543
		February	2,181	157,048	72.01	\$ 36.00	\$ 1.7810	582.00	859.75	981.00	1071.48	15.81	34,487	\$ 61,421
		March	2,160	107,731	49.86	\$ 36.00	\$ 1.7810	506.00	613.52	582.00	859.75	17.85	38,565	\$ 68,684
		April	2,136	68,910	32.26	\$ 36.00	\$ 1.7810	251.00	310.18	506.00	613.52	7.63	16,306	\$ 29,041
		May	2,143	44,652	20.84	\$ 36.00	\$ 1.7810	87.00	98.82	251.00	310.18	3.35	7,170	\$ 12,770
		June	2,139	31,627	14.78	\$ 36.00	\$ 1.7810	0.00	5.50	87.00	98.82	0.80	1,706	\$ 3,039
		July	2,106	24,870	11.81	\$ 36.00	\$ 1.7810	0.00	0.18	0.00	5.50	0.27	576	\$ 1,025
		August	2,130	24,229	11.38	\$ 36.00	\$ 1.7810	0.00	1.12	0.00	0.18	0.05	117	\$ 208
		September	2,120	25,296	11.93	\$ 36.00	\$ 1.7810	13.50	55.20	0.00	1.12	1.77	3,757	\$ 6,691
		October	2,080	26,553	12.76	\$ 36.00	\$ 1.7810	246.50	277.72	13.50	55.20	3.30	6,866	\$ 12,229
		November	2,125	78,719	37.04	\$ 36.00	\$ 1.7810	577.00	621.00	246.50	277.72	3.32	7,058	\$ 12,571
		December	2,077	123,352	59.40	\$ 36.00	\$ 1.7810	997.00	993.28	577.00	621.00	1.97	4,097	\$ 7,297
	Total	2,130	940,769									121,010	\$ 215,519	
KICT-20	GSL								0.025916		0.053120			
		January	6,106	624,741	102.31	\$ 36.00	\$ 1.7810	880.00	986.32	994.50	936.50	(0.33)	(1,989)	\$ (3,542)
		February	6,110	419,467	68.66	\$ 36.00	\$ 1.7810	539.00	780.47	880.00	986.32	11.91	72,739	\$ 129,548
		March	6,074	280,263	46.14	\$ 36.00	\$ 1.7810	435.50	557.42	539.00	780.47	15.99	97,105	\$ 172,945
		April	6,175	199,603	32.33	\$ 36.00	\$ 1.7810	241.50	276.18	435.50	557.42	7.38	45,538	\$ 81,102
		May	6,084	116,398	19.13	\$ 36.00	\$ 1.7810	79.00	80.08	241.50	276.18	1.87	11,380	\$ 20,268
		June	6,053	75,343	12.45	\$ 36.00	\$ 1.7810	0.00	3.53	79.00	80.08	0.15	903	\$ 1,608
		July	5,934	76,754	12.93	\$ 36.00	\$ 1.7810	0.00	0.10	0.00	3.53	0.19	1,129	\$ 2,011
		August	6,010	62,032	10.32	\$ 36.00	\$ 1.7810	0.00	0.12	0.00	0.10	0.01	50	\$ 89
		September	5,980	63,926	10.69	\$ 36.00	\$ 1.7810	7.00	32.20	0.00	0.12	0.66	3,942	\$ 7,021
		October	5,980	70,456	11.78	\$ 36.00	\$ 1.7810	221.50	224.27	7.00	32.20	1.41	8,434	\$ 15,021
		November	5,938	193,182	32.54	\$ 36.00	\$ 1.7810	514.50	567.38	221.50	224.27	1.52	9,010	\$ 16,047
		December	6,022	343,376	57.02	\$ 36.00	\$ 1.7810	877.00	936.50	514.50	567.38	4.35	26,201	\$ 46,663
	Total	6,039	2,525,542									274,443	\$ 488,782	
Class Total			11,670	5,171,108								573,667	\$ 1,021,700	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Average Usage	Weather Normalization		Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
						Basic Service	Commodity Rate	Actual	Normal	Actual	Normal			
KMCI-09	GSTE	January	211	93,551	443.16	\$ 60.00	\$ 1.5293	1014.00	0.1879431099.95	1081.50	0.1789701008.83	3.15	665	\$ 1,016
		February	216	66,423	307.56	\$ 60.00	\$ 1.5293	598.50	888.65	1014.00	1099.95	69.91	15,099	\$ 23,091
		March	215	53,911	251.33	\$ 60.00	\$ 1.5293	530.50	634.35	598.50	888.65	71.45	15,325	\$ 23,437
		April	217	36,705	169.28	\$ 60.00	\$ 1.5293	264.50	320.52	530.50	634.35	29.11	6,313	\$ 9,654
		May	214	21,299	99.76	\$ 60.00	\$ 1.5293	111.00	106.87	264.50	320.52	9.25	1,975	\$ 3,020
		June	215	20,753	96.45	\$ 60.00	\$ 1.5293	2.00	7.12	111.00	106.87	0.22	48	\$ 73
		July	216	13,125	60.81	\$ 60.00	\$ 1.5293	0.00	0.45	2.00	7.12	1.00	216	\$ 330
		August	213	11,844	55.61	\$ 60.00	\$ 1.5293	4.00	1.18	0.00	0.45	(0.45)	(96)	\$ (146)
		September	210	15,471	73.73	\$ 60.00	\$ 1.5293	17.50	57.57	4.00	1.18	7.03	1,474	\$ 2,255
		October	208	18,563	89.22	\$ 60.00	\$ 1.5293	267.00	284.92	17.50	57.57	10.54	2,193	\$ 3,353
		November	210	43,085	204.78	\$ 60.00	\$ 1.5293	605.50	626.33	267.00	284.92	7.12	1,498	\$ 2,292
		December	211	66,198	314.48	\$ 60.00	\$ 1.5293	1020.50	1008.83	605.50	626.33	1.54	323	\$ 494
		Total	213	460,928									45,033	\$ 68,869
KTOP-19	GSTE	January	88	43,140	490.23	\$ 60.00	\$ 1.5293	981.00	0.1818991071.48	1067.50	0.220951993.28	0.06	5	\$ 8
		February	85	39,754	466.81	\$ 60.00	\$ 1.5293	582.00	859.75	981.00	1071.48	70.51	6,005	\$ 9,183
		March	87	26,029	298.79	\$ 60.00	\$ 1.5293	506.00	613.52	582.00	859.75	80.93	7,050	\$ 10,781
		April	86	14,134	163.72	\$ 60.00	\$ 1.5293	251.00	310.18	506.00	613.52	34.52	2,980	\$ 4,558
		May	83	9,260	111.57	\$ 60.00	\$ 1.5293	87.00	98.82	251.00	310.18	15.23	1,264	\$ 1,933
		June	84	5,813	69.20	\$ 60.00	\$ 1.5293	0.00	5.50	87.00	98.82	3.61	303	\$ 464
		July	77	3,986	51.79	\$ 60.00	\$ 1.5293	0.00	0.18	0.00	5.50	1.25	96	\$ 147
		August	79	4,649	59.12	\$ 60.00	\$ 1.5293	0.00	1.12	0.00	0.18	0.24	19	\$ 29
		September	75	4,581	61.08	\$ 60.00	\$ 1.5293	13.50	55.20	0.00	1.12	7.83	587	\$ 898
		October	74	5,708	76.96	\$ 60.00	\$ 1.5293	246.50	277.72	13.50	55.20	14.89	1,104	\$ 1,689
		November	81	15,930	196.35	\$ 60.00	\$ 1.5293	577.00	621.00	246.50	277.72	14.90	1,209	\$ 1,849
		December	75	20,736	275.01	\$ 60.00	\$ 1.5293	997.00	993.28	577.00	621.00	9.05	682	\$ 1,043
		Total	81	193,719									21,306	\$ 32,583
KICT-20	GSTE	January	229	80,500	352.24	\$ 60.00	\$ 1.5293	880.00	0.163117986.32	994.50	0.183174936.50	6.72	1,535	\$ 2,348
		February	226	60,647	268.91	\$ 60.00	\$ 1.5293	539.00	780.47	880.00	986.32	58.86	13,275	\$ 20,302
		March	220	41,715	189.64	\$ 60.00	\$ 1.5293	435.50	557.42	539.00	780.47	64.12	14,104	\$ 21,569
		April	231	35,043	151.57	\$ 60.00	\$ 1.5293	241.50	276.18	435.50	557.42	27.99	6,471	\$ 9,896
		May	233	30,191	129.60	\$ 60.00	\$ 1.5293	79.00	80.08	241.50	276.18	6.53	1,521	\$ 2,326
		June	222	15,127	68.02	\$ 60.00	\$ 1.5293	0.00	3.53	79.00	80.08	0.77	172	\$ 264
		July	218	11,873	54.49	\$ 60.00	\$ 1.5293	0.00	0.10	0.00	3.53	0.66	145	\$ 221
		August	206	10,087	48.96	\$ 60.00	\$ 1.5293	0.00	0.12	0.00	0.10	0.04	8	\$ 12
		September	209	10,857	52.05	\$ 60.00	\$ 1.5293	7.00	32.20	0.00	0.12	4.13	862	\$ 1,318
		October	207	12,118	58.43	\$ 60.00	\$ 1.5293	221.50	224.27	7.00	32.20	5.07	1,051	\$ 1,607
		November	201	27,937	139.02	\$ 60.00	\$ 1.5293	514.50	567.38	221.50	224.27	9.13	1,835	\$ 2,807
		December	209	46,189	220.82	\$ 60.00	\$ 1.5293	877.00	936.50	514.50	567.38	19.39	4,056	\$ 6,203
		Total	218	382,284									45,036	\$ 68,873
Class Total			512	1,036,931									111,375	\$ 170,325

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Weather Normalization		Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
								Actual	Normal	Actual	Normal					
KMCI-09									0.231316		0.000000					
	STk	January	1,458	434,571	298.15	\$ 60.00	\$ 1.4598	1014.00	1099.95	1081.50	1008.83	19.88	28,979	\$	42,304	
		February	1,453	268,943	185.10	\$ 60.00	\$ 1.4598	598.50	888.65	1014.00	1099.95	67.12	97,520	\$	142,360	
		March	1,463	240,338	164.23	\$ 60.00	\$ 1.4598	530.50	634.35	598.50	888.65	24.02	35,155	\$	51,319	
		April	1,486	148,697	100.05	\$ 60.00	\$ 1.4598	264.50	320.52	530.50	634.35	12.96	19,258	\$	28,113	
		May	1,463	108,448	74.15	\$ 60.00	\$ 1.4598	111.00	106.87	264.50	320.52	(0.96)	(1,398)	\$	(2,041)	
		June	1,477	78,788	53.35	\$ 60.00	\$ 1.4598	2.00	7.12	111.00	106.87	1.18	1,748	\$	2,551	
		July	1,487	75,891	51.05	\$ 60.00	\$ 1.4598	0.00	0.45	2.00	7.12	0.10	155	\$	226	
		August	1,499	83,141	55.48	\$ 60.00	\$ 1.4598	4.00	1.18	0.00	0.45	(0.65)	(976)	\$	(1,425)	
		September	1,501	83,026	55.31	\$ 60.00	\$ 1.4598	17.50	57.57	4.00	1.18	9.27	13,911	\$	20,308	
		October	1,503	143,038	95.14	\$ 60.00	\$ 1.4598	267.00	284.92	17.50	57.57	4.14	6,231	\$	9,096	
		November	1,549	246,975	159.44	\$ 60.00	\$ 1.4598	605.50	626.33	267.00	284.92	4.82	7,465	\$	10,897	
		December	1,486	426,449	286.97	\$ 60.00	\$ 1.4598	1020.50	1008.83	605.50	626.33	(2.70)	(4,010)	\$	(5,854)	
		Total	1,485	2,338,305									204,036	\$	297,852	
KTOP-19									0.237234		0.042101					
	STk	January	613	178,815	291.55	\$ 60.00	\$ 1.4598	981.00	1071.48	1067.50	993.28	18.34	11,249	\$	16,421	
		February	612	112,575	183.88	\$ 60.00	\$ 1.4598	582.00	859.75	981.00	1071.48	69.70	42,673	\$	62,293	
		March	620	97,056	156.52	\$ 60.00	\$ 1.4598	506.00	613.52	582.00	859.75	37.20	23,068	\$	33,674	
		April	625	62,136	99.42	\$ 60.00	\$ 1.4598	251.00	310.18	506.00	613.52	18.57	11,604	\$	16,940	
		May	626	41,667	66.56	\$ 60.00	\$ 1.4598	87.00	98.82	251.00	310.18	5.29	3,315	\$	4,839	
		June	630	30,229	47.95	\$ 60.00	\$ 1.4598	0.00	5.50	87.00	98.82	1.80	1,136	\$	1,659	
		July	631	27,692	43.92	\$ 60.00	\$ 1.4598	0.00	0.18	0.00	5.50	0.28	173	\$	253	
		August	640	31,717	49.56	\$ 60.00	\$ 1.4598	0.00	1.12	0.00	0.18	0.27	174	\$	255	
		September	639	32,386	50.68	\$ 60.00	\$ 1.4598	13.50	55.20	0.00	1.12	9.94	6,351	\$	9,272	
		October	644	55,814	86.67	\$ 60.00	\$ 1.4598	246.50	277.72	13.50	55.20	9.16	5,900	\$	8,613	
		November	646	99,650	154.26	\$ 60.00	\$ 1.4598	577.00	621.00	246.50	277.72	11.75	7,592	\$	11,083	
		December	645	166,889	258.56	\$ 60.00	\$ 1.4598	997.00	993.28	577.00	621.00	0.97	627	\$	915	
		Total	631	936,626									113,863	\$	166,216	
KICT-20									0.242891		0.032989					
	STk	January	1,291	426,556	330.51	\$ 60.00	\$ 1.4598	880.00	986.32	994.50	936.50	23.91	30,858	\$	45,046	
		February	1,295	269,942	208.49	\$ 60.00	\$ 1.4598	539.00	780.47	880.00	986.32	62.16	80,479	\$	117,484	
		March	1,305	270,079	206.91	\$ 60.00	\$ 1.4598	435.50	557.42	539.00	780.47	37.58	49,050	\$	71,603	
		April	1,321	154,883	117.28	\$ 60.00	\$ 1.4598	241.50	276.18	435.50	557.42	12.45	16,437	\$	23,994	
		May	1,340	109,755	81.93	\$ 60.00	\$ 1.4598	79.00	80.08	241.50	276.18	1.41	1,885	\$	2,752	
		June	1,361	81,157	59.65	\$ 60.00	\$ 1.4598	0.00	3.53	79.00	80.08	0.89	1,216	\$	1,776	
		July	1,373	69,465	50.59	\$ 60.00	\$ 1.4598	0.00	0.10	0.00	3.53	0.14	193	\$	282	
		August	1,381	74,342	53.84	\$ 60.00	\$ 1.4598	0.00	0.12	0.00	0.10	0.03	44	\$	64	
		September	1,389	75,205	54.16	\$ 60.00	\$ 1.4598	7.00	32.20	0.00	0.12	6.12	8,504	\$	12,415	
		October	1,365	126,300	92.51	\$ 60.00	\$ 1.4598	221.50	224.27	7.00	32.20	1.50	2,052	\$	2,996	
		November	1,399	229,431	164.00	\$ 60.00	\$ 1.4598	514.50	567.38	221.50	224.27	12.94	18,098	\$	26,419	
		December	1,408	381,660	271.01	\$ 60.00	\$ 1.4598	877.00	936.50	514.50	567.38	16.20	22,810	\$	33,297	
		Total	1,352	2,268,775									231,626	\$	338,128	
Class Total			3,469	5,543,706									549,525	\$	802,196	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization														
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
								Actual	Normal	Actual	Normal			
KMCI-09	STt	January	2	595	297.50	\$ 60.00	\$ 1.9170	1014.00	0.257425	1081.50	0.000000	22.13	44	\$ 85
		February	2	315	157.50	\$ 60.00	\$ 1.9170	598.50	888.65	1014.00	1099.95	74.69	149	\$ 286
		March	2	278	139.00	\$ 60.00	\$ 1.9170	530.50	634.35	598.50	888.65	26.73	53	\$ 102
		April	2	136	68.00	\$ 60.00	\$ 1.9170	264.50	320.52	530.50	634.35	14.42	29	\$ 55
		May	2	33	16.50	\$ 60.00	\$ 1.9170	111.00	106.87	264.50	320.52	(1.06)	(2)	\$ (4)
		June	2	11	5.50	\$ 60.00	\$ 1.9170	2.00	7.12	111.00	106.87	1.32	3	\$ 5
		July	2	12	6.00	\$ 60.00	\$ 1.9170	0.00	0.45	2.00	7.12	0.12	0	\$ 0
		August	2	21	10.50	\$ 60.00	\$ 1.9170	4.00	1.18	0.00	0.45	(0.73)	(1)	\$ (3)
		September	2	21	10.50	\$ 60.00	\$ 1.9170	17.50	57.57	4.00	1.18	10.31	21	\$ 40
		October	2	73	36.50	\$ 60.00	\$ 1.9170	267.00	284.92	17.50	57.57	4.61	9	\$ 18
		November	2	271	135.50	\$ 60.00	\$ 1.9170	605.50	626.33	267.00	284.92	5.36	11	\$ 21
		December	2	553	276.50	\$ 60.00	\$ 1.9170	1020.50	1008.83	605.50	626.33	(3.00)	(6)	\$ (12)
		Total	2	2,319									310	\$ 594
KTOP-19	STt	January	262	75,277	287.32	\$ 60.00	\$ 1.9170	981.00	0.215357	1067.50	0.039659	16.54	4,334	\$ 8,309
		February	263	49,182	187.00	\$ 60.00	\$ 1.9170	582.00	859.75	981.00	1071.48	63.40	16,675	\$ 31,966
		March	264	41,700	157.95	\$ 60.00	\$ 1.9170	506.00	613.52	582.00	859.75	34.17	9,021	\$ 17,293
		April	271	28,957	106.77	\$ 60.00	\$ 1.9170	251.00	310.18	506.00	613.52	17.01	4,613	\$ 8,844
		May	273	19,823	72.59	\$ 60.00	\$ 1.9170	87.00	98.82	251.00	310.18	4.89	1,336	\$ 2,561
		June	274	14,657	53.49	\$ 60.00	\$ 1.9170	0.00	5.50	87.00	98.82	1.65	453	\$ 868
		July	281	14,518	51.67	\$ 60.00	\$ 1.9170	0.00	0.18	0.00	5.50	0.26	72	\$ 139
		August	282	14,772	52.38	\$ 60.00	\$ 1.9170	0.00	1.12	0.00	0.18	0.25	70	\$ 134
		September	283	15,142	53.51	\$ 60.00	\$ 1.9170	13.50	55.20	0.00	1.12	9.02	2,554	\$ 4,896
		October	283	24,537	86.70	\$ 60.00	\$ 1.9170	246.50	277.72	13.50	55.20	8.38	2,371	\$ 4,544
		November	287	42,570	148.31	\$ 60.00	\$ 1.9170	577.00	621.00	246.50	277.72	10.71	3,075	\$ 5,895
		December	285	71,999	252.63	\$ 60.00	\$ 1.9170	997.00	993.28	577.00	621.00	0.94	269	\$ 516
		Total	276	413,134									44,844	\$ 85,965
KICT-20	STt	January	886	237,210	267.80	\$ 60.00	\$ 1.9170	880.00	0.218587	994.50	0.030141	21.49	19,037	\$ 36,493
		February	885	149,178	168.56	\$ 60.00	\$ 1.9170	539.00	780.47	880.00	986.32	55.99	49,549	\$ 94,985
		March	890	123,923	139.24	\$ 60.00	\$ 1.9170	435.50	557.42	539.00	780.47	33.93	30,195	\$ 57,885
		April	893	82,345	92.20	\$ 60.00	\$ 1.9170	241.50	276.18	435.50	557.42	11.26	10,053	\$ 19,272
		May	900	53,656	59.61	\$ 60.00	\$ 1.9170	79.00	80.08	241.50	276.18	1.28	1,154	\$ 2,213
		June	909	36,302	39.94	\$ 60.00	\$ 1.9170	0.00	3.53	79.00	80.08	0.80	732	\$ 1,403
		July	922	35,364	38.36	\$ 60.00	\$ 1.9170	0.00	0.10	0.00	3.53	0.13	118	\$ 227
		August	930	39,762	42.77	\$ 60.00	\$ 1.9170	0.00	0.12	0.00	0.10	0.03	27	\$ 51
		September	933	40,043	42.93	\$ 60.00	\$ 1.9170	7.00	32.20	0.00	0.12	5.51	5,141	\$ 9,856
		October	935	68,561	73.33	\$ 60.00	\$ 1.9170	221.50	224.27	7.00	32.20	1.36	1,276	\$ 2,445
		November	947	142,010	149.96	\$ 60.00	\$ 1.9170	514.50	567.38	221.50	224.27	11.64	11,026	\$ 21,137
		December	955	218,737	229.09	\$ 60.00	\$ 1.9170	877.00	936.50	514.50	567.38	14.60	13,940	\$ 26,723
		Total	915	1,227,091									142,248	\$ 272,689
Class Total			1,193	1,642,544								187,401	\$ 359,248	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization														
Weather Station	Customer Classification	TY: 201701 - 201712	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric	Volumetric	Revenue
		Month						Actual	Normal	Actual	Normal	Adj. per capita	Adjustment	Adjustment
KMCI-09									0.934112		0.000000			
	LVTk-T1	January	84	99,967	1,193.55	\$ 208.00	\$ 0.8714	1014.00	1099.95	1081.50	1008.83	80.29	6,725	\$ 5,860
		February	81	54,786	675.00	\$ 208.00	\$ 0.8714	598.50	888.65	1014.00	1099.95	271.03	21,998	\$ 19,169
		March	82	48,668	593.51	\$ 208.00	\$ 0.8714	530.50	634.35	598.50	888.65	97.01	7,955	\$ 6,932
		April	82	24,044	293.22	\$ 208.00	\$ 0.8714	264.50	320.52	530.50	634.35	52.33	4,291	\$ 3,739
		May	84	13,105	156.01	\$ 208.00	\$ 0.8714	111.00	106.87	264.50	320.52	(3.86)	(324)	\$ (283)
		June	84	8,304	98.86	\$ 208.00	\$ 0.8714	2.00	7.12	111.00	106.87	4.78	401	\$ 350
		July	84	7,823	93.13	\$ 208.00	\$ 0.8714	0.00	0.45	2.00	7.12	0.42	35	\$ 31
		August	84	9,665	115.06	\$ 208.00	\$ 0.8714	4.00	1.18	0.00	0.45	(2.63)	(221)	\$ (193)
		September	85	10,198	119.98	\$ 208.00	\$ 0.8714	17.50	57.57	4.00	1.18	37.43	3,181	\$ 2,772
		October	86	22,194	259.20	\$ 208.00	\$ 0.8714	267.00	284.92	17.50	57.57	16.74	1,433	\$ 1,249
		November	81	45,539	559.71	\$ 208.00	\$ 0.8714	605.50	626.33	267.00	284.92	19.46	1,583	\$ 1,380
		December	82	90,969	1,109.38	\$ 208.00	\$ 0.8714	1020.50	1008.83	605.50	626.33	(10.90)	(894)	\$ (779)
	Total		83	435,262									46,164	\$ 40,227
KTOP-19									0.731821		0.000000			
	LVTk-T1	January	46	41,005	891.41	\$ 208.00	\$ 0.8714	981.00	1071.48	1067.50	993.28	66.22	3,046	\$ 2,654
		February	46	25,137	546.46	\$ 208.00	\$ 0.8714	582.00	859.75	981.00	1071.48	203.26	9,350	\$ 8,148
		March	46	21,384	464.87	\$ 208.00	\$ 0.8714	506.00	613.52	582.00	859.75	78.68	3,619	\$ 3,154
		April	45	12,410	275.78	\$ 208.00	\$ 0.8714	251.00	310.18	506.00	613.52	43.31	1,949	\$ 1,698
		May	45	7,486	166.36	\$ 208.00	\$ 0.8714	87.00	98.82	251.00	310.18	8.65	389	\$ 339
		June	45	4,805	106.78	\$ 208.00	\$ 0.8714	0.00	5.50	87.00	98.82	4.03	181	\$ 158
		July	45	4,026	89.47	\$ 208.00	\$ 0.8714	0.00	0.18	0.00	5.50	0.13	6	\$ 5
		August	45	5,627	125.04	\$ 208.00	\$ 0.8714	0.00	1.12	0.00	0.18	0.82	37	\$ 32
		September	45	6,045	134.33	\$ 208.00	\$ 0.8714	13.50	55.20	0.00	1.12	30.52	1,373	\$ 1,197
		October	46	12,350	268.48	\$ 208.00	\$ 0.8714	246.50	277.72	13.50	55.20	22.85	1,051	\$ 916
		November	45	22,121	491.58	\$ 208.00	\$ 0.8714	577.00	621.00	246.50	277.72	32.20	1,449	\$ 1,263
		December	45	38,475	855.00	\$ 208.00	\$ 0.8714	997.00	993.28	577.00	621.00	(2.72)	(122)	\$ (107)
	Total		45	200,871									22,328	\$ 19,457
KICT-20									0.759950		0.000000			
	LVTk-T1	January	82	76,352	931.12	\$ 208.00	\$ 0.8714	880.00	986.32	994.50	936.50	80.80	6,625	\$ 5,773
		February	82	48,491	591.35	\$ 208.00	\$ 0.8714	539.00	780.47	880.00	986.32	183.50	15,047	\$ 13,112
		March	80	39,156	489.45	\$ 208.00	\$ 0.8714	435.50	557.42	539.00	780.47	92.65	7,412	\$ 6,459
		April	80	24,510	306.38	\$ 208.00	\$ 0.8714	241.50	276.18	435.50	557.42	26.36	2,109	\$ 1,837
		May	85	17,147	201.73	\$ 208.00	\$ 0.8714	79.00	80.08	241.50	276.18	0.82	70	\$ 61
		June	85	14,282	168.02	\$ 208.00	\$ 0.8714	0.00	3.53	79.00	80.08	2.69	228	\$ 199
		July	85	12,553	147.68	\$ 208.00	\$ 0.8714	0.00	0.10	0.00	3.53	0.08	6	\$ 6
		August	85	16,041	188.72	\$ 208.00	\$ 0.8714	0.00	0.12	0.00	0.10	0.09	8	\$ 7
		September	85	15,220	179.06	\$ 208.00	\$ 0.8714	7.00	32.20	0.00	0.12	19.15	1,628	\$ 1,418
		October	84	21,973	260.14	\$ 208.00	\$ 0.8714	221.50	224.27	7.00	32.20	2.10	178	\$ 155
		November	81	39,878	492.32	\$ 208.00	\$ 0.8714	514.50	567.38	221.50	224.27	40.19	3,255	\$ 2,837
		December	81	67,520	833.58	\$ 208.00	\$ 0.8714	877.00	936.50	514.50	567.38	45.22	3,663	\$ 3,192
	Total		83	393,123									40,229	\$ 35,055
Class Total			212	1,029,256									108,720	\$ 94,739

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Weather Normalization								Volumetric		Volumetric		Revenue	
			Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Adj. per capita	Adjustment			Adjustment
								Actual	Normal	Actual	Normal					
KMCI-09	LVTk-T2	January	37	90,888	2,461.49	\$ 252.00	\$ 0.8714	1014.00	1.785839	1081.50	1008.83	153.49	5,668	\$		4,939
		February	37	56,509	1,541.97	\$ 252.00	\$ 0.8714	598.50	888.65	1014.00	1099.95	518.16	18,989	\$		16,547
		March	37	53,977	1,465.75	\$ 252.00	\$ 0.8714	530.50	634.35	598.50	888.65	185.46	6,830	\$		5,951
		April	37	37,126	1,008.16	\$ 252.00	\$ 0.8714	264.50	320.52	530.50	634.35	100.04	3,684	\$		3,210
		May	34	27,505	808.97	\$ 252.00	\$ 0.8714	111.00	106.87	264.50	320.52	(7.38)	(251)	\$		(219)
		June	34	22,539	662.91	\$ 252.00	\$ 0.8714	2.00	7.12	111.00	106.87	9.14	311	\$		271
		July	34	19,616	576.94	\$ 252.00	\$ 0.8714	0.00	0.45	2.00	7.12	0.80	27	\$		24
		August	34	20,978	617.00	\$ 252.00	\$ 0.8714	4.00	1.18	0.00	0.45	(5.03)	(171)	\$		(149)
		September	34	23,019	677.03	\$ 252.00	\$ 0.8714	17.50	57.57	4.00	1.18	71.55	2,433	\$		2,120
		October	34	33,418	982.88	\$ 252.00	\$ 0.8714	267.00	284.92	17.50	57.57	32.00	1,088	\$		948
		November	34	52,730	1,550.88	\$ 252.00	\$ 0.8714	605.50	626.33	267.00	284.92	37.20	1,265	\$		1,102
		December	34	80,022	2,353.59	\$ 252.00	\$ 0.8714	1020.50	1008.83	605.50	626.33	(20.83)	(708)	\$		(617)
		Total	35	518,327									39,164	\$		34,127
KTOP-19	LVTk-T2	January	17	42,302	2,488.35	\$ 252.00	\$ 0.8714	981.00	1.817163	1067.50	993.28	164.42	2,795	\$		2,436
		February	17	27,286	1,605.06	\$ 252.00	\$ 0.8714	582.00	859.75	981.00	1071.48	504.72	8,580	\$		7,477
		March	17	23,935	1,407.94	\$ 252.00	\$ 0.8714	506.00	613.52	582.00	859.75	195.38	3,321	\$		2,894
		April	17	14,591	858.29	\$ 252.00	\$ 0.8714	251.00	310.18	506.00	613.52	107.55	1,828	\$		1,593
		May	17	10,220	601.18	\$ 252.00	\$ 0.8714	87.00	98.82	251.00	310.18	21.47	365	\$		318
		June	17	7,687	452.18	\$ 252.00	\$ 0.8714	0.00	5.50	87.00	98.82	9.99	170	\$		148
		July	17	7,150	420.59	\$ 252.00	\$ 0.8714	0.00	0.18	0.00	5.50	0.33	6	\$		5
		August	17	8,524	501.41	\$ 252.00	\$ 0.8714	0.00	1.12	0.00	0.18	2.03	34	\$		30
		September	17	8,502	500.12	\$ 252.00	\$ 0.8714	13.50	55.20	0.00	1.12	75.78	1,288	\$		1,123
		October	17	14,423	848.41	\$ 252.00	\$ 0.8714	246.50	277.72	13.50	55.20	56.73	964	\$		840
		November	17	24,823	1,460.18	\$ 252.00	\$ 0.8714	577.00	621.00	246.50	277.72	79.96	1,359	\$		1,184
		December	17	43,582	2,563.65	\$ 252.00	\$ 0.8714	997.00	993.28	577.00	621.00	(6.75)	(115)	\$		(100)
		Total	17	233,025									20,597	\$		17,948
KICT-20	LVTk-T2	January	45	101,284	2,259.52	\$ 252.00	\$ 0.8714	880.00	1.726986	994.50	936.50	183.61	8,230	\$		7,172
		February	46	74,453	1,630.92	\$ 252.00	\$ 0.8714	539.00	780.47	880.00	986.32	417.01	19,037	\$		16,589
		March	46	68,164	1,493.16	\$ 252.00	\$ 0.8714	435.50	557.42	539.00	780.47	210.55	9,612	\$		8,376
		April	46	52,108	1,141.45	\$ 252.00	\$ 0.8714	241.50	276.18	435.50	557.42	59.90	2,734	\$		2,383
		May	43	40,907	951.33	\$ 252.00	\$ 0.8714	79.00	80.08	241.50	276.18	1.87	80	\$		70
		June	43	29,244	680.09	\$ 252.00	\$ 0.8714	0.00	3.53	79.00	80.08	6.10	262	\$		229
		July	43	25,919	602.77	\$ 252.00	\$ 0.8714	0.00	0.10	0.00	3.53	0.17	7	\$		6
		August	43	29,690	690.47	\$ 252.00	\$ 0.8714	0.00	0.12	0.00	0.10	0.20	9	\$		8
		September	43	29,133	677.51	\$ 252.00	\$ 0.8714	7.00	32.20	0.00	0.12	43.52	1,871	\$		1,631
		October	43	52,150	1,212.79	\$ 252.00	\$ 0.8714	221.50	224.27	7.00	32.20	4.78	205	\$		179
		November	43	68,479	1,592.53	\$ 252.00	\$ 0.8714	514.50	567.38	221.50	224.27	91.33	3,927	\$		3,422
		December	43	95,742	2,226.56	\$ 252.00	\$ 0.8714	877.00	936.50	514.50	567.38	102.76	4,418	\$		3,850
		Total	44	667,273									50,395	\$		43,914
Class Total			96	1,418,625									110,155	\$		95,989

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization															
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment	
KMCI-09	LVTk-T3	January	20	69,786	3,489.30	\$ 323.00	\$ 0.8714	1014.00	1.990294	1081.50	1008.83	171.07	3,421	\$ 2,981	
		February	20	52,028	2,601.40	\$ 323.00	\$ 0.8714	598.50	888.65	1014.00	1099.95	577.48	11,550	\$ 10,064	
		March	20	59,129	2,956.45	\$ 323.00	\$ 0.8714	530.50	634.35	598.50	888.65	206.69	4,134	\$ 3,602	
		April	20	44,802	2,240.10	\$ 323.00	\$ 0.8714	264.50	320.52	530.50	634.35	111.49	2,230	\$ 1,943	
		May	21	37,785	1,799.29	\$ 323.00	\$ 0.8714	111.00	106.87	264.50	320.52	(8.23)	(173)	\$ (151)	
		June	20	39,595	1,979.75	\$ 323.00	\$ 0.8714	2.00	7.12	111.00	106.87	10.18	204	\$ 177	
		July	20	38,985	1,949.25	\$ 323.00	\$ 0.8714	0.00	0.45	2.00	7.12	0.90	18	\$ 16	
		August	20	33,417	1,670.85	\$ 323.00	\$ 0.8714	4.00	1.18	0.00	0.45	(5.61)	(112)	\$ (98)	
		September	20	29,558	1,477.90	\$ 323.00	\$ 0.8714	17.50	57.57	4.00	1.18	79.74	1,595	\$ 1,390	
		October	21	45,786	2,180.29	\$ 323.00	\$ 0.8714	267.00	284.92	17.50	57.57	35.66	749	\$ 653	
		November	22	61,548	2,797.64	\$ 323.00	\$ 0.8714	605.50	626.33	267.00	284.92	41.46	912	\$ 795	
		December	22	72,522	3,296.45	\$ 323.00	\$ 0.8714	1020.50	1008.83	605.50	626.33	(23.22)	(511)	\$ (445)	
		Total	21	584,941									24,016	\$ 20,928	
		KTOP-19	LVTk-T3	January	6	16,112	2,685.33	\$ 323.00	\$ 0.8714	981.00	1.831345	1067.50	993.28	165.71	994
February	6			12,442	2,073.67	\$ 323.00	\$ 0.8714	582.00	859.75	981.00	1071.48	508.66	3,052	\$ 2,659	
March	6			14,146	2,357.67	\$ 323.00	\$ 0.8714	506.00	613.52	582.00	859.75	196.90	1,181	\$ 1,029	
April	6			12,599	2,099.83	\$ 323.00	\$ 0.8714	251.00	310.18	506.00	613.52	108.39	650	\$ 567	
May	6			13,193	2,198.83	\$ 323.00	\$ 0.8714	87.00	98.82	251.00	310.18	21.64	130	\$ 113	
June	6			10,124	1,687.33	\$ 323.00	\$ 0.8714	0.00	5.50	87.00	98.82	10.07	60	\$ 53	
July	6			9,387	1,564.50	\$ 323.00	\$ 0.8714	0.00	0.18	0.00	5.50	0.34	2	\$ 2	
August	6			11,016	1,836.00	\$ 323.00	\$ 0.8714	0.00	1.12	0.00	0.18	2.05	12	\$ 11	
September	6			10,790	1,798.33	\$ 323.00	\$ 0.8714	13.50	55.20	0.00	1.12	76.37	458	\$ 399	
October	6			13,808	2,301.33	\$ 323.00	\$ 0.8714	246.50	277.72	13.50	55.20	57.17	343	\$ 299	
November	6			14,355	2,392.50	\$ 323.00	\$ 0.8714	577.00	621.00	246.50	277.72	80.58	483	\$ 421	
December	6			16,898	2,816.33	\$ 323.00	\$ 0.8714	997.00	993.28	577.00	621.00	(6.81)	(41)	\$ (36)	
Total	6			154,870									7,326	\$ 6,384	
KICT-20	LVTk-T3			January	22	81,695	3,774.49	\$ 323.00	\$ 0.8714	880.00	2.108448	994.50	936.50	224.16	4,852
		February	22	63,142	2,917.30	\$ 323.00	\$ 0.8714	539.00	780.47	880.00	986.32	509.12	11,019	\$ 9,602	
		March	22	61,095	2,822.73	\$ 323.00	\$ 0.8714	435.50	557.42	539.00	780.47	257.05	5,564	\$ 4,848	
		April	22	52,847	2,441.65	\$ 323.00	\$ 0.8714	241.50	276.18	435.50	557.42	73.13	1,583	\$ 1,379	
		May	21	44,025	2,096.43	\$ 323.00	\$ 0.8714	79.00	80.08	241.50	276.18	2.28	48	\$ 42	
		June	21	37,210	1,771.90	\$ 323.00	\$ 0.8714	0.00	3.53	79.00	80.08	7.45	156	\$ 136	
		July	21	36,201	1,723.86	\$ 323.00	\$ 0.8714	0.00	0.10	0.00	3.53	0.21	4	\$ 4	
		August	21	39,546	1,883.14	\$ 323.00	\$ 0.8714	0.00	0.12	0.00	0.10	0.25	5	\$ 5	
		September	21	37,226	1,772.67	\$ 323.00	\$ 0.8714	7.00	32.20	0.00	0.12	53.13	1,116	\$ 972	
		October	21	55,481	2,641.95	\$ 323.00	\$ 0.8714	221.50	224.27	7.00	32.20	5.83	123	\$ 107	
		November	21	67,867	3,231.76	\$ 323.00	\$ 0.8714	514.50	567.38	221.50	224.27	111.50	2,342	\$ 2,040	
		December	21	81,192	3,866.29	\$ 323.00	\$ 0.8714	877.00	936.50	514.50	567.38	125.45	2,635	\$ 2,296	
		Total	21	657,527									29,446	\$ 25,659	
		Class Total			48	1,397,338								60,789	\$ 52,971

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization															
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment	
KMCI-09								Actual	Normal	Actual	Normal				
	LVTk-T4	January	21	219,517	10,453.19	\$ 392.00	\$ 0.8714	1014.00	3.9005491099.95	1081.50	0.4648421008.83	301.47	6,331	\$ 5,517	
		February	21	174,952	8,331.05	\$ 392.00	\$ 0.8714	598.50	888.65	1014.00	1099.95	1,171.70	24,606	\$ 21,441	
		March	21	186,026	8,858.38	\$ 392.00	\$ 0.8714	530.50	634.35	598.50	888.65	539.95	11,339	\$ 9,881	
		April	21	153,645	7,316.43	\$ 392.00	\$ 0.8714	264.50	320.52	530.50	634.35	266.77	5,602	\$ 4,882	
		May	21	155,447	7,402.24	\$ 392.00	\$ 0.8714	111.00	106.87	264.50	320.52	9.92	208	\$ 181	
		June	21	141,305	6,728.81	\$ 392.00	\$ 0.8714	2.00	7.12	111.00	106.87	18.04	379	\$ 330	
		July	21	135,708	6,462.29	\$ 392.00	\$ 0.8714	0.00	0.45	2.00	7.12	4.13	87	\$ 76	
		August	21	144,805	6,895.48	\$ 392.00	\$ 0.8714	4.00	1.18	0.00	0.45	(10.78)	(226)	\$ (197)	
		September	21	134,345	6,397.38	\$ 392.00	\$ 0.8714	17.50	57.57	4.00	1.18	154.97	3,254	\$ 2,836	
		October	21	162,947	7,759.38	\$ 392.00	\$ 0.8714	267.00	284.92	17.50	57.57	88.51	1,859	\$ 1,620	
		November	21	183,739	8,749.48	\$ 392.00	\$ 0.8714	605.50	626.33	267.00	284.92	89.59	1,881	\$ 1,639	
		December	21	226,013	10,762.52	\$ 392.00	\$ 0.8714	1020.50	1008.83	605.50	626.33	(35.82)	(752)	\$ (656)	
		Total	21	2,018,449									54,567	\$ 47,550	
KTOP-19									5.000711		0.000000				
	LVTk-T4	January	22	287,297	13,058.95	\$ 392.00	\$ 0.8714	981.00	1071.48	1067.50	993.28	452.48	9,955	\$ 8,674	
		February	23	232,325	10,101.09	\$ 392.00	\$ 0.8714	582.00	859.75	981.00	1071.48	1,388.95	31,946	\$ 27,838	
		March	23	239,399	10,408.65	\$ 392.00	\$ 0.8714	506.00	613.52	582.00	859.75	537.66	12,366	\$ 10,776	
		April	22	188,514	8,568.82	\$ 392.00	\$ 0.8714	251.00	310.18	506.00	613.52	295.96	6,511	\$ 5,674	
		May	22	180,155	8,188.86	\$ 392.00	\$ 0.8714	87.00	98.82	251.00	310.18	59.09	1,300	\$ 1,133	
		June	22	172,251	7,829.59	\$ 392.00	\$ 0.8714	0.00	5.50	87.00	98.82	27.50	605	\$ 527	
		July	22	161,006	7,318.45	\$ 392.00	\$ 0.8714	0.00	0.18	0.00	5.50	0.92	20	\$ 18	
		August	22	176,221	8,010.05	\$ 392.00	\$ 0.8714	0.00	1.12	0.00	0.18	5.58	123	\$ 107	
		September	22	167,638	7,619.91	\$ 392.00	\$ 0.8714	13.50	55.20	0.00	1.12	208.53	4,588	\$ 3,998	
		October	22	199,820	9,082.73	\$ 392.00	\$ 0.8714	246.50	277.72	13.50	55.20	156.11	3,434	\$ 2,993	
		November	22	239,268	10,875.82	\$ 392.00	\$ 0.8714	577.00	621.00	246.50	277.72	220.03	4,841	\$ 4,218	
		December	23	293,193	13,013.10	\$ 392.00	\$ 0.8714	997.00	993.28	577.00	621.00	(18.59)	(419)	\$ (365)	
		Total	22	2,537,087									75,270	\$ 65,590	
KICT-20									4.182075		0.000000				
	LVTk-T4	January	18	233,595	12,977.50	\$ 392.00	\$ 0.8714	880.00	986.32	994.50	936.50	444.62	8,003	\$ 6,974	
		February	18	199,276	11,070.89	\$ 392.00	\$ 0.8714	539.00	780.47	880.00	986.32	1,009.83	18,177	\$ 15,839	
		March	18	205,329	11,407.17	\$ 392.00	\$ 0.8714	435.50	557.42	539.00	780.47	509.86	9,178	\$ 7,997	
		April	18	183,869	10,214.94	\$ 392.00	\$ 0.8714	241.50	276.18	435.50	557.42	145.05	2,611	\$ 2,275	
		May	17	175,412	10,318.35	\$ 392.00	\$ 0.8714	79.00	80.08	241.50	276.18	4.53	77	\$ 67	
		June	17	150,802	8,877.86	\$ 392.00	\$ 0.8714	0.00	3.53	79.00	80.08	14.78	251	\$ 219	
		July	17	141,116	8,300.94	\$ 392.00	\$ 0.8714	0.00	0.10	0.00	3.53	0.42	7	\$ 6	
		August	17	120,228	7,072.24	\$ 392.00	\$ 0.8714	0.00	0.12	0.00	0.10	0.49	8	\$ 7	
		September	17	153,181	9,010.65	\$ 392.00	\$ 0.8714	7.00	32.20	0.00	0.12	105.39	1,792	\$ 1,561	
		October	17	181,455	10,673.82	\$ 392.00	\$ 0.8714	221.50	224.27	7.00	32.20	11.57	197	\$ 171	
		November	17	195,920	11,524.71	\$ 392.00	\$ 0.8714	514.50	567.38	221.50	224.27	221.16	3,760	\$ 3,276	
		December	17	224,751	13,220.65	\$ 392.00	\$ 0.8714	877.00	936.50	514.50	567.38	248.83	4,230	\$ 3,686	
		Total	17	2,164,934									48,290	\$ 42,080	
Class Total			61	6,720,470									178,127	\$ 155,220	

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Staff Adjustment IS-11

Weather Normalization														
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
								Actual	Normal	Actual	Normal			
KMCI-09	LVTt-T1	January	0	0	0.00	\$ 288.00	\$ 1.3103	1014.00	0.000000	1081.50	1008.83	0.00	0	\$ -
		February	0	0	0.00	\$ 288.00	\$ 1.3103	598.50	888.65	1014.00	1099.95	0.00	0	\$ -
		March	0	0	0.00	\$ 288.00	\$ 1.3103	530.50	634.35	598.50	888.65	0.00	0	\$ -
		April	0	0	0.00	\$ 288.00	\$ 1.3103	264.50	320.52	530.50	634.35	0.00	0	\$ -
		May	0	0	0.00	\$ 288.00	\$ 1.3103	111.00	106.87	264.50	320.52	0.00	0	\$ -
		June	0	0	0.00	\$ 288.00	\$ 1.3103	2.00	7.12	111.00	106.87	0.00	0	\$ -
		July	0	0	0.00	\$ 288.00	\$ 1.3103	0.00	0.45	2.00	7.12	0.00	0	\$ -
		August	0	0	0.00	\$ 288.00	\$ 1.3103	4.00	1.18	0.00	0.45	0.00	0	\$ -
		September	0	0	0.00	\$ 288.00	\$ 1.3103	17.50	57.57	4.00	1.18	0.00	0	\$ -
		October	0	0	0.00	\$ 288.00	\$ 1.3103	267.00	284.92	17.50	57.57	0.00	0	\$ -
		November	0	0	0.00	\$ 288.00	\$ 1.3103	605.50	626.33	267.00	284.92	0.00	0	\$ -
		December	0	0	0.00	\$ 288.00	\$ 1.3103	1020.50	1008.83	605.50	626.33	0.00	0	\$ -
		Total	0	0									0	\$ -
KTOP-19	LVTt-T1	January	10	15,941	1,594.10	\$ 288.00	\$ 1.3103	981.00	1.429184	1067.50	993.28	129.32	1,293	\$ 1,694
		February	10	9,545	954.50	\$ 288.00	\$ 1.3103	582.00	859.75	981.00	1071.48	396.96	3,970	\$ 5,201
		March	10	7,140	714.00	\$ 288.00	\$ 1.3103	506.00	613.52	582.00	859.75	153.66	1,537	\$ 2,013
		April	10	3,453	345.30	\$ 288.00	\$ 1.3103	251.00	310.18	506.00	613.52	84.58	846	\$ 1,108
		May	12	2,620	218.33	\$ 288.00	\$ 1.3103	87.00	98.82	251.00	310.18	16.89	203	\$ 266
		June	12	1,505	125.42	\$ 288.00	\$ 1.3103	0.00	5.50	87.00	98.82	7.86	94	\$ 124
		July	12	1,449	120.75	\$ 288.00	\$ 1.3103	0.00	0.18	0.00	5.50	0.26	3	\$ 4
		August	12	1,399	116.58	\$ 288.00	\$ 1.3103	0.00	1.12	0.00	0.18	1.60	19	\$ 25
		September	12	1,520	126.67	\$ 288.00	\$ 1.3103	13.50	55.20	0.00	1.12	59.60	715	\$ 937
		October	12	4,015	334.58	\$ 288.00	\$ 1.3103	246.50	277.72	13.50	55.20	44.61	535	\$ 701
		November	11	7,847	713.36	\$ 288.00	\$ 1.3103	577.00	621.00	246.50	277.72	62.88	692	\$ 906
		December	11	12,351	1,122.82	\$ 288.00	\$ 1.3103	997.00	993.28	577.00	621.00	(5.31)	(58)	\$ (77)
		Total	11	68,785									9,848	\$ 12,904
KICT-20	LVTt-T1	January	34	42,010	1,247.74	\$ 288.00	\$ 1.3103	880.00	1.162007	994.50	936.50	123.54	4,159	\$ 5,450
		February	33	26,698	813.95	\$ 288.00	\$ 1.3103	539.00	780.47	880.00	986.32	280.59	9,203	\$ 12,059
		March	33	21,631	655.48	\$ 288.00	\$ 1.3103	435.50	557.42	539.00	780.47	141.67	4,675	\$ 6,126
		April	33	12,616	382.30	\$ 288.00	\$ 1.3103	241.50	276.18	435.50	557.42	40.30	1,330	\$ 1,743
		May	30	5,525	184.17	\$ 288.00	\$ 1.3103	79.00	80.08	241.50	276.18	1.26	38	\$ 49
		June	30	3,579	119.30	\$ 288.00	\$ 1.3103	0.00	3.53	79.00	80.08	4.11	123	\$ 161
		July	30	4,554	151.80	\$ 288.00	\$ 1.3103	0.00	0.10	0.00	3.53	0.12	3	\$ 5
		August	30	3,491	116.37	\$ 288.00	\$ 1.3103	0.00	0.12	0.00	0.10	0.14	4	\$ 5
		September	30	6,205	206.83	\$ 288.00	\$ 1.3103	7.00	32.20	0.00	0.12	29.28	878	\$ 1,151
		October	30	13,518	450.60	\$ 288.00	\$ 1.3103	221.50	224.27	7.00	32.20	3.21	96	\$ 126
		November	26	18,478	710.69	\$ 288.00	\$ 1.3103	514.50	567.38	221.50	224.27	61.45	1,598	\$ 2,093
		December	26	30,794	1,184.38	\$ 288.00	\$ 1.3103	877.00	936.50	514.50	567.38	69.14	1,798	\$ 2,355
		Total	30	189,099									23,907	\$ 31,325
Class Total			42	257,884									33,755	\$ 44,229

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Weather Normalization															
Weather Station	Customer Classification	TY: 201701 - 201712	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment	
KMCI-09		Month						Actual	Normal	Actual	Normal				
	LVTt-T2	January	0	0	0.00	\$ 367.00	\$ 1.3103	1014.00	1099.95	1081.50	1008.83	0.00	0	\$	-
		February	0	0	0.00	\$ 367.00	\$ 1.3103	598.50	888.65	1014.00	1099.95	0.00	0	\$	-
		March	0	0	0.00	\$ 367.00	\$ 1.3103	530.50	634.35	598.50	888.65	0.00	0	\$	-
		April	0	0	0.00	\$ 367.00	\$ 1.3103	264.50	320.52	530.50	634.35	0.00	0	\$	-
		May	0	0	0.00	\$ 367.00	\$ 1.3103	111.00	106.87	264.50	320.52	0.00	0	\$	-
		June	0	0	0.00	\$ 367.00	\$ 1.3103	2.00	7.12	111.00	106.87	0.00	0	\$	-
		July	0	0	0.00	\$ 367.00	\$ 1.3103	0.00	0.45	2.00	7.12	0.00	0	\$	-
		August	0	0	0.00	\$ 367.00	\$ 1.3103	4.00	1.18	0.00	0.45	0.00	0	\$	-
		September	0	0	0.00	\$ 367.00	\$ 1.3103	17.50	57.57	4.00	1.18	0.00	0	\$	-
		October	0	0	0.00	\$ 367.00	\$ 1.3103	267.00	284.92	17.50	57.57	0.00	0	\$	-
		November	0	0	0.00	\$ 367.00	\$ 1.3103	605.50	626.33	267.00	284.92	0.00	0	\$	-
		December	0	0	0.00	\$ 367.00	\$ 1.3103	1020.50	1008.83	605.50	626.33	0.00	0	\$	-
		Total	0	0									0	\$	-
KTOP-19									2.493427		0.000000				
	LVTt-T2	January	9	29,884	3,401.81	\$ 367.00	\$ 1.3103	981.00	1071.48	1067.50	993.28	225.61	1,982	\$	2,597
		February	9	20,030	2,280.09	\$ 367.00	\$ 1.3103	582.00	859.75	981.00	1071.48	692.55	6,084	\$	7,972
		March	9	18,619	2,119.47	\$ 367.00	\$ 1.3103	506.00	613.52	582.00	859.75	268.08	2,355	\$	3,086
		April	9	10,059	1,145.05	\$ 367.00	\$ 1.3103	251.00	310.18	506.00	613.52	147.57	1,296	\$	1,699
		May	9	5,524	613.78	\$ 367.00	\$ 1.3103	87.00	98.82	251.00	310.18	29.46	265	\$	347
		June	9	3,670	407.78	\$ 367.00	\$ 1.3103	0.00	5.50	87.00	98.82	13.71	123	\$	162
		July	9	3,200	355.56	\$ 367.00	\$ 1.3103	0.00	0.18	0.00	5.50	0.46	4	\$	5
		August	9	3,478	386.44	\$ 367.00	\$ 1.3103	0.00	1.12	0.00	0.18	2.78	25	\$	33
		September	9	3,307	367.44	\$ 367.00	\$ 1.3103	13.50	55.20	0.00	1.12	103.98	936	\$	1,226
		October	9	7,541	837.89	\$ 367.00	\$ 1.3103	246.50	277.72	13.50	55.20	77.84	701	\$	918
		November	9	15,198	1,688.67	\$ 367.00	\$ 1.3103	577.00	621.00	246.50	277.72	109.71	987	\$	1,294
		December	9	29,087	3,231.89	\$ 367.00	\$ 1.3103	997.00	993.28	577.00	621.00	(9.27)	(83)	\$	(109)
		Total	9	149,597									14,675	\$	19,229
KICT-20									1.260877		0.000000				
	LVTt-T2	January	20	34,127	1,706.35	\$ 367.00	\$ 1.3103	880.00	986.32	994.50	936.50	134.05	2,681	\$	3,513
		February	20	22,876	1,143.80	\$ 367.00	\$ 1.3103	539.00	780.47	880.00	986.32	304.46	6,089	\$	7,979
		March	20	24,434	1,221.70	\$ 367.00	\$ 1.3103	435.50	557.42	539.00	780.47	153.72	3,074	\$	4,028
		April	20	16,105	805.25	\$ 367.00	\$ 1.3103	241.50	276.18	435.50	557.42	43.73	875	\$	1,146
		May	23	17,264	750.61	\$ 367.00	\$ 1.3103	79.00	80.08	241.50	276.18	1.37	31	\$	41
		June	24	13,674	574.91	\$ 367.00	\$ 1.3103	0.00	3.53	79.00	80.08	4.46	106	\$	139
		July	24	38,046	1,599.60	\$ 367.00	\$ 1.3103	0.00	0.10	0.00	3.53	0.13	3	\$	4
		August	24	14,481	608.84	\$ 367.00	\$ 1.3103	0.00	0.12	0.00	0.10	0.15	3	\$	5
		September	24	14,986	630.07	\$ 367.00	\$ 1.3103	7.00	32.20	0.00	0.12	31.77	756	\$	990
		October	24	25,308	1,064.04	\$ 367.00	\$ 1.3103	221.50	224.27	7.00	32.20	3.49	83	\$	109
		November	24	28,553	1,200.48	\$ 367.00	\$ 1.3103	514.50	567.38	221.50	224.27	66.68	1,586	\$	2,078
		December	24	41,274	1,735.31	\$ 367.00	\$ 1.3103	877.00	936.50	514.50	567.38	75.02	1,784	\$	2,338
		Total	22	291,128									17,072	\$	22,370
Class Total			31	440,725									31,748	\$	41,599

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Weather Normalization			Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
					Avg Usage	Basic Service	Commodity Rate	Actual	Normal	Actual	Normal			
									0.000000		0.000000			
KMCI-09	LVTt-T3	January	0	0	0.00	\$ 495.00	\$ 1.3103	1014.00	1099.95	1081.50	1008.83	0.00	0	\$ -
		February	0	0	0.00	\$ 495.00	\$ 1.3103	598.50	888.65	1014.00	1099.95	0.00	0	\$ -
		March	0	0	0.00	\$ 495.00	\$ 1.3103	530.50	634.35	598.50	888.65	0.00	0	\$ -
		April	0	0	0.00	\$ 495.00	\$ 1.3103	264.50	320.52	530.50	634.35	0.00	0	\$ -
		May	0	0	0.00	\$ 495.00	\$ 1.3103	111.00	106.87	264.50	320.52	0.00	0	\$ -
		June	0	0	0.00	\$ 495.00	\$ 1.3103	2.00	7.12	111.00	106.87	0.00	0	\$ -
		July	0	0	0.00	\$ 495.00	\$ 1.3103	0.00	0.45	2.00	7.12	0.00	0	\$ -
		August	0	0	0.00	\$ 495.00	\$ 1.3103	4.00	1.18	0.00	0.45	0.00	0	\$ -
		September	0	0	0.00	\$ 495.00	\$ 1.3103	17.50	57.57	4.00	1.18	0.00	0	\$ -
		October	0	0	0.00	\$ 495.00	\$ 1.3103	267.00	284.92	17.50	57.57	0.00	0	\$ -
		November	0	0	0.00	\$ 495.00	\$ 1.3103	605.50	626.33	267.00	284.92	0.00	0	\$ -
		December	0	0	0.00	\$ 495.00	\$ 1.3103	1020.50	1008.83	605.50	626.33	0.00	0	\$ -
		Total	0	0									0	\$ -
KTOP-19	LVTt-T3	January	4	11,857	2,964.25	\$ 495.00	\$ 1.3103	981.00	2.876007	1067.50	993.28	260.23	1,041	\$ 1,364
		February	4	9,459	2,364.75	\$ 495.00	\$ 1.3103	582.00	859.75	981.00	1071.48	798.81	3,195	\$ 4,187
		March	4	9,781	2,445.25	\$ 495.00	\$ 1.3103	506.00	613.52	582.00	859.75	309.22	1,237	\$ 1,621
		April	4	8,173	2,043.25	\$ 495.00	\$ 1.3103	251.00	310.18	506.00	613.52	170.21	681	\$ 892
		May	2	4,756	2,378.00	\$ 495.00	\$ 1.3103	87.00	98.82	251.00	310.18	33.98	68	\$ 89
		June	2	4,354	2,177.00	\$ 495.00	\$ 1.3103	0.00	5.50	87.00	98.82	15.82	32	\$ 41
		July	2	4,327	2,163.50	\$ 495.00	\$ 1.3103	0.00	0.18	0.00	5.50	0.53	1	\$ 1
		August	2	4,543	2,271.50	\$ 495.00	\$ 1.3103	0.00	1.12	0.00	0.18	3.21	6	\$ 8
		September	2	4,140	2,070.00	\$ 495.00	\$ 1.3103	13.50	55.20	0.00	1.12	119.93	240	\$ 314
		October	2	4,933	2,466.50	\$ 495.00	\$ 1.3103	246.50	277.72	13.50	55.20	89.78	180	\$ 235
		November	2	4,575	2,287.50	\$ 495.00	\$ 1.3103	577.00	621.00	246.50	277.72	126.54	253	\$ 332
		December	2	5,449	2,724.50	\$ 495.00	\$ 1.3103	997.00	993.28	577.00	621.00	(10.69)	(21)	\$ (28)
		Total	3	76,347									6,912	\$ 9,057
KICT-20	LVTt-T3	January	11	28,433	2,584.82	\$ 495.00	\$ 1.3103	880.00	0.425027	994.50	936.50	45.19	497	\$ 651
		February	11	22,911	2,082.82	\$ 495.00	\$ 1.3103	539.00	780.47	880.00	986.32	102.63	1,129	\$ 1,479
		March	11	26,301	2,391.00	\$ 495.00	\$ 1.3103	435.50	557.42	539.00	780.47	51.82	570	\$ 747
		April	11	27,190	2,471.82	\$ 495.00	\$ 1.3103	241.50	276.18	435.50	557.42	14.74	162	\$ 212
		May	13	36,069	2,774.54	\$ 495.00	\$ 1.3103	79.00	80.08	241.50	276.18	0.46	6	\$ 8
		June	13	33,610	2,585.38	\$ 495.00	\$ 1.3103	0.00	3.53	79.00	80.08	1.50	20	\$ 26
		July	13	21,973	1,690.23	\$ 495.00	\$ 1.3103	0.00	0.10	0.00	3.53	0.04	1	\$ 1
		August	13	29,688	2,283.69	\$ 495.00	\$ 1.3103	0.00	0.12	0.00	0.10	0.05	1	\$ 1
		September	13	23,144	1,780.31	\$ 495.00	\$ 1.3103	7.00	32.20	0.00	0.12	10.71	139	\$ 182
		October	13	30,098	2,315.23	\$ 495.00	\$ 1.3103	221.50	224.27	7.00	32.20	1.18	15	\$ 20
		November	13	30,612	2,354.77	\$ 495.00	\$ 1.3103	514.50	567.38	221.50	224.27	22.48	292	\$ 383
		December	13	30,002	2,307.85	\$ 495.00	\$ 1.3103	877.00	936.50	514.50	567.38	25.29	329	\$ 431
		Total	12	340,031									3,160	\$ 4,141
Class Total			15	416,378								10,072	\$ 13,198	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Weather Normalization					Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
					Avg Usage	Basic Service	Commodity Rate	Actual	Normal	Actual	Normal					
KMCI-09	LVTt-T4	January	0	0	0.00	\$ 621.00	\$ 1.3103	1014.00	0.000000	1081.50	0.000000	0.00	0	\$ -		
		February	0	0	0.00	\$ 621.00	\$ 1.3103	598.50	888.65	1014.00	1099.95	0.00	0	\$ -		
		March	0	0	0.00	\$ 621.00	\$ 1.3103	530.50	634.35	598.50	888.65	0.00	0	\$ -		
		April	0	0	0.00	\$ 621.00	\$ 1.3103	264.50	320.52	530.50	634.35	0.00	0	\$ -		
		May	0	0	0.00	\$ 621.00	\$ 1.3103	111.00	106.87	264.50	320.52	0.00	0	\$ -		
		June	0	0	0.00	\$ 621.00	\$ 1.3103	2.00	7.12	111.00	106.87	0.00	0	\$ -		
		July	0	0	0.00	\$ 621.00	\$ 1.3103	0.00	0.45	2.00	7.12	0.00	0	\$ -		
		August	0	0	0.00	\$ 621.00	\$ 1.3103	4.00	1.18	0.00	0.45	0.00	0	\$ -		
		September	0	0	0.00	\$ 621.00	\$ 1.3103	17.50	57.57	4.00	1.18	0.00	0	\$ -		
		October	0	0	0.00	\$ 621.00	\$ 1.3103	267.00	284.92	17.50	57.57	0.00	0	\$ -		
		November	0	0	0.00	\$ 621.00	\$ 1.3103	605.50	626.33	267.00	284.92	0.00	0	\$ -		
		December	0	0	0.00	\$ 621.00	\$ 1.3103	1020.50	1008.83	605.50	626.33	0.00	0	\$ -		
		Total	0	0									0	\$ -		
KTOP-19	LVTt-T4	January	10	218,624	21,862.40	\$ 621.00	\$ 1.3103	981.00	14.941570	1067.50	993.28	1,351.96	13,520	\$ 17,715		
		February	10	154,553	15,455.30	\$ 621.00	\$ 1.3103	582.00	859.75	981.00	1071.48	4,150.02	41,500	\$ 54,378		
		March	10	149,983	14,998.30	\$ 621.00	\$ 1.3103	506.00	613.52	582.00	859.75	1,606.47	16,065	\$ 21,050		
		April	10	109,746	10,974.60	\$ 621.00	\$ 1.3103	251.00	310.18	506.00	613.52	884.29	8,843	\$ 11,587		
		May	10	80,635	8,063.50	\$ 621.00	\$ 1.3103	87.00	98.82	251.00	310.18	176.56	1,766	\$ 2,313		
		June	10	70,695	7,069.50	\$ 621.00	\$ 1.3103	0.00	5.50	87.00	98.82	82.18	822	\$ 1,077		
		July	10	67,316	6,731.60	\$ 621.00	\$ 1.3103	0.00	0.18	0.00	5.50	2.74	27	\$ 36		
		August	10	69,730	6,973.00	\$ 621.00	\$ 1.3103	0.00	1.12	0.00	0.18	16.68	167	\$ 219		
		September	10	67,165	6,716.50	\$ 621.00	\$ 1.3103	13.50	55.20	0.00	1.12	623.06	6,231	\$ 8,164		
		October	10	98,365	9,836.50	\$ 621.00	\$ 1.3103	246.50	277.72	13.50	55.20	466.43	4,664	\$ 6,112		
		November	10	148,279	14,827.90	\$ 621.00	\$ 1.3103	577.00	621.00	246.50	277.72	657.43	6,574	\$ 8,614		
		December	10	210,572	21,057.20	\$ 621.00	\$ 1.3103	997.00	993.28	577.00	621.00	(55.53)	(555)	\$ (728)		
		Total	10	1,445,663									99,623	\$ 130,536		
KICT-20	LVTt-T4	January	23	303,918	13,213.83	\$ 621.00	\$ 1.3103	880.00	1.797278	994.50	936.50	191.08	4,395	\$ 5,759		
		February	23	207,324	9,014.09	\$ 621.00	\$ 1.3103	539.00	780.47	880.00	986.32	433.98	9,982	\$ 13,079		
		March	23	196,676	8,551.13	\$ 621.00	\$ 1.3103	435.50	557.42	539.00	780.47	219.12	5,040	\$ 6,604		
		April	23	182,355	7,928.48	\$ 621.00	\$ 1.3103	241.50	276.18	435.50	557.42	62.34	1,434	\$ 1,879		
		May	21	174,501	8,309.57	\$ 621.00	\$ 1.3103	79.00	80.08	241.50	276.18	1.95	41	\$ 54		
		June	21	158,725	7,558.33	\$ 621.00	\$ 1.3103	0.00	3.53	79.00	80.08	6.35	133	\$ 175		
		July	21	234,650	11,173.81	\$ 621.00	\$ 1.3103	0.00	0.10	0.00	3.53	0.18	4	\$ 5		
		August	21	183,730	8,749.05	\$ 621.00	\$ 1.3103	0.00	0.12	0.00	0.10	0.21	4	\$ 6		
		September	21	157,295	7,490.24	\$ 621.00	\$ 1.3103	7.00	32.20	0.00	0.12	45.29	951	\$ 1,246		
		October	21	162,793	7,752.05	\$ 621.00	\$ 1.3103	221.50	224.27	7.00	32.20	4.97	104	\$ 137		
		November	21	176,902	8,423.90	\$ 621.00	\$ 1.3103	514.50	567.38	221.50	224.27	95.05	1,996	\$ 2,615		
		December	21	226,255	10,774.05	\$ 621.00	\$ 1.3103	877.00	936.50	514.50	567.38	106.94	2,246	\$ 2,943		
		Total	22	2,365,124									26,330	\$ 34,500		
Class Total			32	3,810,787									125,952	\$ 165,035		

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Average Usage	Basic Service	Commodity Rate	Weather Normalization				Current Month PCP		Previous Month PCP		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment		
								Current Month CDD		Previous Month CDD		Actual	Normal	Actual	Normal				Actual	Normal
								Actual	Normal	Actual	Normal									
KMCI-09	GIS	January	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.000000	0.00	0.000000	1.39	1.08	1.19	1.45	0	0	\$ -		
		February	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.06	1.45	1.39	1.08	0	0	\$ -		
		March	0	0	0.00	\$ 36.00	\$ 1.6819	5.00	4.30	0.00	0.00	2.81	2.31	0.06	1.45	0	0	\$ -		
		April	0	0	0.00	\$ 36.00	\$ 1.6819	25.50	22.70	5.00	4.30	6.64	3.97	2.81	2.31	0	0	\$ -		
		May	0	0	0.00	\$ 36.00	\$ 1.6819	73.50	94.57	25.50	22.70	5.37	5.05	6.64	3.97	0	0	\$ -		
		June	0	0	0.00	\$ 36.00	\$ 1.6819	291.00	280.97	73.50	94.57	6.43	5.19	5.37	5.05	0	0	\$ -		
		July	0	0	0.00	\$ 36.00	\$ 1.6819	437.50	414.45	291.00	280.97	5.00	4.33	6.43	5.19	0	0	\$ -		
		August	0	0	0.00	\$ 36.00	\$ 1.6819	215.00	375.20	437.50	414.45	10.19	4.23	5.00	4.33	0	0	\$ -		
		September	0	0	0.00	\$ 36.00	\$ 1.6819	200.50	158.17	215.00	375.20	2.80	4.34	10.19	4.23	0	0	\$ -		
		October	0	0	0.00	\$ 36.00	\$ 1.6819	40.00	30.40	200.50	158.17	4.87	2.99	2.80	4.34	0	0	\$ -		
		November	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	1.40	40.00	30.40	0.27	2.02	4.87	2.99	0	0	\$ -		
		December	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	1.40	0.19	1.45	0.27	2.02	0	0	\$ -		
		Total	0	0												0	0	\$ -		
KTOP-19	GIS	January	10	11	1.15	\$ 36.00	\$ 1.6819	0.00	0.000000	0.00	0.294913	1.28	0.89	1.05	1.35	0	0	\$ -		
		February	10	7	0.74	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.11	1.32	1.28	0.89	0	0	\$ -		
		March	10	6	0.61	\$ 36.00	\$ 1.6819	8.50	4.93	0.00	0.00	4.03	2.28	0.11	1.32	0	0	\$ -		
		April	10	425	42.45	\$ 36.00	\$ 1.6819	27.50	24.00	8.50	4.93	6.04	3.70	4.03	2.28	(1)	(11)	\$ (18)		
		May	10	11	1.13	\$ 36.00	\$ 1.6819	89.00	108.20	27.50	24.00	3.69	4.90	6.04	3.70	(1)	(10)	\$ (17)		
		June	10	277	27.72	\$ 36.00	\$ 1.6819	315.50	305.73	89.00	108.20	6.59	4.91	3.69	4.90	6	57	\$ 95		
		July	10	1,978	197.81	\$ 36.00	\$ 1.6819	478.50	446.40	315.50	305.73	4.80	3.83	6.59	4.91	(3)	(29)	\$ (48)		
		August	10	1,646	164.62	\$ 36.00	\$ 1.6819	246.50	396.47	478.50	446.40	6.93	4.40	4.80	3.83	(9)	(95)	\$ (159)		
		September	10	474	48.40	\$ 36.00	\$ 1.6819	221.00	169.12	246.50	396.47	1.78	3.69	6.93	4.40	44	433	\$ 729		
		October	10	438	43.85	\$ 36.00	\$ 1.6819	51.00	33.12	221.00	169.12	2.94	2.76	1.78	3.69	(15)	(153)	\$ (257)		
		November	10	27	2.65	\$ 36.00	\$ 1.6819	0.00	1.40	51.00	33.12	0.10	1.77	2.94	2.76	(5)	(53)	\$ (89)		
		December	10	136	13.61	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	1.40	0.31	1.35	0.10	1.77	0	4	\$ 7		
		Total	10	5,438												1	144	\$ 242		
KICT-20	GIS	January	207	1,093	5.27	\$ 36.00	\$ 1.6819	0.00	0.142943	0.00	0.234726	2.79	0.82	0.66	1.10	3	522	\$ 878		
		February	209	1,146	5.48	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.83	1.19	2.79	0.82	5	1,107	\$ 1,863		
		March	206	1,549	7.52	\$ 36.00	\$ 1.6819	17.00	4.13	0.00	0.00	3.50	2.35	0.83	1.19	(1)	(138)	\$ (232)		
		April	210	4,174	19.88	\$ 36.00	\$ 1.6819	24.50	23.87	17.00	4.13	7.28	3.04	3.50	2.35	9	1,839	\$ 3,093		
		May	208	2,225	10.71	\$ 36.00	\$ 1.6819	106.00	125.58	24.50	23.87	4.44	4.73	7.28	3.04	15	3,122	\$ 5,250		
		June	208	5,034	24.17	\$ 36.00	\$ 1.6819	363.00	353.70	106.00	125.58	4.58	4.94	4.44	4.73	2	349	\$ 586		
		July	191	28,016	146.86	\$ 36.00	\$ 1.6819	541.50	508.67	363.00	353.70	1.73	3.84	4.58	4.94	(12)	(2,314)	\$ (3,891)		
		August	221	45,229	204.44	\$ 36.00	\$ 1.6819	354.00	463.48	541.50	508.67	2.20	4.17	1.73	3.84	(2)	(530)	\$ (891)		
		September	204	26,864	131.69	\$ 36.00	\$ 1.6819	269.50	225.28	354.00	463.48	2.34	3.20	2.20	4.17	12	2,377	\$ 3,997		
		October	206	15,621	75.89	\$ 36.00	\$ 1.6819	65.50	45.18	269.50	225.28	3.60	2.53	2.34	3.20	(14)	(2,840)	\$ (4,777)		
		November	207	2,526	12.21	\$ 36.00	\$ 1.6819	1.50	1.62	65.50	45.18	0.52	1.38	3.60	2.53	(3)	(655)	\$ (1,102)		
		December	201	2,143	10.68	\$ 36.00	\$ 1.6819	0.00	0.00	1.50	1.62	0.03	1.10	0.52	1.38	(5)	(947)	\$ (1,593)		
		Total	206	135,621												1	1,891	\$ 3,180		
Class Total			216	141,059												2,035	\$ 3,423			

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Weather Normalization		Previous Month CDD		Current Month PCP		Previous Month PCP		Volumetric Adjustment	Volumetric Adjustment	Revenue Adjustment
								Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal			
KMCI-09								0.000000		0.000000		0.000000		0.000000				
	GIT	January	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	1.39	1.08	1.19	1.5	0	0	\$ -
		February	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.06	1.45	1.39	1.1	0	0	\$ -
		March	0	0	0.00	\$ 36.00	\$ 1.6819	5.00	4.30	0.00	0.00	2.81	2.31	0.06	1.5	0	0	\$ -
		April	0	0	0.00	\$ 36.00	\$ 1.6819	25.50	22.70	5.00	4.30	6.64	3.97	2.81	2.3	0	0	\$ -
		May	0	0	0.00	\$ 36.00	\$ 1.6819	73.50	94.57	25.50	22.70	5.37	5.05	6.64	4.0	0	0	\$ -
		June	0	0	0.00	\$ 36.00	\$ 1.6819	291.00	280.97	73.50	94.57	6.43	5.19	5.37	5.1	0	0	\$ -
		July	0	0	0.00	\$ 36.00	\$ 1.6819	437.50	414.45	291.00	280.97	5.00	4.33	6.43	5.2	0	0	\$ -
		August	0	0	0.00	\$ 36.00	\$ 1.6819	215.00	375.20	437.50	414.45	10.19	4.23	5.00	4.3	0	0	\$ -
		September	0	0	0.00	\$ 36.00	\$ 1.6819	200.50	158.17	215.00	375.20	2.80	4.34	10.19	4.2	0	0	\$ -
		October	0	0	0.00	\$ 36.00	\$ 1.6819	40.00	30.40	200.50	158.17	4.87	2.99	2.80	4.3	0	0	\$ -
		November	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	1.40	40.00	30.40	0.27	2.02	4.87	3.0	0	0	\$ -
		December	0	0	0.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	1.40	0.19	1.45	0.27	2.0	0	0	\$ -
		Total	0	0												0	0	\$ -
KTOP-19								0.000000		0.281436		0.000000		0.000000				
	GIT	January	1	22	22.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	1.28	0.89	1.05	1.3	0	0	\$ -
		February	1	7	7.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.11	1.32	1.28	0.9	0	0	\$ -
		March	1	5	5.00	\$ 36.00	\$ 1.6819	8.50	4.93	0.00	0.00	4.03	2.28	0.11	1.3	0	0	\$ -
		April	1	3	3.00	\$ 36.00	\$ 1.6819	27.50	24.00	8.50	4.93	6.04	3.70	4.03	2.3	(1)	(1)	\$ (2)
		May	1	3	3.00	\$ 36.00	\$ 1.6819	89.00	108.20	27.50	24.00	3.69	4.90	6.04	3.7	(1)	(1)	\$ (2)
		June	1	49	49.00	\$ 36.00	\$ 1.6819	315.50	305.73	89.00	108.20	6.59	4.91	3.69	4.9	5	5	\$ 9
		July	1	101	101.00	\$ 36.00	\$ 1.6819	478.50	446.40	315.50	305.73	4.80	3.83	6.59	4.9	(3)	(3)	\$ (5)
		August	1	158	158.00	\$ 36.00	\$ 1.6819	246.50	396.47	478.50	446.40	6.93	4.40	4.80	3.8	(9)	(9)	\$ (15)
		September	1	191	191.00	\$ 36.00	\$ 1.6819	221.00	169.12	246.50	396.47	1.78	3.69	6.93	4.4	42	42	\$ 71
		October	1	7	7.00	\$ 36.00	\$ 1.6819	51.00	33.12	221.00	169.12	2.94	2.76	1.78	3.7	(15)	(15)	\$ (25)
		November	1	8	8.00	\$ 36.00	\$ 1.6819	0.00	1.40	51.00	33.12	0.10	1.77	2.94	2.8	(5)	(5)	\$ (8)
		December	1	10	10.00	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	1.40	0.31	1.35	0.10	1.8	0	0	\$ 1
		Total	1	564												1	15	\$ 25
KICT-20								0.000000		0.307872		0.000000		-6.763430				
	GIT	January	512	3,726	7.28	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	2.79	0.82	0.66	1.1	(3)	(1,538)	\$ (2,586)
		February	510	8,070	15.82	\$ 36.00	\$ 1.6819	0.00	0.00	0.00	0.00	0.83	1.19	2.79	0.8	13	6,787	\$ 11,414
		March	510	23,177	45.41	\$ 36.00	\$ 1.6819	17.00	4.13	0.00	0.00	3.50	2.35	0.83	1.2	(2)	(1,243)	\$ (2,090)
		April	512	7,301	14.27	\$ 36.00	\$ 1.6819	24.50	23.87	17.00	4.13	7.28	3.04	3.50	2.3	4	1,958	\$ 3,293
		May	512	18,394	35.93	\$ 36.00	\$ 1.6819	106.00	125.58	24.50	23.87	4.44	4.73	7.28	3.0	28	14,577	\$ 24,517
		June	513	102,499	199.80	\$ 36.00	\$ 1.6819	363.00	353.70	106.00	125.58	4.58	4.94	4.44	4.7	4	2,084	\$ 3,506
		July	513	269,488	525.32	\$ 36.00	\$ 1.6819	541.50	508.67	363.00	353.70	1.73	3.84	4.58	4.9	(5)	(2,711)	\$ (4,560)
		August	510	225,944	443.04	\$ 36.00	\$ 1.6819	354.00	463.48	541.50	508.67	2.20	4.17	1.73	3.8	(24)	(12,434)	\$ (20,913)
		September	512	125,466	245.18	\$ 36.00	\$ 1.6819	269.50	225.28	354.00	463.48	2.34	3.20	2.20	4.2	20	10,417	\$ 17,520
		October	513	21,411	41.76	\$ 36.00	\$ 1.6819	65.50	45.18	269.50	225.28	3.60	2.53	2.34	3.2	(19)	(9,964)	\$ (16,759)
		November	513	17,796	34.68	\$ 36.00	\$ 1.6819	1.50	1.62	65.50	45.18	0.52	1.38	3.60	2.5	1	517	\$ 869
		December	512	14,376	28.10	\$ 36.00	\$ 1.6819	0.00	0.00	1.50	1.62	0.03	1.10	0.52	1.4	(6)	(2,961)	\$ (4,980)
		Total	512	837,649												1	5,488	\$ 9,231
Class Total			513	838,213													5,503	\$ 9,256

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Weather Normalization								Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment	
					Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD						
								Actual	Normal	Actual	Normal					
KMCI-09									0.000000		0.376456					
	CNGk	January	6	4,161	693.50	\$ 60.00	\$ 0.82	1014.00	1099.95	1081.50	1008.83	(27.36)	(164)	\$	(135)	
		February	6	4,791	798.50	\$ 60.00	\$ 0.82	598.50	888.65	1014.00	1099.95	32.36	194	\$	159	
		March	6	4,195	699.17	\$ 60.00	\$ 0.82	530.50	634.35	598.50	888.65	109.23	655	\$	537	
		April	6	3,388	564.67	\$ 60.00	\$ 0.82	264.50	320.52	530.50	634.35	39.09	235	\$	192	
		May	6	4,004	667.33	\$ 60.00	\$ 0.82	111.00	106.87	264.50	320.52	21.09	127	\$	104	
		June	6	2,781	463.50	\$ 60.00	\$ 0.82	2.00	7.12	111.00	106.87	(1.56)	(9)	\$	(8)	
		July	6	2,643	440.50	\$ 60.00	\$ 0.82	0.00	0.45	2.00	7.12	1.93	12	\$	9	
		August	6	4,291	715.17	\$ 60.00	\$ 0.82	4.00	1.18	0.00	0.45	0.17	1	\$	1	
		September	6	4,128	688.00	\$ 60.00	\$ 0.82	17.50	57.57	4.00	1.18	(1.06)	(6)	\$	(5)	
		October	6	4,745	790.83	\$ 60.00	\$ 0.82	267.00	284.92	17.50	57.57	15.08	91	\$	74	
		November	6	4,713	785.50	\$ 60.00	\$ 0.82	605.50	626.33	267.00	284.92	6.74	40	\$	33	
		December	6	3,966	661.00	\$ 60.00	\$ 0.82	1020.50	1008.83	605.50	626.33	7.84	47	\$	39	
		Total	6	47,806									1,221	\$	1,001	
KTOP-19									0.000000		0.000000					
	CNGk	January	1	10,506	10,506.00	\$ 60.00	\$ 0.82	981.00	1071.48	1067.50	993.28	0.00	0	\$	-	
		February	1	9,822	9,822.00	\$ 60.00	\$ 0.82	582.00	859.75	981.00	1071.48	0.00	0	\$	-	
		March	1	11,326	11,326.00	\$ 60.00	\$ 0.82	506.00	613.52	582.00	859.75	0.00	0	\$	-	
		April	1	10,803	10,803.00	\$ 60.00	\$ 0.82	251.00	310.18	506.00	613.52	0.00	0	\$	-	
		May	1	12,345	12,345.00	\$ 60.00	\$ 0.82	87.00	98.82	251.00	310.18	0.00	0	\$	-	
		June	1	11,071	11,071.00	\$ 60.00	\$ 0.82	0.00	5.50	87.00	98.82	0.00	0	\$	-	
		July	1	10,706	10,706.00	\$ 60.00	\$ 0.82	0.00	0.18	0.00	5.50	0.00	0	\$	-	
		August	1	10,952	10,952.00	\$ 60.00	\$ 0.82	0.00	1.12	0.00	0.18	0.00	0	\$	-	
		September	1	10,512	10,512.00	\$ 60.00	\$ 0.82	13.50	55.20	0.00	1.12	0.00	0	\$	-	
		October	1	10,435	10,435.00	\$ 60.00	\$ 0.82	246.50	277.72	13.50	55.20	0.00	0	\$	-	
		November	1	10,115	10,115.00	\$ 60.00	\$ 0.82	577.00	621.00	246.50	277.72	0.00	0	\$	-	
		December	1	12,084	12,084.00	\$ 60.00	\$ 0.82	997.00	993.28	577.00	621.00	0.00	0	\$	-	
		Total	1	130,677									0	\$	-	
KICT-20									0.000000		0.000000					
	CNGk	January	1	280	280.00	\$ 60.00	\$ 0.82	880.00	986.32	994.50	936.50	0.00	0	\$	-	
		February	1	257	257.00	\$ 60.00	\$ 0.82	539.00	780.47	880.00	986.32	0.00	0	\$	-	
		March	1	285	285.00	\$ 60.00	\$ 0.82	435.50	557.42	539.00	780.47	0.00	0	\$	-	
		April	1	299	299.00	\$ 60.00	\$ 0.82	241.50	276.18	435.50	557.42	0.00	0	\$	-	
		May	1	274	274.00	\$ 60.00	\$ 0.82	79.00	80.08	241.50	276.18	0.00	0	\$	-	
		June	1	253	253.00	\$ 60.00	\$ 0.82	0.00	3.53	79.00	80.08	0.00	0	\$	-	
		July	1	465	465.00	\$ 60.00	\$ 0.82	0.00	0.10	0.00	3.53	0.00	0	\$	-	
		August	1	315	315.00	\$ 60.00	\$ 0.82	0.00	0.12	0.00	0.10	0.00	0	\$	-	
		September	1	236	236.00	\$ 60.00	\$ 0.82	7.00	32.20	0.00	0.12	0.00	0	\$	-	
		October	1	314	314.00	\$ 60.00	\$ 0.82	221.50	224.27	7.00	32.20	0.00	0	\$	-	
		November	1	285	285.00	\$ 60.00	\$ 0.82	514.50	567.38	221.50	224.27	0.00	0	\$	-	
		December	1	256	256.00	\$ 60.00	\$ 0.82	877.00	936.50	514.50	567.38	0.00	0	\$	-	
		Total	1	3,519									0	\$	-	
Class Total			8	182,002									1,221	\$	1,001	

Exhibit DLP – 2
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Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Weather Normalization								Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
					Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD					
								Actual	Normal	Actual	Normal				
KMCI-09									0.000000		0.000000				
	CNGt	January	0	0	0.00	\$ 60.00	\$ 0.82	1014.00	1099.95	1081.50	1008.83	0.00	0 \$	-	
		February	0	0	0.00	\$ 60.00	\$ 0.82	598.50	888.65	1014.00	1099.95	0.00	0 \$	-	
		March	0	0	0.00	\$ 60.00	\$ 0.82	530.50	634.35	598.50	888.65	0.00	0 \$	-	
		April	0	0	0.00	\$ 60.00	\$ 0.82	264.50	320.52	530.50	634.35	0.00	0 \$	-	
		May	0	0	0.00	\$ 60.00	\$ 0.82	111.00	106.87	264.50	320.52	0.00	0 \$	-	
		June	0	0	0.00	\$ 60.00	\$ 0.82	2.00	7.12	111.00	106.87	0.00	0 \$	-	
		July	0	0	0.00	\$ 60.00	\$ 0.82	0.00	0.45	2.00	7.12	0.00	0 \$	-	
		August	0	0	0.00	\$ 60.00	\$ 0.82	4.00	1.18	0.00	0.45	0.00	0 \$	-	
		September	0	0	0.00	\$ 60.00	\$ 0.82	17.50	57.57	4.00	1.18	0.00	0 \$	-	
		October	0	0	0.00	\$ 60.00	\$ 0.82	267.00	284.92	17.50	57.57	0.00	0 \$	-	
		November	0	0	0.00	\$ 60.00	\$ 0.82	605.50	626.33	267.00	284.92	0.00	0 \$	-	
		December	0	0	0.00	\$ 60.00	\$ 0.82	1020.50	1008.83	605.50	626.33	0.00	0 \$	-	
		Total	0	0									0 \$	-	
KTOP-19									0.000000		0.000000				
	CNGt	January	0	0	0.00	\$ 60.00	\$ 0.82	981.00	1071.48	1067.50	993.28	0.00	0 \$	-	
		February	0	0	0.00	\$ 60.00	\$ 0.82	582.00	859.75	981.00	1071.48	0.00	0 \$	-	
		March	0	0	0.00	\$ 60.00	\$ 0.82	506.00	613.52	582.00	859.75	0.00	0 \$	-	
		April	0	0	0.00	\$ 60.00	\$ 0.82	251.00	310.18	506.00	613.52	0.00	0 \$	-	
		May	0	0	0.00	\$ 60.00	\$ 0.82	87.00	98.82	251.00	310.18	0.00	0 \$	-	
		June	0	0	0.00	\$ 60.00	\$ 0.82	0.00	5.50	87.00	98.82	0.00	0 \$	-	
		July	0	0	0.00	\$ 60.00	\$ 0.82	0.00	0.18	0.00	5.50	0.00	0 \$	-	
		August	0	0	0.00	\$ 60.00	\$ 0.82	0.00	1.12	0.00	0.18	0.00	0 \$	-	
		September	0	0	0.00	\$ 60.00	\$ 0.82	13.50	55.20	0.00	1.12	0.00	0 \$	-	
		October	0	0	0.00	\$ 60.00	\$ 0.82	246.50	277.72	13.50	55.20	0.00	0 \$	-	
		November	0	0	0.00	\$ 60.00	\$ 0.82	577.00	621.00	246.50	277.72	0.00	0 \$	-	
		December	0	0	0.00	\$ 60.00	\$ 0.82	997.00	993.28	577.00	621.00	0.00	0 \$	-	
		Total	0	0									0 \$	-	
KICT-20									0.000000		0.000000				
	CNGt	January	2	937	468.50	\$ 60.00	\$ 0.82	880.00	986.32	994.50	936.50	0.00	0 \$	-	
		February	2	4,380	2,190.00	\$ 60.00	\$ 0.82	539.00	780.47	880.00	986.32	0.00	0 \$	-	
		March	2	5,634	2,817.00	\$ 60.00	\$ 0.82	435.50	557.42	539.00	780.47	0.00	0 \$	-	
		April	2	4,380	2,190.00	\$ 60.00	\$ 0.82	241.50	276.18	435.50	557.42	0.00	0 \$	-	
		May	2	4,507	2,253.50	\$ 60.00	\$ 0.82	79.00	80.08	241.50	276.18	0.00	0 \$	-	
		June	2	4,730	2,365.00	\$ 60.00	\$ 0.82	0.00	3.53	79.00	80.08	0.00	0 \$	-	
		July	2	4,790	2,395.00	\$ 60.00	\$ 0.82	0.00	0.10	0.00	3.53	0.00	0 \$	-	
		August	2	5,176	2,588.00	\$ 60.00	\$ 0.82	0.00	0.12	0.00	0.10	0.00	0 \$	-	
		September	2	4,611	2,305.50	\$ 60.00	\$ 0.82	7.00	32.20	0.00	0.12	0.00	0 \$	-	
		October	2	5,196	2,598.00	\$ 60.00	\$ 0.82	221.50	224.27	7.00	32.20	0.00	0 \$	-	
		November	2	5,707	2,853.50	\$ 60.00	\$ 0.82	514.50	567.38	221.50	224.27	0.00	0 \$	-	
		December	2	5,870	2,935.00	\$ 60.00	\$ 0.82	877.00	936.50	514.50	567.38	0.00	0 \$	-	
		Total	2	55,918									0 \$	-	
Class Total			2	55,918									0 \$	-	

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18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Average Usage	Weather Normalization		Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
						Basic Service	Commodity Rate	Actual	Normal	Actual	Normal			
KMCI-09								0.002535		0.002197				
	SGS	January	270	1,149	4.26	\$ 52.20	\$ 0.6427	1014.00	1099.95	1081.50	1008.83	0.06	16	\$ 10
		February	275	628	2.28	\$ 52.20	\$ 0.6427	598.50	888.65	1014.00	1099.95	0.92	255	\$ 164
		March	282	542	1.92	\$ 52.20	\$ 0.6427	530.50	634.35	598.50	888.65	0.90	254	\$ 163
		April	263	280	1.07	\$ 52.20	\$ 0.6427	264.50	320.52	530.50	634.35	0.37	97	\$ 63
		May	281	194	0.69	\$ 52.20	\$ 0.6427	111.00	106.87	264.50	320.52	0.11	32	\$ 20
		June	276	156	0.56	\$ 52.20	\$ 0.6427	2.00	7.12	111.00	106.87	0.00	1	\$ 1
		July	274	129	0.47	\$ 52.20	\$ 0.6427	0.00	0.45	2.00	7.12	0.01	3	\$ 2
		August	274	100	0.37	\$ 52.20	\$ 0.6427	4.00	1.18	0.00	0.45	(0.01)	(2)	\$ (1)
		September	274	156	0.57	\$ 52.20	\$ 0.6427	17.50	57.57	4.00	1.18	0.10	26	\$ 17
		October	276	146	0.53	\$ 52.20	\$ 0.6427	267.00	284.92	17.50	57.57	0.13	37	\$ 24
		November	273	368	1.35	\$ 52.20	\$ 0.6427	605.50	626.33	267.00	284.92	0.09	25	\$ 16
		December	238	849	3.57	\$ 52.20	\$ 0.6427	1020.50	1008.83	605.50	626.33	0.02	4	\$ 2
		Total	271	4,698									748	\$ 481
KTOP-19								0.000000		0.002331				
	SGS	January	31	67	2.15	\$ 52.20	\$ 0.6427	981.00	1071.48	1067.50	993.28	(0.17)	(5)	\$ (3)
		February	33	42	1.28	\$ 52.20	\$ 0.6427	582.00	859.75	981.00	1071.48	0.21	7	\$ 4
		March	32	37	1.14	\$ 52.20	\$ 0.6427	506.00	613.52	582.00	859.75	0.65	21	\$ 13
		April	34	18	0.52	\$ 52.20	\$ 0.6427	251.00	310.18	506.00	613.52	0.25	9	\$ 6
		May	36	12	0.33	\$ 52.20	\$ 0.6427	87.00	98.82	251.00	310.18	0.14	5	\$ 3
		June	36	10	0.27	\$ 52.20	\$ 0.6427	0.00	5.50	87.00	98.82	0.03	1	\$ 1
		July	36	13	0.35	\$ 52.20	\$ 0.6427	0.00	0.18	0.00	5.50	0.01	0	\$ 0
		August	35	10	0.28	\$ 52.20	\$ 0.6427	0.00	1.12	0.00	0.18	0.00	0	\$ 0
		September	36	13	0.37	\$ 52.20	\$ 0.6427	13.50	55.20	0.00	1.12	0.00	0	\$ 0
		October	35	11	0.30	\$ 52.20	\$ 0.6427	246.50	277.72	13.50	55.20	0.10	3	\$ 2
		November	36	28	0.78	\$ 52.20	\$ 0.6427	577.00	621.00	246.50	277.72	0.07	3	\$ 2
		December	37	292	7.81	\$ 52.20	\$ 0.6427	997.00	993.28	577.00	621.00	0.10	4	\$ 2
		Total	35	551									47	\$ 30
KICT-20								0.001191		0.001243				
	SGS	January	365	1,452	3.98	\$ 52.20	\$ 0.6427	880.00	986.32	994.50	936.50	0.05	20	\$ 13
		February	361	1,012	2.80	\$ 52.20	\$ 0.6427	539.00	780.47	880.00	986.32	0.42	152	\$ 97
		March	362	596	1.65	\$ 52.20	\$ 0.6427	435.50	557.42	539.00	780.47	0.45	161	\$ 104
		April	360	541	1.50	\$ 52.20	\$ 0.6427	241.50	276.18	435.50	557.42	0.19	69	\$ 45
		May	360	266	0.74	\$ 52.20	\$ 0.6427	79.00	80.08	241.50	276.18	0.04	16	\$ 10
		June	367	210	0.57	\$ 52.20	\$ 0.6427	0.00	3.53	79.00	80.08	0.01	2	\$ 1
		July	361	170	0.47	\$ 52.20	\$ 0.6427	0.00	0.10	0.00	3.53	0.00	2	\$ 1
		August	362	250	0.69	\$ 52.20	\$ 0.6427	0.00	0.12	0.00	0.10	0.00	0	\$ 0
		September	366	221	0.60	\$ 52.20	\$ 0.6427	7.00	32.20	0.00	0.12	0.03	11	\$ 7
		October	364	244	0.67	\$ 52.20	\$ 0.6427	221.50	224.27	7.00	32.20	0.03	13	\$ 8
		November	361	420	1.16	\$ 52.20	\$ 0.6427	514.50	567.38	221.50	224.27	0.07	24	\$ 15
		December	369	534	1.45	\$ 52.20	\$ 0.6427	877.00	936.50	514.50	567.38	0.14	50	\$ 32
		Total	363	5,916									520	\$ 334
Class Total			669	11,165									1,315	\$ 845

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18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Weather Normalization								Previous Month HDD		Volumetric	Volumetric	Revenue	
			Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Actual	Normal	Actual	Normal	Adj. per capita	Adjustment	Adjustment
								Actual	Normal							
KMCI-09									0.000000		0.000000					
	KGSSD	January	0	0	0.00	\$ 350.00	\$ 0.8673	1014.00	1099.95	1081.50	1008.83	0.00	0	\$	-	
		February	0	0	0.00	\$ 350.00	\$ 0.8673	598.50	888.65	1014.00	1099.95	0.00	0	\$	-	
		March	0	0	0.00	\$ 350.00	\$ 0.8673	530.50	634.35	598.50	888.65	0.00	0	\$	-	
		April	0	0	0.00	\$ 350.00	\$ 0.8673	264.50	320.52	530.50	634.35	0.00	0	\$	-	
		May	0	0	0.00	\$ 350.00	\$ 0.8673	111.00	106.87	264.50	320.52	0.00	0	\$	-	
		June	0	0	0.00	\$ 350.00	\$ 0.8673	2.00	7.12	111.00	106.87	0.00	0	\$	-	
		July	0	0	0.00	\$ 350.00	\$ 0.8673	0.00	0.45	2.00	7.12	0.00	0	\$	-	
		August	0	0	0.00	\$ 350.00	\$ 0.8673	4.00	1.18	0.00	0.45	0.00	0	\$	-	
		September	0	0	0.00	\$ 350.00	\$ 0.8673	17.50	57.57	4.00	1.18	0.00	0	\$	-	
		October	0	0	0.00	\$ 350.00	\$ 0.8673	267.00	284.92	17.50	57.57	0.00	0	\$	-	
		November	0	0	0.00	\$ 350.00	\$ 0.8673	605.50	626.33	267.00	284.92	0.00	0	\$	-	
		December	0	0	0.00	\$ 350.00	\$ 0.8673	1020.50	1008.83	605.50	626.33	0.00	0	\$	-	
		Total	0	0									0	\$	-	
KTOP-19									0.000000		0.000000					
	KGSSD	January	0	0	0.00	\$ 350.00	\$ 0.8673	981.00	1071.48	1067.50	993.28	0.00	0	\$	-	
		February	0	0	0.00	\$ 350.00	\$ 0.8673	582.00	859.75	981.00	1071.48	0.00	0	\$	-	
		March	0	0	0.00	\$ 350.00	\$ 0.8673	506.00	613.52	582.00	859.75	0.00	0	\$	-	
		April	0	0	0.00	\$ 350.00	\$ 0.8673	251.00	310.18	506.00	613.52	0.00	0	\$	-	
		May	0	0	0.00	\$ 350.00	\$ 0.8673	87.00	98.82	251.00	310.18	0.00	0	\$	-	
		June	0	0	0.00	\$ 350.00	\$ 0.8673	0.00	5.50	87.00	98.82	0.00	0	\$	-	
		July	0	0	0.00	\$ 350.00	\$ 0.8673	0.00	0.18	0.00	5.50	0.00	0	\$	-	
		August	0	0	0.00	\$ 350.00	\$ 0.8673	0.00	1.12	0.00	0.18	0.00	0	\$	-	
		September	0	0	0.00	\$ 350.00	\$ 0.8673	13.50	55.20	0.00	1.12	0.00	0	\$	-	
		October	0	0	0.00	\$ 350.00	\$ 0.8673	246.50	277.72	13.50	55.20	0.00	0	\$	-	
		November	0	0	0.00	\$ 350.00	\$ 0.8673	577.00	621.00	246.50	277.72	0.00	0	\$	-	
		December	0	0	0.00	\$ 350.00	\$ 0.8673	997.00	993.28	577.00	621.00	0.00	0	\$	-	
		Total	0	0									0	\$	-	
KICT-20									0.000000		7.628915					
	KGSSD	January	1	3,884	3,884.00	\$ 350.00	\$ 0.8673	880.00	986.32	994.50	936.50	(442.48)	(442)	\$	(384)	
		February	1	4,182	4,182.00	\$ 350.00	\$ 0.8673	539.00	780.47	880.00	986.32	811.08	811	\$	703	
		March	1	3,434	3,434.00	\$ 350.00	\$ 0.8673	435.50	557.42	539.00	780.47	1,842.13	1,842	\$	1,598	
		April	1	2,305	2,305.00	\$ 350.00	\$ 0.8673	241.50	276.18	435.50	557.42	930.09	930	\$	807	
		May	1	39	39.00	\$ 350.00	\$ 0.8673	79.00	80.08	241.50	276.18	264.60	265	\$	229	
		June	1	0	0.00	\$ 350.00	\$ 0.8673	0.00	3.53	79.00	80.08	8.26	8	\$	7	
		July	1	0	0.00	\$ 350.00	\$ 0.8673	0.00	0.10	0.00	3.53	26.96	27	\$	23	
		August	1	0	0.00	\$ 350.00	\$ 0.8673	0.00	0.12	0.00	0.10	0.76	1	\$	1	
		September	1	0	0.00	\$ 350.00	\$ 0.8673	7.00	32.20	0.00	0.12	0.89	1	\$	1	
		October	1	0	0.00	\$ 350.00	\$ 0.8673	221.50	224.27	7.00	32.20	192.25	192	\$	167	
		November	1	632	632.00	\$ 350.00	\$ 0.8673	514.50	567.38	221.50	224.27	21.11	21	\$	18	
		December	1	3,311	3,311.00	\$ 350.00	\$ 0.8673	877.00	936.50	514.50	567.38	403.44	403	\$	350	
		Total	1	17,787									4,059	\$	3,520	
Class Total			1	17,787									4,059	\$	3,520	

Exhibit DLP – 2
18-KGSG-560-RTS
Staff Adjustment IS-11

Weather Normalization															
Weather Station	Customer Classification	TY: 201701 - 201712	Customer Count	Usage	Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment	
		Month						Actual	Normal	Actual	Normal				
KMCI-09									0.000000		0.000000				
	SSR	January	0	0	0.00	\$ 85.00	\$ 1.2497	1014.00	1099.95	1081.50	1008.83	0.00	0	\$ -	
		February	0	0	0.00	\$ 85.00	\$ 1.2497	598.50	888.65	1014.00	1099.95	0.00	0	\$ -	
		March	0	0	0.00	\$ 85.00	\$ 1.2497	530.50	634.35	598.50	888.65	0.00	0	\$ -	
		April	0	0	0.00	\$ 85.00	\$ 1.2497	264.50	320.52	530.50	634.35	0.00	0	\$ -	
		May	0	0	0.00	\$ 85.00	\$ 1.2497	111.00	106.87	264.50	320.52	0.00	0	\$ -	
		June	0	0	0.00	\$ 85.00	\$ 1.2497	2.00	7.12	111.00	106.87	0.00	0	\$ -	
		July	0	0	0.00	\$ 85.00	\$ 1.2497	0.00	0.45	2.00	7.12	0.00	0	\$ -	
		August	0	0	0.00	\$ 85.00	\$ 1.2497	4.00	1.18	0.00	0.45	0.00	0	\$ -	
		September	0	0	0.00	\$ 85.00	\$ 1.2497	17.50	57.57	4.00	1.18	0.00	0	\$ -	
		October	0	0	0.00	\$ 85.00	\$ 1.2497	267.00	284.92	17.50	57.57	0.00	0	\$ -	
		November	0	0	0.00	\$ 85.00	\$ 1.2497	605.50	626.33	267.00	284.92	0.00	0	\$ -	
		December	0	0	0.00	\$ 85.00	\$ 1.2497	1020.50	1008.83	605.50	626.33	0.00	0	\$ -	
		Total	0	0									0	\$ -	
KTOP-19									0.000000		0.000000				
	SSR	January	2	214	106.76	\$ 85.00	\$ 1.2497	981.00	1071.48	1067.50	993.28	0.00	0	\$ -	
		February	1	0	0.00	\$ 85.00	\$ 1.2497	582.00	859.75	981.00	1071.48	0.00	0	\$ -	
		March	1	41	40.97	\$ 85.00	\$ 1.2497	506.00	613.52	582.00	859.75	0.00	0	\$ -	
		April	1	18	18.32	\$ 85.00	\$ 1.2497	251.00	310.18	506.00	613.52	0.00	0	\$ -	
		May	1	0	0.00	\$ 85.00	\$ 1.2497	87.00	98.82	251.00	310.18	0.00	0	\$ -	
		June	1	9	9.33	\$ 85.00	\$ 1.2497	0.00	5.50	87.00	98.82	0.00	0	\$ -	
		July	1	11	10.99	\$ 85.00	\$ 1.2497	0.00	0.18	0.00	5.50	0.00	0	\$ -	
		August	1	9	9.16	\$ 85.00	\$ 1.2497	0.00	1.12	0.00	0.18	0.00	0	\$ -	
		September	1	9	9.16	\$ 85.00	\$ 1.2497	13.50	55.20	0.00	1.12	0.00	0	\$ -	
		October	1	13	13.32	\$ 85.00	\$ 1.2497	246.50	277.72	13.50	55.20	0.00	0	\$ -	
		November	1	29	28.81	\$ 85.00	\$ 1.2497	577.00	621.00	246.50	277.72	0.00	0	\$ -	
		December	0	0	0.00	\$ 85.00	\$ 1.2497	997.00	993.28	577.00	621.00	0.00	0	\$ -	
		Total	1	354									0	\$ -	
KICT-20									0.000000		2.039709				
	SSR	January	7	18,789	2,684.20	\$ 85.00	\$ 1.2497	880.00	986.32	994.50	936.50	(118.30)	(828)	\$ (1,035)	
		February	6	16,872	2,811.97	\$ 85.00	\$ 1.2497	539.00	780.47	880.00	986.32	216.86	1,301	\$ 1,626	
		March	6	6,125	1,020.76	\$ 85.00	\$ 1.2497	435.50	557.42	539.00	780.47	492.52	2,955	\$ 3,693	
		April	6	2,890	481.74	\$ 85.00	\$ 1.2497	241.50	276.18	435.50	557.42	248.67	1,492	\$ 1,865	
		May	6	1,893	315.46	\$ 85.00	\$ 1.2497	79.00	80.08	241.50	276.18	70.74	424	\$ 530	
		June	6	711	118.46	\$ 85.00	\$ 1.2497	0.00	3.53	79.00	80.08	2.21	13	\$ 17	
		July	6	487	81.12	\$ 85.00	\$ 1.2497	0.00	0.10	0.00	3.53	7.21	43	\$ 54	
		August	6	436	72.71	\$ 85.00	\$ 1.2497	0.00	0.12	0.00	0.10	0.20	1	\$ 2	
		September	6	418	69.69	\$ 85.00	\$ 1.2497	7.00	32.20	0.00	0.12	0.24	1	\$ 2	
		October	6	579	96.56	\$ 85.00	\$ 1.2497	221.50	224.27	7.00	32.20	51.40	308	\$ 385	
		November	6	4,282	713.73	\$ 85.00	\$ 1.2497	514.50	567.38	221.50	224.27	5.64	34	\$ 42	
		December	6	8,305	1,384.20	\$ 85.00	\$ 1.2497	877.00	936.50	514.50	567.38	107.87	647	\$ 809	
		Total	6	61,788									6,393	\$ 7,990	
Class Total			7	62,141									6,393	\$ 7,990	

Exhibit DLP – 2
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Staff Adjustment IS-11

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Count	Usage	Weather Normalization												Volumetric Adj. per capita	Volumetric Adjustment	Revenue Adjustment
					Avg Usage	Basic Service	Commodity Rate	Current Month HDD		Previous Month HDD		Current Month CDD		Previous Month CDD					
								Actual	Normal	Actual	Normal	Actual	Normal	Actual	Normal				
KMCI-09	WTt	January	0	0	0.00	\$ 85.00	\$ 1.2497	1014.00	0.000000	1081.50	1008.83	0.00	0.00	0.00	0.00	0	0	\$ -	
		February	0	0	0.00	\$ 85.00	\$ 1.2497	598.50	888.65	1014.00	1099.95	0.00	0.00	0.00	0.00	0	0	\$ -	
		March	0	0	0.00	\$ 85.00	\$ 1.2497	530.50	634.35	598.50	888.65	5.00	4.30	0.00	0.00	0	0	\$ -	
		April	0	0	0.00	\$ 85.00	\$ 1.2497	264.50	320.52	530.50	634.35	25.50	22.70	5.00	4.30	0	0	\$ -	
		May	0	0	0.00	\$ 85.00	\$ 1.2497	111.00	106.87	264.50	320.52	73.50	94.57	25.50	22.70	0	0	\$ -	
		June	0	0	0.00	\$ 85.00	\$ 1.2497	2.00	7.12	111.00	106.87	291.00	280.97	73.50	94.57	0	0	\$ -	
		July	0	0	0.00	\$ 85.00	\$ 1.2497	0.00	0.45	2.00	7.12	437.50	414.45	291.00	280.97	0	0	\$ -	
		August	0	0	0.00	\$ 85.00	\$ 1.2497	4.00	1.18	0.00	0.45	215.00	375.20	437.50	414.45	0	0	\$ -	
		September	0	0	0.00	\$ 85.00	\$ 1.2497	17.50	57.57	4.00	1.18	200.50	158.17	215.00	375.20	0	0	\$ -	
		October	0	0	0.00	\$ 85.00	\$ 1.2497	267.00	284.92	17.50	57.57	40.00	30.40	200.50	158.17	0	0	\$ -	
		November	0	0	0.00	\$ 85.00	\$ 1.2497	605.50	626.33	267.00	284.92	0.00	1.40	40.00	30.40	0	0	\$ -	
		December	0	0	0.00	\$ 85.00	\$ 1.2497	1020.50	1008.83	605.50	626.33	0.00	0.00	0.00	1.40	0	0	\$ -	
		Total	0	0												0	0	\$ -	
		KTOP-19	WTt	January	13	132,426	10,186.62	\$ 85.00	\$ 1.2497	981.00	9.571388	1067.50	993.28	0.00	0.000000	0.00	0.000000	799	10,385
February	13			78,992	6,076.31	\$ 85.00	\$ 1.2497	582.00	859.75	981.00	1071.48	0.00	0.00	0.00	0.00	2,740	35,625	\$ 44,520	
March	13			67,695	5,207.31	\$ 85.00	\$ 1.2497	506.00	613.52	582.00	859.75	8.50	4.93	0.00	0.00	1,281	16,647	\$ 20,804	
April	13			34,341	2,641.62	\$ 85.00	\$ 1.2497	251.00	310.18	506.00	613.52	27.50	24.00	8.50	4.93	664	8,630	\$ 10,784	
May	13			15,392	1,184.00	\$ 85.00	\$ 1.2497	87.00	98.82	251.00	310.18	89.00	108.20	27.50	24.00	167	2,167	\$ 2,708	
June	13			12,340	949.23	\$ 85.00	\$ 1.2497	0.00	5.50	87.00	98.82	315.50	305.73	89.00	108.20	63	823	\$ 1,029	
July	13			15,272	1,174.77	\$ 85.00	\$ 1.2497	0.00	0.18	0.00	5.50	478.50	446.40	315.50	305.73	7	88	\$ 109	
August	13			11,421	878.54	\$ 85.00	\$ 1.2497	0.00	1.12	0.00	0.18	246.50	396.47	478.50	446.40	11	141	\$ 176	
September	13			9,338	718.31	\$ 85.00	\$ 1.2497	13.50	55.20	0.00	1.12	221.00	169.12	246.50	396.47	400	5,202	\$ 6,501	
October	13			28,514	2,193.38	\$ 85.00	\$ 1.2497	246.50	277.72	13.50	55.20	51.00	33.12	221.00	169.12	337	4,375	\$ 5,468	
November	13			69,239	5,326.08	\$ 85.00	\$ 1.2497	577.00	621.00	246.50	277.72	0.00	1.40	51.00	33.12	449	5,842	\$ 7,301	
December	13			124,590	9,583.85	\$ 85.00	\$ 1.2497	997.00	993.28	577.00	621.00	0.00	0.00	0.00	1.40	4	55	\$ 69	
Total	13			599,560												577	89,980	\$ 112,449	
KICT-20	WTt			January	14	38,499	2,749.93	\$ 85.00	\$ 1.2497	880.00	2.521382	994.50	936.50	0.00	0.341196	0.00	0.000000	258	3,612
		February	14	24,042	1,717.29	\$ 85.00	\$ 1.2497	539.00	780.47	880.00	986.32	0.00	0.00	0.00	0.00	627	8,783	\$ 10,976	
		March	14	21,405	1,528.93	\$ 85.00	\$ 1.2497	435.50	557.42	539.00	780.47	17.00	4.13	0.00	0.00	345	4,892	\$ 6,113	
		April	14	13,232	945.14	\$ 85.00	\$ 1.2497	241.50	276.18	435.50	557.42	24.50	23.87	17.00	4.13	108	1,521	\$ 1,901	
		May	14	8,219	587.07	\$ 85.00	\$ 1.2497	79.00	80.08	241.50	276.18	106.00	125.58	24.50	23.87	15	123	\$ 153	
		June	14	6,490	463.57	\$ 85.00	\$ 1.2497	0.00	3.53	79.00	80.08	363.00	353.70	106.00	125.58	6	127	\$ 159	
		July	14	6,994	499.57	\$ 85.00	\$ 1.2497	0.00	0.10	0.00	3.53	541.50	508.67	363.00	353.70	(10)	12	\$ 15	
		August	14	6,630	473.57	\$ 85.00	\$ 1.2497	0.00	0.12	0.00	0.10	354.00	463.48	541.50	508.67	38	4	\$ 5	
		September	14	6,111	436.50	\$ 85.00	\$ 1.2497	7.00	32.20	0.00	0.12	269.50	225.28	354.00	463.48	48	890	\$ 1,112	
		October	14	12,075	862.50	\$ 85.00	\$ 1.2497	221.50	224.27	7.00	32.20	65.50	45.18	269.50	225.28	4	159	\$ 199	
		November	14	22,042	1,574.43	\$ 85.00	\$ 1.2497	514.50	567.38	221.50	224.27	1.50	1.62	65.50	45.18	134	1,873	\$ 2,341	
		December	14	37,235	2,659.64	\$ 85.00	\$ 1.2497	877.00	936.50	514.50	567.38	0.00	0.00	1.50	1.62	159	2,229	\$ 2,786	
		Total	14	202,974												144	24,225	\$ 30,274	
		Class Total			27	802,534												114,206	\$ 142,723

EXHIBIT DLP – 3
18-KGSG-560-RTS
STAFF ADJUSTMENT IS-12

Customer Annualization		
	Customer Classification	Staff Revenue Adjustment
RS	Residential	\$ 298,382
GSS	General Service - Small	\$ 4,807
GSL	General Service - Large	\$ (75,049)
GSTE	General Service - TE	\$ (62,216)
SGS	Small Generator Service	\$ 4,244
GIS	Irrigation Sales	\$ (3,356)
KGSSD	Kansas Gas Supply	\$ -
SSR	Sales for Resale	\$ 715
SSR-BH	Sales for Resale - BH	\$ -
STk	Small Transport k-System	\$ 105,969
STt	Small Transport t-System	\$ 74,902
CNGk	CNG k-System	\$ 7,194
CNGt	CNG t-System	\$ 9,703
GIT	Irrigation Transport	\$ (462)
LVTk-T1	Large Transport k - Tier 1	\$ 20,593
LVTk-T2	Large Transport k - Tier 2	\$ (39,363)
LVTk-T3	Large Transport k - Tier 3	\$ (96,761)
LVTk-T4	Large Transport k - Tier 4	\$ 21,881
LVTt-T1	Large Transport t - Tier 1	\$ 22,965
LVTt-T2	Large Transport t - Tier 2	\$ (14,460)
LVTt-T3	Large Transport t - Tier 3	\$ (67,295)
LVTt-T4	Large Transport t - Tier 4	\$ 63,680
WTt	Wholesale Transport	\$ -
	Staff Customer Annualization Total	\$ 276,072
	KGS Customer Annualization Total	\$ 307,009
	Staff Adjustment IS-12 (Difference)	\$ (30,937)

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	Adjustment
KMCI-09	RS	January	82.24	193,356	905	16,618	\$	52,192
		February	82.24	193,907	822	11,837	\$	40,149
		March	82.24	193,771	740	7,918	\$	30,030
		April	82.24	193,073	658	4,153	\$	20,256
		May	82.24	192,891	576	1,842	\$	13,725
		June	82.24	191,495	493	857	\$	10,154
		July	82.24	190,818	411	589	\$	8,182
		August	82.24	190,097	329	415	\$	6,420
		September	82.24	190,005	247	439	\$	5,100
		October	82.24	189,882	164	358	\$	3,545
		November	82.24	191,126	82	606	\$	2,725
		December	82.24	191,747	0	0	\$	-
		Total	82.24	191,847		45,632	\$	192,479
KTOP-19	RS	January	18.11	106,921	199	2,779	\$	9,527
		February	18.11	107,085	181	2,089	\$	7,685
		March	18.11	106,849	163	1,444	\$	5,945
		April	18.11	105,852	145	836	\$	4,284
		May	18.11	106,663	127	394	\$	2,996
		June	18.11	105,063	109	179	\$	2,214
		July	18.11	105,174	91	118	\$	1,775
		August	18.11	103,959	72	81	\$	1,391
		September	18.11	104,274	54	78	\$	1,081
		October	18.11	103,774	36	66	\$	753
		November	18.11	104,613	18	99	\$	523
		December	18.11	104,556	0	0	\$	-
		Total	18.11	105,398		8,163	\$	38,175
KICT-20	RS	January	31.79	288,457	350	5,094	\$	17,209
		February	31.79	288,990	318	3,793	\$	13,774
		March	31.79	289,909	286	2,594	\$	10,568
		April	31.79	287,762	254	1,421	\$	7,419
		May	31.79	287,519	223	680	\$	5,233
		June	31.79	284,993	191	300	\$	3,855
		July	31.79	283,674	159	202	\$	3,105
		August	31.79	282,183	127	148	\$	2,453
		September	31.79	282,850	95	134	\$	1,892
		October	31.79	282,010	64	105	\$	1,297
		November	31.79	284,348	32	176	\$	924
		December	31.79	286,947	0	0	\$	-
		Total	31.79	285,804		14,647	\$	67,729
Class Total			132.14	583,049		68,442	\$	298,382

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	GSS	January	1.47	10,257	16	423	\$	1,455
		February	1.47	10,303	15	300	\$	1,123
		March	1.47	10,278	13	195	\$	835
		April	1.47	10,222	12	94	\$	557
		May	1.47	10,202	10	40	\$	387
		June	1.47	10,113	9	17	\$	291
		July	1.47	9,970	7	12	\$	238
		August	1.47	10,046	6	8	\$	187
		September	1.47	10,003	4	9	\$	146
		October	1.47	10,002	3	8	\$	102
		November	1.47	10,049	1	13	\$	72
		December	1.47	10,078	0	0	\$	-
		Total	1.47	10,127		1,117	\$	5,393
KTOP-19	GSS	January	1.89	6,622	21	484	\$	1,732
		February	1.89	6,649	19	394	\$	1,465
		March	1.89	6,581	17	248	\$	1,068
		April	1.89	6,549	15	107	\$	684
		May	1.89	6,535	13	48	\$	493
		June	1.89	6,535	11	20	\$	371
		July	1.89	6,462	9	13	\$	300
		August	1.89	6,489	8	9	\$	238
		September	1.89	6,455	6	10	\$	185
		October	1.89	6,338	4	9	\$	128
		November	1.89	6,425	2	16	\$	92
		December	1.89	6,456	0	0	\$	-
		Total	1.89	6,508		1,357	\$	6,757
KICT-20	GSS	January	(2.02)	20,428	(22)	(552)	\$	(1,932)
		February	(2.02)	20,522	(20)	(407)	\$	(1,536)
		March	(2.02)	20,413	(18)	(279)	\$	(1,177)
		April	(2.02)	20,557	(16)	(137)	\$	(785)
		May	(2.02)	20,367	(14)	(51)	\$	(526)
		June	(2.02)	20,226	(12)	(19)	\$	(392)
		July	(2.02)	20,052	(10)	(14)	\$	(323)
		August	(2.02)	20,124	(8)	(9)	\$	(254)
		September	(2.02)	20,070	(6)	(9)	\$	(195)
		October	(2.02)	20,041	(4)	(7)	\$	(133)
		November	(2.02)	20,028	(2)	(13)	\$	(89)
		December	(2.02)	20,303	0	0	\$	-
		Total	(2.02)	20,261		(1,499)	\$	(7,342)
Class Total			1.33	36,896		975	\$	4,807

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	GSL	January	(1.69)	3,493	(19)	(2,102)	\$	(4,412)
		February	(1.69)	3,548	(17)	(1,551)	\$	(3,369)
		March	(1.69)	3,521	(15)	(1,073)	\$	(2,458)
		April	(1.69)	3,502	(14)	(570)	\$	(1,502)
		May	(1.69)	3,500	(12)	(290)	\$	(943)
		June	(1.69)	3,497	(10)	(161)	\$	(651)
		July	(1.69)	3,494	(8)	(121)	\$	(520)
		August	(1.69)	3,476	(7)	(88)	\$	(400)
		September	(1.69)	3,453	(5)	(81)	\$	(327)
		October	(1.69)	3,474	(3)	(61)	\$	(230)
		November	(1.69)	3,486	(2)	(74)	\$	(193)
		December	(1.69)	3,465	0	0	\$	-
		Total	(1.69)	3,492		(6,172)	\$	(15,004)
KTOP-19	GSL	January	(2.24)	2,135	(25)	(2,599)	\$	(5,514)
		February	(2.24)	2,158	(22)	(1,964)	\$	(4,304)
		March	(2.24)	2,140	(20)	(1,363)	\$	(3,152)
		April	(2.24)	2,118	(18)	(714)	\$	(1,916)
		May	(2.24)	2,127	(16)	(379)	\$	(1,238)
		June	(2.24)	2,126	(13)	(209)	\$	(856)
		July	(2.24)	2,095	(11)	(135)	\$	(643)
		August	(2.24)	2,121	(9)	(102)	\$	(504)
		September	(2.24)	2,114	(7)	(92)	\$	(405)
		October	(2.24)	2,076	(4)	(72)	\$	(289)
		November	(2.24)	2,123	(2)	(90)	\$	(241)
		December	(2.24)	2,077	0	0	\$	-
		Total	(2.24)	2,117		(7,720)	\$	(19,063)
KICT-20	GSL	January	(5.04)	6,051	(55)	(5,658)	\$	(12,074)
		February	(5.04)	6,059	(50)	(4,063)	\$	(9,052)
		March	(5.04)	6,029	(45)	(2,820)	\$	(6,657)
		April	(5.04)	6,134	(40)	(1,602)	\$	(4,306)
		May	(5.04)	6,049	(35)	(741)	\$	(2,592)
		June	(5.04)	6,023	(30)	(381)	\$	(1,768)
		July	(5.04)	5,909	(25)	(331)	\$	(1,497)
		August	(5.04)	5,990	(20)	(208)	\$	(1,097)
		September	(5.04)	5,965	(15)	(172)	\$	(851)
		October	(5.04)	5,970	(10)	(133)	\$	(600)
		November	(5.04)	5,933	(5)	(172)	\$	(487)
		December	(5.04)	6,022	0	0	\$	-
		Total	(5.04)	6,011		(16,282)	\$	(40,982)
Class Total			(8.97)	11,621		(30,173)	\$	(75,049)

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	Adjustment
KMCI-09	GSTE	January	(0.39)	207	(4)	(1,920)	\$	(3,195)
		February	(0.39)	212	(4)	(1,476)	\$	(2,492)
		March	(0.39)	211	(4)	(1,136)	\$	(1,949)
		April	(0.39)	214	(3)	(621)	\$	(1,137)
		May	(0.39)	211	(3)	(298)	\$	(621)
		June	(0.39)	213	(2)	(227)	\$	(488)
		July	(0.39)	214	(2)	(121)	\$	(302)
		August	(0.39)	211	(2)	(86)	\$	(226)
		September	(0.39)	209	(1)	(95)	\$	(215)
		October	(0.39)	207	(1)	(78)	\$	(166)
		November	(0.39)	210	(0)	(83)	\$	(150)
		December	(0.39)	211	0	0	\$	-
		Total	(0.39)	211		(6,142)	\$	(10,941)
KTOP-19	GSTE	January	(1.10)	76	(12)	(5,935)	\$	(9,803)
		February	(1.10)	74	(11)	(5,914)	\$	(9,704)
		March	(1.10)	77	(10)	(3,761)	\$	(6,346)
		April	(1.10)	78	(9)	(1,745)	\$	(3,197)
		May	(1.10)	75	(8)	(977)	\$	(1,956)
		June	(1.10)	77	(7)	(481)	\$	(1,131)
		July	(1.10)	71	(6)	(292)	\$	(776)
		August	(1.10)	74	(4)	(261)	\$	(664)
		September	(1.10)	72	(3)	(228)	\$	(546)
		October	(1.10)	72	(2)	(202)	\$	(441)
		November	(1.10)	80	(1)	(232)	\$	(422)
		December	(1.10)	75	0	0	\$	-
		Total	(1.10)	75		(20,028)	\$	(34,988)
KICT-20	GSTE	January	(0.67)	221	(7)	(2,659)	\$	(4,510)
		February	(0.67)	219	(7)	(2,207)	\$	(3,779)
		March	(0.67)	214	(6)	(1,538)	\$	(2,715)
		April	(0.67)	226	(5)	(967)	\$	(1,802)
		May	(0.67)	228	(5)	(642)	\$	(1,264)
		June	(0.67)	218	(4)	(278)	\$	(667)
		July	(0.67)	215	(3)	(186)	\$	(486)
		August	(0.67)	203	(3)	(132)	\$	(363)
		September	(0.67)	207	(2)	(113)	\$	(295)
		October	(0.67)	206	(1)	(86)	\$	(212)
		November	(0.67)	200	(1)	(100)	\$	(193)
		December	(0.67)	209	0	0	\$	-
		Total	(0.67)	214		(8,907)	\$	(16,288)
Class Total			(2.17)	500		(35,077)	\$	(62,216)

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	STk	January	0.80	1,466	9	2,814	\$ 4,638
		February	0.80	1,461	8	2,028	\$ 3,444
		March	0.80	1,471	7	1,363	\$ 2,423
		April	0.80	1,493	6	727	\$ 1,447
		May	0.80	1,468	6	412	\$ 939
		June	0.80	1,482	5	263	\$ 674
		July	0.80	1,491	4	206	\$ 542
		August	0.80	1,502	3	176	\$ 451
		September	0.80	1,503	2	156	\$ 372
		October	0.80	1,505	2	160	\$ 330
		November	0.80	1,550	1	132	\$ 241
		December	0.80	1,486	0	0	\$ -
		Total	0.80	1,490		8,437	\$ 15,501
KTOP-19	STk	January	1.49	630	16	5,087	\$ 8,411
		February	1.49	627	15	3,784	\$ 6,420
		March	1.49	634	13	2,602	\$ 4,604
		April	1.49	637	12	1,409	\$ 2,773
		May	1.49	636	10	751	\$ 1,723
		June	1.49	639	9	446	\$ 1,188
		July	1.49	638	7	330	\$ 929
		August	1.49	646	6	297	\$ 792
		September	1.49	643	4	271	\$ 665
		October	1.49	647	3	286	\$ 597
		November	1.49	647	1	248	\$ 451
		December	1.49	645	0	0	\$ -
		Total	1.49	639		15,511	\$ 28,553
KICT-20	STk	January	2.92	1,323	32	11,390	\$ 18,556
		February	2.92	1,324	29	7,907	\$ 13,296
		March	2.92	1,332	26	6,429	\$ 10,962
		April	2.92	1,344	23	3,032	\$ 5,829
		May	2.92	1,360	20	1,704	\$ 3,715
		June	2.92	1,378	18	1,061	\$ 2,601
		July	2.92	1,388	15	741	\$ 1,958
		August	2.92	1,392	12	630	\$ 1,620
		September	2.92	1,397	9	528	\$ 1,297
		October	2.92	1,371	6	549	\$ 1,152
		November	2.92	1,402	3	517	\$ 930
		December	2.92	1,408	0	0	\$ -
		Total	2.92	1,368		34,489	\$ 61,916
Class Total			5.22	3,497		58,436	\$ 105,969

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	Adjustment
KMCI-09	STt	January	0.00	2	0	0	\$	-
		February	0.00	2	0	0	\$	-
		March	0.00	2	0	0	\$	-
		April	0.00	2	0	0	\$	-
		May	0.00	2	0	0	\$	-
		June	0.00	2	0	0	\$	-
		July	0.00	2	0	0	\$	-
		August	0.00	2	0	0	\$	-
		September	0.00	2	0	0	\$	-
		October	0.00	2	0	0	\$	-
		November	0.00	2	0	0	\$	-
		December	0.00	2	0	0	\$	-
		Total	0.00	2		0	\$	-
KTOP-19	STt	January	1.33	277	15	4,436	\$	9,379
		February	1.33	276	13	3,323	\$	7,167
		March	1.33	276	12	2,295	\$	5,115
		April	1.33	282	11	1,314	\$	3,156
		May	1.33	282	9	720	\$	1,937
		June	1.33	282	8	439	\$	1,319
		July	1.33	288	7	345	\$	1,059
		August	1.33	287	5	279	\$	854
		September	1.33	287	4	249	\$	716
		October	1.33	286	3	252	\$	643
		November	1.33	288	1	211	\$	484
		December	1.33	285	0	0	\$	-
		Total	1.33	283		13,863	\$	31,830
KICT-20	STt	January	1.98	908	22	6,288	\$	13,359
		February	1.98	905	20	4,437	\$	9,692
		March	1.98	908	18	3,080	\$	6,971
		April	1.98	909	16	1,636	\$	4,084
		May	1.98	914	14	842	\$	2,445
		June	1.98	921	12	483	\$	1,637
		July	1.98	932	10	380	\$	1,322
		August	1.98	938	8	338	\$	1,123
		September	1.98	939	6	287	\$	906
		October	1.98	939	4	295	\$	803
		November	1.98	949	2	319	\$	731
		December	1.98	955	0	0	\$	-
		Total	1.98	926		18,387	\$	43,073
Class Total			3.30	1,211		32,249	\$	74,902

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	LVTk-T1	January	0.33	87	4	4,578	\$	4,736
		February	0.33	84	3	3,091	\$	3,373
		March	0.33	85	3	2,030	\$	2,381
		April	0.33	85	3	903	\$	1,331
		May	0.33	86	2	348	\$	779
		June	0.33	86	2	203	\$	585
		July	0.33	86	2	153	\$	473
		August	0.33	85	1	147	\$	400
		September	0.33	86	1	154	\$	338
		October	0.33	86	1	180	\$	293
		November	0.33	82	0	189	\$	233
		December	0.33	82	0	0	\$	-
		Total	0.33	85		11,976	\$	14,921
KTOP-19	LVTk-T1	January	0.32	50	4	3,402	\$	3,703
		February	0.32	49	3	2,421	\$	2,781
		March	0.32	49	3	1,580	\$	1,981
		April	0.32	48	3	824	\$	1,256
		May	0.32	47	2	396	\$	815
		June	0.32	47	2	215	\$	590
		July	0.32	47	2	145	\$	462
		August	0.32	46	1	163	\$	410
		September	0.32	46	1	160	\$	341
		October	0.32	47	1	188	\$	298
		November	0.32	45	0	169	\$	215
		December	0.32	45	0	0	\$	-
		Total	0.32	47		9,661	\$	12,852
KICT-20	LVTk-T1	January	(0.17)	80	(2)	(1,906)	\$	(2,052)
		February	(0.17)	80	(2)	(1,327)	\$	(1,512)
		March	(0.17)	78	(2)	(897)	\$	(1,102)
		April	(0.17)	79	(1)	(456)	\$	(682)
		May	(0.17)	84	(1)	(243)	\$	(461)
		June	(0.17)	84	(1)	(175)	\$	(366)
		July	(0.17)	84	(1)	(126)	\$	(288)
		August	(0.17)	84	(1)	(129)	\$	(255)
		September	(0.17)	84	(1)	(102)	\$	(196)
		October	(0.17)	84	(0)	(90)	\$	(149)
		November	(0.17)	81	(0)	(91)	\$	(115)
		December	(0.17)	81	0	0	\$	-
		Total	(0.17)	82		(5,542)	\$	(7,180)
Class Total			0.48	214		16,095	\$	20,593

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	LVTK-T2	January	(0.35)	33	(4)	(9,991)	\$	(9,669)
		February	(0.35)	33	(3)	(7,156)	\$	(7,111)
		March	(0.35)	34	(3)	(5,162)	\$	(5,286)
		April	(0.35)	34	(3)	(3,079)	\$	(3,384)
		May	(0.35)	32	(2)	(1,949)	\$	(2,311)
		June	(0.35)	32	(2)	(1,401)	\$	(1,746)
		July	(0.35)	32	(2)	(1,003)	\$	(1,312)
		August	(0.35)	33	(1)	(850)	\$	(1,091)
		September	(0.35)	33	(1)	(780)	\$	(942)
		October	(0.35)	33	(1)	(705)	\$	(789)
		November	(0.35)	34	(0)	(552)	\$	(568)
		December	(0.35)	34	0	0	\$	-
		Total	(0.35)	33		(32,629)	\$	(34,210)
KTOP-19	LVTK-T2	January	(0.11)	16	(1)	(3,242)	\$	(3,133)
		February	(0.11)	16	(1)	(2,344)	\$	(2,323)
		March	(0.11)	16	(1)	(1,603)	\$	(1,649)
		April	(0.11)	16	(1)	(859)	\$	(972)
		May	(0.11)	16	(1)	(484)	\$	(618)
		June	(0.11)	16	(1)	(308)	\$	(436)
		July	(0.11)	16	(1)	(234)	\$	(344)
		August	(0.11)	17	(0)	(224)	\$	(307)
		September	(0.11)	17	(0)	(192)	\$	(251)
		October	(0.11)	17	(0)	(201)	\$	(231)
		November	(0.11)	17	(0)	(171)	\$	(177)
		December	(0.11)	17	0	0	\$	-
		Total	(0.11)	16		(9,863)	\$	(10,442)
KICT-20	LVTK-T2	January	0.05	45	1	1,428	\$	1,392
		February	0.05	46	1	1,088	\$	1,082
		March	0.05	46	0	815	\$	830
		April	0.05	46	0	511	\$	552
		May	0.05	43	0	355	\$	403
		June	0.05	43	0	219	\$	271
		July	0.05	43	0	160	\$	207
		August	0.05	43	0	147	\$	181
		September	0.05	43	0	115	\$	140
		October	0.05	43	0	129	\$	140
		November	0.05	43	0	89	\$	91
		December	0.05	43	0	0	\$	-
		Total	0.05	44		5,055	\$	5,289
Class Total			(0.41)	94		(37,436)	\$	(39,363)

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Weather Normalization							
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization	Annualized Customer	Change in Customers	Volumetric Adjustment	Revenue Adjustment
KMCI-09	LVTk-T3	January	(0.20)	18	(2)	(7,969)	\$ (7,647)
		February	(0.20)	18	(2)	(6,292)	\$ (6,122)
		March	(0.20)	18	(2)	(5,634)	\$ (5,485)
		April	(0.20)	18	(2)	(3,723)	\$ (3,756)
		May	(0.20)	20	(1)	(2,481)	\$ (2,610)
		June	(0.20)	19	(1)	(2,363)	\$ (2,443)
		July	(0.20)	19	(1)	(1,930)	\$ (2,001)
		August	(0.20)	19	(1)	(1,318)	\$ (1,404)
		September	(0.20)	19	(1)	(925)	\$ (998)
		October	(0.20)	21	(0)	(877)	\$ (892)
		November	(0.20)	22	(0)	(562)	\$ (554)
		December	(0.20)	22	0	0	\$ -
		Total	(0.20)	19		(34,075)	\$ (33,912)
KTOP-19	LVTk-T3	January	(0.11)	5	(1)	(3,485)	\$ (3,431)
		February	(0.11)	5	(1)	(2,869)	\$ (2,859)
		March	(0.11)	5	(1)	(2,555)	\$ (2,549)
		April	(0.11)	5	(1)	(1,963)	\$ (1,998)
		May	(0.11)	5	(1)	(1,727)	\$ (1,756)
		June	(0.11)	5	(1)	(1,132)	\$ (1,201)
		July	(0.11)	5	(1)	(869)	\$ (937)
		August	(0.11)	6	(0)	(817)	\$ (855)
		September	(0.11)	6	(0)	(625)	\$ (652)
		October	(0.11)	6	(0)	(524)	\$ (528)
		November	(0.11)	6	(0)	(275)	\$ (275)
		December	(0.11)	6	0	0	\$ -
		Total	(0.11)	5		(16,840)	\$ (17,043)
KICT-20	LVTk-T3	January	(0.25)	19	(3)	(11,214)	\$ (10,678)
		February	(0.25)	19	(3)	(8,735)	\$ (8,436)
		March	(0.25)	19	(2)	(7,067)	\$ (6,899)
		April	(0.25)	20	(2)	(5,129)	\$ (5,128)
		May	(0.25)	19	(2)	(3,745)	\$ (3,840)
		June	(0.25)	19	(2)	(2,722)	\$ (2,866)
		July	(0.25)	20	(1)	(2,198)	\$ (2,327)
		August	(0.25)	20	(1)	(1,921)	\$ (2,003)
		September	(0.25)	20	(1)	(1,396)	\$ (1,464)
		October	(0.25)	20	(1)	(1,350)	\$ (1,341)
		November	(0.25)	21	(0)	(852)	\$ (825)
		December	(0.25)	21	0	0	\$ -
		Total	(0.25)	20		(46,329)	\$ (45,806)
Class Total			(0.56)	45		(97,244)	\$ (96,761)

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	LVTk-T4	January	0.04	21	0	4,929	\$	4,475
		February	0.04	21	0	3,959	\$	3,614
		March	0.04	21	0	3,524	\$	3,218
		April	0.04	21	0	2,528	\$	2,333
		May	0.04	21	0	2,162	\$	1,998
		June	0.04	21	0	1,687	\$	1,568
		July	0.04	21	0	1,347	\$	1,256
		August	0.04	21	0	1,147	\$	1,065
		September	0.04	21	0	819	\$	763
		October	0.04	21	0	654	\$	603
		November	0.04	21	0	368	\$	337
		December	0.04	21	0	0	\$	-
		Total	0.04	21		23,125	\$	21,229
KTOP-19	LVTk-T4	January	0.10	23	1	14,724	\$	13,257
		February	0.10	24	1	11,383	\$	10,307
		March	0.10	24	1	9,760	\$	8,854
		April	0.10	23	1	7,025	\$	6,433
		May	0.10	23	1	5,720	\$	5,256
		June	0.10	23	1	4,670	\$	4,303
		July	0.10	22	0	3,625	\$	3,353
		August	0.10	22	0	3,176	\$	2,923
		September	0.10	22	0	2,327	\$	2,144
		October	0.10	22	0	1,830	\$	1,673
		November	0.10	22	0	1,099	\$	997
		December	0.10	23	0	0	\$	-
		Total	0.10	23		65,339	\$	59,499
KICT-20	LVTk-T4	January	(0.09)	17	(1)	(13,399)	\$	(12,067)
		February	(0.09)	17	(1)	(10,963)	\$	(9,909)
		March	(0.09)	17	(1)	(9,733)	\$	(8,802)
		April	(0.09)	17	(1)	(7,521)	\$	(6,839)
		May	(0.09)	16	(1)	(6,558)	\$	(5,963)
		June	(0.09)	16	(1)	(4,842)	\$	(4,433)
		July	(0.09)	17	(0)	(3,767)	\$	(3,460)
		August	(0.09)	17	(0)	(2,567)	\$	(2,380)
		September	(0.09)	17	(0)	(2,482)	\$	(2,269)
		October	(0.09)	17	(0)	(1,939)	\$	(1,761)
		November	(0.09)	17	(0)	(1,066)	\$	(964)
		December	(0.09)	17	0	0	\$	-
		Total	(0.09)	17		(64,838)	\$	(58,848)
Class Total			0.05	61		23,626	\$	21,881

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Weather Normalization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	LVTt-T1	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total	0.00	0		0	\$ -
KTOP-19	LVTt-T1	January	0.10	11	1	1,843	\$ 2,723
		February	0.10	11	1	1,314	\$ 2,002
		March	0.10	11	1	759	\$ 1,247
		April	0.10	11	1	334	\$ 662
		May	0.10	13	1	160	\$ 406
		June	0.10	13	1	78	\$ 270
		July	0.10	12	0	59	\$ 217
		August	0.10	12	0	46	\$ 172
		September	0.10	12	0	54	\$ 155
		October	0.10	12	0	74	\$ 153
		November	0.10	11	0	75	\$ 127
		December	0.10	11	0	0	\$ -
		Total	0.10	12		4,797	\$ 8,133
KICT-20	LVTt-T1	January	0.20	36	2	3,009	\$ 4,575
		February	0.20	35	2	2,183	\$ 3,435
		March	0.20	35	2	1,431	\$ 2,392
		April	0.20	35	2	674	\$ 1,343
		May	0.20	31	1	259	\$ 741
		June	0.20	31	1	148	\$ 538
		July	0.20	31	1	152	\$ 486
		August	0.20	31	1	93	\$ 352
		September	0.20	31	1	141	\$ 357
		October	0.20	30	0	181	\$ 352
		November	0.20	26	0	154	\$ 259
		December	0.20	26	0	0	\$ -
		Total	0.20	31		8,425	\$ 14,831
Class Total			0.30	43		13,222	\$ 22,965

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	LVTt-T2	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KTOP-19	LVTt-T2	January	0.07	10	1	2,652	\$	3,743
		February	0.07	9	1	1,975	\$	2,832
		March	0.07	9	1	1,428	\$	2,091
		April	0.07	9	1	687	\$	1,096
		May	0.07	9	0	299	\$	563
		June	0.07	9	0	168	\$	367
		July	0.07	9	0	118	\$	277
		August	0.07	9	0	103	\$	233
		September	0.07	9	0	94	\$	196
		October	0.07	9	0	122	\$	208
		November	0.07	9	0	120	\$	181
		December	0.07	9	0	0	\$	-
		Total	0.07	9		7,767	\$	11,786
KICT-20	LVTt-T2	January	(0.21)	18	(2)	(4,183)	\$	(6,315)
		February	(0.21)	18	(2)	(2,992)	\$	(4,679)
		March	(0.21)	18	(2)	(2,558)	\$	(4,034)
		April	(0.21)	18	(2)	(1,403)	\$	(2,445)
		May	(0.21)	22	(1)	(1,088)	\$	(1,956)
		June	(0.21)	23	(1)	(718)	\$	(1,396)
		July	(0.21)	23	(1)	(1,653)	\$	(2,545)
		August	(0.21)	23	(1)	(503)	\$	(963)
		September	(0.21)	23	(1)	(410)	\$	(765)
		October	(0.21)	23	(0)	(441)	\$	(730)
		November	(0.21)	24	(0)	(262)	\$	(419)
		December	(0.21)	24	0	0	\$	-
		Total	(0.21)	21		(16,211)	\$	(26,247)
Class Total			(0.14)	31		(8,445)	\$	(14,460)

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	LVTt-T3	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total	0.00	0		0	\$ -
KTOP-19	LVTt-T3	January	(0.21)	2	(2)	(7,389)	\$ (10,817)
		February	(0.21)	2	(2)	(6,591)	\$ (9,667)
		March	(0.21)	2	(2)	(5,165)	\$ (7,695)
		April	(0.21)	2	(2)	(3,689)	\$ (5,659)
		May	(0.21)	1	(1)	(3,517)	\$ (5,331)
		June	(0.21)	1	(1)	(2,741)	\$ (4,210)
		July	(0.21)	1	(1)	(2,254)	\$ (3,469)
		August	(0.21)	1	(1)	(1,896)	\$ (2,896)
		September	(0.21)	1	(1)	(1,369)	\$ (2,103)
		October	(0.21)	2	(0)	(1,065)	\$ (1,602)
		November	(0.21)	2	(0)	(503)	\$ (762)
		December	(0.21)	2	0	0	\$ -
		Total	(0.21)	2		(36,179)	\$ (54,212)
KICT-20	LVTt-T3	January	(0.05)	10	(1)	(1,583)	\$ (2,372)
		February	(0.05)	10	(1)	(1,196)	\$ (1,837)
		March	(0.05)	11	(0)	(1,203)	\$ (1,820)
		April	(0.05)	11	(0)	(1,088)	\$ (1,643)
		May	(0.05)	13	(0)	(1,063)	\$ (1,582)
		June	(0.05)	13	(0)	(849)	\$ (1,275)
		July	(0.05)	13	(0)	(462)	\$ (741)
		August	(0.05)	13	(0)	(500)	\$ (763)
		September	(0.05)	13	(0)	(294)	\$ (466)
		October	(0.05)	13	(0)	(253)	\$ (386)
		November	(0.05)	13	(0)	(130)	\$ (197)
		December	(0.05)	13	0	0	\$ -
		Total	(0.05)	12		(8,621)	\$ (13,083)
Class Total			(0.26)	14		(44,800)	\$ (67,295)

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Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	LVTt-T4	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KTOP-19	LVTt-T4	January	0.04	10	0	10,640	\$	14,226
		February	0.04	10	0	8,169	\$	10,962
		March	0.04	10	0	6,227	\$	8,392
		April	0.04	10	0	3,953	\$	5,387
		May	0.04	10	0	2,403	\$	3,330
		June	0.04	10	0	1,788	\$	2,498
		July	0.04	10	0	1,403	\$	1,968
		August	0.04	10	0	1,165	\$	1,630
		September	0.04	10	0	917	\$	1,280
		October	0.04	10	0	859	\$	1,177
		November	0.04	10	0	645	\$	871
		December	0.04	10	0	0	\$	-
		Total	0.04	10		38,169	\$	51,721
KICT-20	LVTt-T4	January	0.01	23	0	2,048	\$	2,778
		February	0.01	23	0	1,312	\$	1,806
		March	0.01	23	0	1,096	\$	1,514
		April	0.01	23	0	888	\$	1,232
		May	0.01	21	0	808	\$	1,119
		June	0.01	21	0	630	\$	878
		July	0.01	21	0	776	\$	1,060
		August	0.01	21	0	486	\$	671
		September	0.01	21	0	314	\$	437
		October	0.01	21	0	215	\$	300
		November	0.01	21	0	118	\$	164
		December	0.01	21	0	0	\$	-
		Total	0.01	22		8,693	\$	11,959
Class Total			0.06	32		46,862	\$	63,680

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	GIS	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total		0		0	\$ -
KTOP-19	GIS	January	0.02	10	0	0	\$ 10
		February	0.02	10	0	0	\$ 9
		March	0.02	10	0	0	\$ 8
		April	0.02	10	0	8	\$ 20
		May	0.02	10	0	0	\$ 6
		June	0.02	10	0	5	\$ 13
		July	0.02	10	0	23	\$ 43
		August	0.02	10	0	15	\$ 28
		September	0.02	10	0	7	\$ 14
		October	0.02	10	0	1	\$ 4
		November	0.02	10	0	(0)	\$ 1
		December	0.02	10	0	0	\$ -
		Total		10		59	\$ 155
KICT-20	GIS	January	(0.49)	202	(5)	(42)	\$ (264)
		February	(0.49)	204	(5)	(53)	\$ (264)
		March	(0.49)	202	(4)	(30)	\$ (209)
		April	(0.49)	206	(4)	(112)	\$ (329)
		May	(0.49)	204	(3)	(88)	\$ (271)
		June	(0.49)	205	(3)	(76)	\$ (233)
		July	(0.49)	188	(2)	(329)	\$ (641)
		August	(0.49)	219	(2)	(394)	\$ (734)
		September	(0.49)	203	(1)	(210)	\$ (406)
		October	(0.49)	205	(1)	(61)	\$ (137)
		November	(0.49)	206	(0)	(4)	\$ (25)
		December	(0.49)	201	0	0	\$ -
		Total		204		(1,398)	\$ (3,510)
Class Total			0.00	214		(1,339)	\$ (3,356)

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Customer Annualization							
Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization	Annualized Customer	Change in Customers	Volumetric Adjustment	Revenue Adjustment
KMCI-09	GIT	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total		0		0	\$ -
KTOP-19	GIT	January	0.00	1	0	0	\$ -
		February	0.00	1	0	0	\$ -
		March	0.00	1	0	0	\$ -
		April	0.00	1	0	0	\$ -
		May	0.00	1	0	0	\$ -
		June	0.00	1	0	0	\$ -
		July	0.00	1	0	0	\$ -
		August	0.00	1	0	0	\$ -
		September	0.00	1	0	0	\$ -
		October	0.00	1	0	0	\$ -
		November	0.00	1	0	0	\$ -
		December	0.00	1	0	0	\$ -
		Total		1		0	\$ -
KICT-20	GIT	January	(0.03)	512	(0)	(1)	\$ (14)
		February	(0.03)	510	(0)	(9)	\$ (26)
		March	(0.03)	510	(0)	(12)	\$ (29)
		April	(0.03)	511	(0)	(4)	\$ (16)
		May	(0.03)	512	(0)	(14)	\$ (30)
		June	(0.03)	513	(0)	(37)	\$ (69)
		July	(0.03)	513	(0)	(78)	\$ (137)
		August	(0.03)	510	(0)	(51)	\$ (89)
		September	(0.03)	512	(0)	(24)	\$ (44)
		October	(0.03)	513	(0)	(1)	\$ (4)
		November	(0.03)	513	(0)	(1)	\$ (3)
		December	(0.03)	512	0	0	\$ -
		Total		512		(232)	\$ (462)
Class Total			0.00	513		(232)	\$ (462)

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	CNGk	January	0.16	8	2	1,170	\$ 1,065
		February	0.16	8	2	1,327	\$ 1,184
		March	0.16	7	1	1,162	\$ 1,039
		April	0.16	7	1	771	\$ 709
		May	0.16	7	1	770	\$ 698
		June	0.16	7	1	443	\$ 420
		July	0.16	7	1	353	\$ 338
		August	0.16	7	1	457	\$ 413
		September	0.16	6	0	329	\$ 299
		October	0.16	6	0	257	\$ 230
		November	0.16	6	0	127	\$ 113
		December	0.16	6	0	0	\$ -
		Total	0.16	7		7,167	\$ 6,509
KTOP-19	CNGk	January	0.00	1	0	0	\$ -
		February	0.00	1	0	0	\$ -
		March	0.00	1	0	0	\$ -
		April	0.00	1	0	0	\$ -
		May	0.00	1	0	0	\$ -
		June	0.00	1	0	0	\$ -
		July	0.00	1	0	0	\$ -
		August	0.00	1	0	0	\$ -
		September	0.00	1	0	0	\$ -
		October	0.00	1	0	0	\$ -
		November	0.00	1	0	0	\$ -
		December	0.00	1	0	0	\$ -
		Total	0.00	1		0	\$ -
KICT-20	CNGk	January	0.03	1	0	107	\$ 111
		February	0.03	1	0	89	\$ 94
		March	0.03	1	0	89	\$ 92
		April	0.03	1	0	83	\$ 85
		May	0.03	1	0	67	\$ 69
		June	0.03	1	0	53	\$ 56
		July	0.03	1	0	81	\$ 77
		August	0.03	1	0	44	\$ 44
		September	0.03	1	0	25	\$ 26
		October	0.03	1	0	22	\$ 22
		November	0.03	1	0	10	\$ 10
		December	0.03	1	0	0	\$ -
		Total	0.03	1		668	\$ 685
Class Total			0.19	9		7,835	\$ 7,194

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	
KMCI-09	CNGt	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KTOP-19	CNGt	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KICT-20	CNGt	January	0.08	3	1	429	\$	407
		February	0.08	3	1	1,825	\$	1,546
		March	0.08	3	1	2,113	\$	1,777
		April	0.08	3	1	1,460	\$	1,237
		May	0.08	3	1	1,315	\$	1,113
		June	0.08	3	1	1,183	\$	1,000
		July	0.08	2	0	998	\$	843
		August	0.08	2	0	863	\$	727
		September	0.08	2	0	576	\$	488
		October	0.08	2	0	433	\$	365
		November	0.08	2	0	238	\$	200
		December	0.08	2	0	0	\$	-
		Total	0.08	2		11,432	\$	9,703
Class Total			0.08	2		11,432	\$	9,703

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	Adjustment
KMCI-09	SGS	January	0.27	273	3	13	\$	166
		February	0.27	278	3	9	\$	149
		March	0.27	284	2	7	\$	133
		April	0.27	265	2	3	\$	117
		May	0.27	283	2	2	\$	101
		June	0.27	278	2	1	\$	87
		July	0.27	275	1	1	\$	72
		August	0.27	275	1	0	\$	58
		September	0.27	275	1	1	\$	43
		October	0.27	276	1	0	\$	29
		November	0.27	273	0	0	\$	15
		December	0.27	238	0	0	\$	-
		Total	0.27	273		37	\$	969
KTOP-19	SGS	January	0.25	34	3	5	\$	146
		February	0.25	35	2	4	\$	132
		March	0.25	34	2	4	\$	119
		April	0.25	36	2	2	\$	105
		May	0.25	38	2	1	\$	91
		June	0.25	37	1	0	\$	78
		July	0.25	38	1	0	\$	65
		August	0.25	36	1	0	\$	52
		September	0.25	36	1	0	\$	39
		October	0.25	35	0	0	\$	26
		November	0.25	36	0	0	\$	13
		December	0.25	37	0	0	\$	-
		Total	0.25	36		17	\$	867
KICT-20	SGS	January	0.68	373	8	30	\$	411
		February	0.68	368	7	22	\$	370
		March	0.68	368	6	13	\$	329
		April	0.68	365	5	9	\$	291
		May	0.68	365	5	4	\$	252
		June	0.68	371	4	2	\$	215
		July	0.68	364	3	2	\$	179
		August	0.68	365	3	2	\$	144
		September	0.68	368	2	1	\$	108
		October	0.68	365	1	1	\$	72
		November	0.68	362	1	1	\$	36
		December	0.68	369	0	0	\$	-
		Total	0.68	367		87	\$	2,408
Class Total			1.21	676		141	\$	4,244

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue	
			Customer Annualization	Annualized Customer			Adjustment	Adjustment
KMCI-09	KGSSD	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KTOP-19	KGSSD	January	0.00	0	0	0	\$	-
		February	0.00	0	0	0	\$	-
		March	0.00	0	0	0	\$	-
		April	0.00	0	0	0	\$	-
		May	0.00	0	0	0	\$	-
		June	0.00	0	0	0	\$	-
		July	0.00	0	0	0	\$	-
		August	0.00	0	0	0	\$	-
		September	0.00	0	0	0	\$	-
		October	0.00	0	0	0	\$	-
		November	0.00	0	0	0	\$	-
		December	0.00	0	0	0	\$	-
		Total	0.00	0		0	\$	-
KICT-20	KGSSD	January	0.00	1	0	0	\$	-
		February	0.00	1	0	0	\$	-
		March	0.00	1	0	0	\$	-
		April	0.00	1	0	0	\$	-
		May	0.00	1	0	0	\$	-
		June	0.00	1	0	0	\$	-
		July	0.00	1	0	0	\$	-
		August	0.00	1	0	0	\$	-
		September	0.00	1	0	0	\$	-
		October	0.00	1	0	0	\$	-
		November	0.00	1	0	0	\$	-
		December	0.00	1	0	0	\$	-
		Total	0.00	1		0	\$	-
Class Total			0.00	1		0	\$	-

Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	SSR	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total	0.00	0		0	\$ -
KTOP-19	SSR	January	0.04	2	0	49	\$ 100
		February	0.04	1	0	0	\$ 35
		March	0.04	1	0	15	\$ 51
		April	0.04	1	0	6	\$ 36
		May	0.04	1	0	0	\$ 25
		June	0.04	1	0	2	\$ 24
		July	0.04	1	0	2	\$ 21
		August	0.04	1	0	2	\$ 16
		September	0.04	1	0	1	\$ 12
		October	0.04	1	0	1	\$ 8
		November	0.04	1	0	1	\$ 5
		December	0.04	0	0	0	\$ -
		Total	0.04	1		80	\$ 334
KICT-20	SSR	January	0.00	7	0	98	\$ 126
		February	0.00	6	0	105	\$ 134
		March	0.00	6	0	47	\$ 62
		April	0.00	6	0	20	\$ 28
		May	0.00	6	0	9	\$ 14
		June	0.00	6	0	3	\$ 5
		July	0.00	6	0	2	\$ 3
		August	0.00	6	0	1	\$ 2
		September	0.00	6	0	1	\$ 2
		October	0.00	6	0	1	\$ 2
		November	0.00	6	0	2	\$ 3
		December	0.00	6	0	0	\$ -
		Total	0.00	6		289	\$ 381
Class Total			0.05	7		369	\$ 715

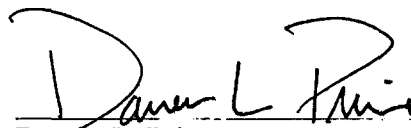
Exhibit DLP - 3
18-KGSG-560-RTS
Staff Adjustment IS-12

Weather Station	Customer Classification	TY: 201701 - 201712 Month	Customer Annualization		Change in Customers	Volumetric Adjustment	Revenue Adjustment
			Customer Annualization	Annualized Customer			
KMCI-09	WTt	January	0.00	0	0	0	\$ -
		February	0.00	0	0	0	\$ -
		March	0.00	0	0	0	\$ -
		April	0.00	0	0	0	\$ -
		May	0.00	0	0	0	\$ -
		June	0.00	0	0	0	\$ -
		July	0.00	0	0	0	\$ -
		August	0.00	0	0	0	\$ -
		September	0.00	0	0	0	\$ -
		October	0.00	0	0	0	\$ -
		November	0.00	0	0	0	\$ -
		December	0.00	0	0	0	\$ -
		Total		0		0	\$ -
KTOP-19	WTt	January	0.00	13	0	0	\$ -
		February	0.00	13	0	0	\$ -
		March	0.00	13	0	0	\$ -
		April	0.00	13	0	0	\$ -
		May	0.00	13	0	0	\$ -
		June	0.00	13	0	0	\$ -
		July	0.00	13	0	0	\$ -
		August	0.00	13	0	0	\$ -
		September	0.00	13	0	0	\$ -
		October	0.00	13	0	0	\$ -
		November	0.00	13	0	0	\$ -
		December	0.00	13	0	0	\$ -
		Total		13		0	\$ -
KICT-20	WTt	January	0.00	14	0	0	\$ -
		February	0.00	14	0	0	\$ -
		March	0.00	14	0	0	\$ -
		April	0.00	14	0	0	\$ -
		May	0.00	14	0	0	\$ -
		June	0.00	14	0	0	\$ -
		July	0.00	14	0	0	\$ -
		August	0.00	14	0	0	\$ -
		September	0.00	14	0	0	\$ -
		October	0.00	14	0	0	\$ -
		November	0.00	14	0	0	\$ -
		December	0.00	14	0	0	\$ -
		Total		14		0	\$ -
Class Total			0.00	27		0	\$ -

STATE OF KANSAS)
) ss.
COUNTY OF SHAWNEE)

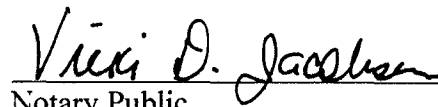
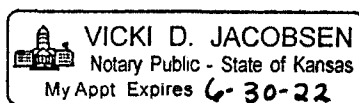
VERIFICATION

Darren L. Prince, being duly sworn upon his oath deposes and states that he is a Senior Managing Economist for the Utilities Division of the Kansas Corporation Commission of the State of Kansas, that he has read and is familiar with the foregoing *Direct Testimony*, and attests that the statements contained therein are true and correct to the best of his knowledge, information and belief.



Darren L. Prince
Senior Managing Economist
State Corporation Commission of the
State of Kansas

Subscribed and sworn to before me this 25th day of October, 2018.


Notary Public

My Appointment Expires: June 30, 2022

CERTIFICATE OF SERVICE

18-KGSG-560-RTS

I, the undersigned, certify that a true and correct copy of the above and foregoing Staff Direct Testimony was served via electronic service this 29th day of October, 2018, to the following:

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