

November 1, 2017

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55101-2147

Re: Docket No. G004/M-17-521
Informational Update Filing on Great Plains' 2017 Demand Entitlement Filing

Dear Mr. Wolf:

Great Plains Natural Gas Co. (Great Plains), a Division of MDU Resources Group, Inc., submitted its Demand Entitlement Filing on June 30, 2017 (June 30 DEQ) in the above referenced docket.

TF12 Reallocation:

As stated in the June 30 DEQ filing, Great Plains agreed to update the Commission on the allocation of Northern's TF12 Base and TF12 Variable in place for the 2017-2018 season. Great Plains was informed that Northern is decreasing the TF12 Base by 567 dk to 4,854 dk per day, while increasing the TF12 Variable by 567 dk to 2,681 dk per day. This new allocation will be effective November 1, 2017.

Table 1
TF12 Changes to Initial Filing

	Initial Filing (Dk)	Change (Dk)	Update (Dk)
TF12 Base	5,421	(567)	4,854
TF12 Variable	2,114	567	2,681

Updated Demand Costs:

In the June 30 DEQ filing, Great Plains proposed to place a bid for up to 2,500 Dk/day of incremental capacity through an open season held by Viking Gas Transmission (VGT). The proposed bid of 2,500 Dk/day for a five-year term consisted of 1,600 Dk/day to replace the 1,400 Dk/day that expired after the 2016-2017 heating season and 900 Dk/day to be utilized in future years. Great Plains was unable to secure the additional incremental capacity during VGT's open season. Great Plains has entered into a contractual agreement with BP Canada Energy Marketing Corp. for a seasonal firm Capacity purchase of 1,600 Dk/day at a rate cost of \$0.155 per Dk for the 2017-2018 heating season (November – March). This contract replaces the 1,400 Dk/day contract that expired at the end of the 2016-2017 heating season, and provides a 5.2% reserve margin for the upcoming heating season.

Table 2
Updated Demand Costs

Interstate Pipelines	Volumes Dk/day	Rates \$	Months	Demand Costs \$
<u>Viking</u>				
FT-A - Zone 1-1 (Cat. 3)	8,000	\$4.3706	12	\$419,578
FT-A - Zone 1-1 (Cat. 3)	5,000	4.3706	12	262,236
FT-A Seasonal (Cat. 3)	2,000	4.3706	5	43,706
BP Contract (Firm Demand)	1,600	4.7120	5	37,696
<u>NNG</u>				
TFX - Summer	13,000	5.6830	7	517,153
TFX - Winter	13,000	15.1530	5	984,945
TFX Seasonal (Nov. - Mar.)	2,000	15.1530	5	151,530
TF12 Base - Summer	4,854	5.6830	7	193,097
TF12 Base - Winter	4,854	10.2300	5	248,282
TF12 Variable - Summer	2,681	5.6830	7	106,653
TF12 Variable - Winter	2,681	13.8660	5	185,874
TF5	3,410	15.1530	5	258,359
TFX - Winter	5,200	15.1530	5	393,978
TFX - Annual (Summer Rate)	2,000	5.6830	7	79,562
TFX - Annual (Winter Rate)	2,000	15.1530	5	151,530
TFX Negotiated Contract	1,000	26.8918	5	134,459
FDD-1 Reservation	4,640	1.7140	12	95,436
Interruptible Demand Credit				(348,552)
Total Demand Charges				<u>\$3,915,522</u>

The total customer impact of the updated demand profile compared to rates effective July 1, 2017 is an increase of \$0.0066 per dk as shown on Exhibit C. Please see Table 3 below for the annual rate impacts, as originally filed and reflecting the changes noted above.

Table 3
Annual Demand Rate Impacts

Filing	Residential Customer (77.9 Dk)	Total Change Res (%)	Firm General Service (434.4 Dk)	Total Change FGS (%)
June 30, 2017	\$2.70	2.7	\$15.03	2.7
Change due to update	(\$2.19)	(2.2)	(\$12.16)	(2.2)
November 1, 2017	\$0.51	0.5	\$2.87	0.5

Great Plains' analysis indicates that the portfolio in place for the 2017-2018 heating season will allow the Company to adequately serve customers.

In support of updating Docket No. G004/M-17-521, Great Plains has updated the following exhibits to show the impact of the changes listed above.

- Exhibit A – Design Day Capacity
- Exhibit B – Demand Profile
- Exhibit C – Rate Impacts
- Exhibit D – Demand Entitlement Analysis

Per the Department's request in its Response Comments to Docket No. G004/M-15-645, dated August 31, 2016, Great Plains has included a red-line version of the Exhibits. Please see Exhibit E.

If you have any questions regarding this filing, please contact me at (701) 222-7856, or Brian M. Meloy, at (612) 335-1451.

Sincerely,

/s/ Tamie A. Aberle

Tamie A. Aberle
Director of Regulatory Affairs

cc: Brian M. Meloy

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2017 - 2018 HEATING SEASON
DESIGN DAY - NOVEMBER 2017
-UPDATE-**

Pipeline	Customer Factors 1/			Design HDD 2/	No. of Customers 3/	Projected Customers 4/	Peak/ Customer	Projected Peak Day (dk)	L&UA 5/	Projected Design	Proposed Capacity	Reserve
	Dk/day	Dk/DD	RSqr									
VGT												
Crookston	0.04204	0.01409	0.98198	96	2,524	2,554	1.39468	3,561	25	3,586		
North 4	0.05467	0.01332	0.95988	91	7,145	7,191	1.26679	9,106	64	9,170		
Wahpeton	0.07393	0.01417	0.98646	91	2,195	2,231	1.36340	3,044	21	3,065		
Total VGT					<u>11,864</u>	<u>11,976</u>		<u>15,711</u>	<u>110</u>	<u>15,821</u>		
NNG	0.05342	0.01619	0.98566	83	<u>11,946</u>	<u>12,021</u>	1.39719	<u>16,794</u>	<u>118</u>	<u>16,912</u>		
Total					<u><u>23,810</u></u>	<u><u>23,997</u></u>		<u><u>32,505</u></u>	<u><u>228</u></u>	<u><u>32,733</u></u>	<u><u>34,445</u></u>	<u><u>5.2%</u></u>

1/ Use per customer factors based on regression analysis for the 36 months ending March 2017.

2/ Design Heating Degree Days Base 60 degrees F.

3/ Reflects monthly average for December 2016 - February 2017.

4/ Customer growth is based on regression analysis for the 36 months ending March 2017 with composite growth rates of: Crookston = 1.32%, North = 0.87%, Wahpeton = 1.13%, South = 0.63%.

5/ Lost and Unaccounted for Gas percentage of 0.7%.

GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2017 - 2018 HEATING SEASON
DEMAND PROFILE EFFECTIVE NOVEMBER 1, 2017
-UPDATE-

<u>Type of Capacity or Entitlement</u>	<u>Authorized Amount</u>	<u>Proposed Change</u>	<u>Proposed Amount</u>	<u>Contract Length</u>	<u>Expiration Date</u>
<u>Demand Profile (dk) 1/</u>					
<u>VGT</u>					
FT-A - Zone 1-1 (Cat. 3)	8,000	0	8,000	5 years	10/31/22
FT-A - Zone 1-1 (Cat. 3)	5,000	0	5,000	5 years	10/31/22
FT-A (Cat. 3) Seasonal (November - March)	2,000	0	2,000	5 years	10/31/22
FT-A (November - March)	1,400	(1,400)	0	5 months	3/31/17
BP Contract (Firm Demand)	0	1,600	1,600	5 months	3/31/18
<u>NNG</u>					
TF12 Base (Summer & Winter)	5,421	(567)	4,854	5 years	10/31/19
TF12 Variable (Summer & Winter)	2,114	567	2,681	5 years	10/31/19
TF5 (November - March)	3,410	0	3,410	5 years	10/31/19
TFX Negotiated (November - March)	1,000	0	1,000	10.5 years	3/31/25
TFX Seasonal (November - March)	5,200	0	5,200	5 years	10/31/19
TFX (Annual)	2,000	(1,300) 2/	700	10 years	10/31/25
TFX Seasonal - Capacity Release	(1,000)	1,000	0	5 months	3/31/17
TF12 - Capacity Release	(300)	300	0	4 months	3/31/17
Subtotal	34,245	200	34,445		
<u>Supplemental Capacity</u>					
TFX Seasonal (November - March)	2,000	0	2,000	5 years	10/31/19
TFX (Annual)	13,000	0	13,000	11.5 years	3/31/24
TFX (Annual)	0	1,300 2/	1,300	10 years	10/31/25
<u>Storage</u>					
FDD-1 Reservation	4,640	0	4,640	5 years	5/31/20
Heating Season Total Capacity:	34,245	200	34,445		
Non-Heating Season Total Capacity:	22,535	0	22,535		
Forecasted Heating Season Design Day:	32,398	335	32,733		
Estimated Non-Heating Season Design Day:	17,831	195	18,026		
Heating Season Capacity: Surplus/(Shortage)	1,847	(135)	1,712		
Non-Heating Season Capacity: Surplus/(Shortage)	4,704	(195)	4,509		

1/ Minnesota communities plus Wahpeton, ND.

2/ Northern Natural capacity to be used as supplemental capacity to deliver gas to Viking at Chisago for "back-haul" transport to Vergas, MN.

**GREAT PLAINS NATURAL GAS CO.
DEMAND PROFILE
-UPDATE-**

2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		2017-2018 Heating Season G004/M-17-521		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
FT-A (Cat. 3) (12 months)	8,000	FT-A (Cat. 3) (12 months)	8,000	FT-A (Cat. 3) (12 months)	8,000	0
FT-A (Cat. 1) (12 months)	5,000	FT-A (Cat. 1) (12 months)	5,000	FT-A (Cat. 3) (12 months)	5,000	0
FT-A (November - March)	2,000	FT-A (November - March)	2,000	FT-A (Cat. 3) (November - March)	2,000	0
BP Seasonal (Firm Gas to Chisago) 1/	730	BP Seasonal (Firm Gas to Chisago)	-	BP Seasonal (Firm Gas to Chisago)	-	0
FT-A (November - March)	700	FT-A (November - March)	1,400	FT-A (November - March)	-	(1,400)
				BP Contract (Firm Demand)	1,600	1,600
TFX (12 months)	13,000	TFX (12 months)	13,000	TFX (12 months)	13,000	0
TFX (November - March)	2,000	TFX (November - March)	2,000	TFX (November - March)	2,000	0
TF-12 Base	4,604	TF-12 Base	5,421	TF-12 Base	4,854	(567)
TF-12 Variable	2,931	TF-12 Variable	2,114	TF-12 Variable	2,681	567
TF-5 (November- March)	3,410	TF-5 (November- March)	3,410	TF-5 (November- March)	3,410	0
TFX (November - March)	5,200	TFX (November - March)	5,200	TFX (November - March)	5,200	0
TFX - Negotiated (November - March)	1,000	TFX - Negotiated (November - March)	1,000	TFX - Negotiated (November - March)	1,000	0
TFX (Annual)	2,000	TFX (Annual)	2,000	TFX (Annual) 2/	2,000	0
TFX - Capacity Release	(1,300)	TFX - Capacity Release	(1,000)	TFX - Capacity Release	-	1,000
		TF-12 - Capacity Release	(300)	TF-12 - Capacity Release	-	300
FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	0
Heating Season Total Capacity	33,545	Heating Season Total Capacity	34,245	Heating Season Total Capacity 3/	34,445	200
Non-Heating Season Total Capacity	22,535	Non-Heating Season Total Capacity	22,535	Non-Heating Season Total Capacity	22,535	0
Total Entitlement (Including Peak Shaving)	33,545	Total Entitlement	34,245	Total Entitlement 3/	34,445	200
Total Annual Transportation	22,535	Total Annual Transportation	22,535	Total Annual Transportation 3/	21,235	(1,300)
Total Season Transportation	11,010	Total Season Transportation	11,710	Total Season Transportation	13,210	1,500
Percent TF-5	31.16%	Percent TF-5	31.16%	Percent TF-5	31.16%	0.00%
Total Percent Seasonal	32.82%	Total Percent Seasonal	34.19%	Total Percent Seasonal	38.35%	4.16%

1/ Does not impact demand profile.

2/ Demand profile includes 700 dk: Remaining 1,300 dk used to deliver gas to Viking interconnect at Chisago for 1,300 dk FT-A (12 Months) "back-haul" contract to Vergas, MN.

3/ Includes 700 dk of total 2,000 dk from TFX (Annual) contract for capacity and demand profile calculation.

GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2017
NORTH DISTRICT
-UPDATE-

	Last Rate Case 1/	Last Demand Change 2/	July 2017 PGA Rates	November 2017 PGA Rates 3/	% Change from			Change from July 2017 PGA Rates
					Last Rate Case	Last Demand Change	July 2017 PGA Rates	
Residential								
Commodity Cost of Gas 4/	\$2.60630	\$2.94760	\$2.95690	\$3.06040	17.4%	3.8%	3.5%	\$0.10350
Demand Cost of Gas	1.18900	1.63600	1.26110	1.26770	6.6%	-22.5%	0.5%	0.00660
Commodity Margin 5/	2.25960	2.02620	2.27353	2.41923	7.1%	19.4%	6.4%	0.14570
Total Rate	\$6.05490	\$6.60980	\$6.49153	\$6.74733	11.4%	2.1%	3.9%	\$0.25580
Average Annual Usage (dk)	77.9	77.9	77.9	77.9				
Average Annual Cost of Gas	\$471.68	\$514.90	\$505.69	\$525.62	11.4%	2.1%	3.9%	\$19.93
Firm General Service								
Commodity Cost of Gas 4/	\$2.60630	\$2.94760	\$2.95690	\$3.06040	17.4%	3.8%	3.5%	\$0.10350
Demand Cost of Gas	1.18900	1.63600	1.26110	1.26770	6.6%	-22.5%	0.5%	0.00660
Commodity Margin 5/	1.84870	1.65710	1.86263	1.97153	6.6%	19.0%	5.8%	0.10890
Total Rate	\$5.64400	\$6.24070	\$6.08063	\$6.29963	11.6%	0.9%	3.6%	\$0.21900
Average Annual Usage (dk)	434.4	434.4	434.4	434.4				
Average Annual Cost of Gas	\$2,451.75	\$2,710.96	\$2,641.43	\$2,736.56	11.6%	0.9%	3.6%	\$95.13
Customer Class								
	Commodity Change		Demand Change		Total Change		Average Annual Bill Change	
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)		
Residential	\$0.1035	3.5%	\$0.0066	0.5%	\$0.2558	3.9%	\$19.93	
Firm General Service	0.1035	3.5%	0.0066	0.5%	0.2190	3.6%	\$95.13	

1/ Consolidated Base Cost of Gas effective July 1, 2017 in update to Docket No. G004/MR-16-834. Commodity margin effective January 1, 2017 in Docket No. G004/GR-15-879.

2/ Demand in Docket No. G004/AA-16-885, effective November 1, 2016; Commodity Margin includes interim adjustment of 17.671% effective January 1, 2016 - Docket No. G004/GR-15-879.

3/ Consolidated commodity and demand costs proposed in Docket No. G004/M-17-521 effective November 1, 2017.

4/ Historical periods include GCR rate of \$0.0762 (effective September 1, 2016 - Docket No. G004/AA-16-719); November includes GCR rate of \$0.1748 (effective September 1, 2017 - Docket No. G004/AA-17-493).

5/ Historical periods include CCRA of \$0.2125 (effective January 1, 2017 - Docket No. G004/M-16-384) and GAP of \$0.01393 (effective June 1, 2017 - Docket No. G004/M-16-495); November includes CCRA of \$0.2097 (effective September 1, 2017 - Docket No. G004-M-17-338), GAP of \$0.01393, GUIC of \$0.1485 for residential and \$0.1117 for firm general (effective November 1, 2017 - Docket No. G004/M-16-1066).

GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2017
SOUTH DISTRICT
-UPDATE-

	Last Rate Case 1/	Last Demand Change 2/	July 2017 PGA Rates	November 2017 PGA Rates 3/	% Change from			Change from July 2017 PGA Rates
					Last Rate Case	Last Demand Change	July 2017 PGA Rates	
Residential								
Commodity Cost of Gas 4/	\$2.69280	\$3.04810	\$3.04340	\$3.06040	13.7%	0.4%	0.6%	\$0.01700
Demand Cost of Gas	1.18900	1.23410	1.26110	1.26770	6.6%	2.7%	0.5%	0.00660
Commodity Margin 5/	1.75920	1.57430	1.77313	1.91883	9.1%	21.9%	8.2%	0.14570
Total Rate	\$5.64100	\$5.85650	\$6.07763	\$6.24693	10.7%	6.7%	2.8%	\$0.16930
Average Annual Usage (dk)	77.9	77.9	77.9	77.9				
Average Annual Cost of Gas	\$439.43	\$456.22	\$473.45	\$486.64	10.7%	6.7%	2.8%	\$13.19
Firm General Service								
Commodity Cost of Gas 4/	\$2.69280	\$3.04810	\$3.04340	\$3.06040	13.7%	0.4%	0.6%	\$0.01700
Demand Cost of Gas	1.18900	1.23410	1.26110	1.26770	6.6%	2.7%	0.5%	0.00660
Commodity Margin 5/	1.47070	1.28270	1.48463	1.59353	8.4%	24.2%	7.3%	0.10890
Total Rate	\$5.35250	\$5.56490	\$5.78913	\$5.92163	10.6%	6.4%	2.3%	\$0.13250
Average Annual Usage (dk)	434.4	434.4	434.4	434.4				
Average Annual Cost of Gas	\$2,325.13	\$2,417.39	\$2,514.80	\$2,572.36	10.6%	6.4%	2.3%	\$57.56
Customer Class								
	Commodity Change		Demand Change		Total Change		Average Annual	
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)	Bill Change	
Residential	\$0.0170	0.6%	\$0.0066	0.5%	\$0.1693	2.8%	\$13.19	
Firm General Service	0.0170	0.6%	0.0066	0.5%	0.1325	2.3%	\$57.56	

1/ Consolidated Base Cost of Gas effective July 1, 2017 in update to Docket No. G004/MR-16-834. Commodity margin effective January 1, 2017 in Docket No. G004/GR-15-879.

2/ Demand in Docket No. G004/AA-16-885, effective November 1, 2016; Commodity Margin includes interim adjustment of 17.671% effective January 1, 2016 - Docket No. G004/GR-15-879.

3/ Consolidated commodity and demand costs proposed in Docket No. G004/M-17-521 effective November 1, 2017.

4/ Historical periods include GCR rate of \$0.1627 (effective September 1, 2016 - Docket No. G004/AA-16-719); November includes GCR rate of \$0.1748 (effective September 1, 2017 - Docket No. G004/AA-17-493).

5/ Historical periods include CCRA of \$0.2125 (effective January 1, 2017 - Docket No. G004/M-16-384) and GAP of \$0.01393 (effective June 1, 2017 - Docket No. G004/M-16-495); November includes CCRA of \$0.2097 (effective September 1, 2017 - Docket No. G004-M-17-338), GAP of \$0.01393, GUIC of \$0.1485 for residential and \$0.1117 for firm general (effective November 1, 2017 - Docket No. G004/M-16-1066).

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT ANALYSIS
-UPDATE-**

	Number of Firm Customers			Design Day Requirement			Total Entitlement + Storage + Peak Shaving			
	(1) Number of Customers	(2) Change From Previous Year	(3) % Change From Previous Year	(4) Design Day (dk)	(5) Change From Previous Year	(6) % Change From Previous Year	(7) Total Entitlement (dk)	(8) Change From Previous Year	(9) % Change From Previous Year	(10) % of Reserve Margin [(7)-(4)]/(4)
Heating Season	23,997			32,733			34,445			5.2%
Annual Average			0.00%			0.00%			0.00%	5.2%

	Firm Peak Day Sendout			(14) Excess Per Customer [(7)-(4)]/(1)	(15) Design Day per Customer (4)/(1)	(16) Entitlement per Customer (7)/(1)	(17) Peak Day Sendout per Customer (11)/(1)
	(11) Firm Peak Day Sendout (dk)	(12) Change From Previous Year	(13) % Change From Previous Year				
Heating Season	0			0.0713	1.3640	1.4354	0.0000
Annual Average			0.00%	0.0713	1.3640	1.4354	0.0000

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT ANALYSIS
NORTH DISTRICT**

-UPDATE-

Heating Season	Number of Firm Customers			Design Day Requirement			Total Entitlement + Storage + Peak Shaving			
	(1) Number of Customers	(2) Change From Previous Year	(3) % Change From Previous Year	(4) Design Day (dk)	(5) Change From Previous Year	(6) % Change From Previous Year	(7) Total Entitlement (dk)	(8) Change From Previous Year	(9) % Change From Previous Year	(10) % of Reserve Margin [(7)-(4)]/(4)
2016-2017	11,854	11	0.09%	15,556	147	0.95%	16,400	700	4.46%	5.43%
2015-2016	11,843	161	1.38%	15,409	597	4.03%	15,700	200	1.29%	1.89%
2014-2015	11,682	103	0.89%	14,812	672	4.75%	15,500	500	3.33%	4.64%
2013-2014	11,579	172	1.51%	14,140	(104)	-0.73%	15,000	0	0.00%	6.08%
2012-2013	11,407	177	1.58%	14,244	176	1.25%	15,000	159	1.07%	5.31%
2011-2012	11,230	48	0.43%	14,068	(96)	-0.68%	14,841	(1,000)	-6.31%	5.49%
2010-2011	11,182	(12)	-0.11%	14,164	(248)	-1.72%	15,841	0	0.00%	11.84%
2009-2010	11,194	8	0.07%	14,412	(37)	-0.26%	15,841	(1,000)	-5.94%	9.92%
2008-2009	11,186	41	0.37%	14,449	(413)	-2.78%	16,841	0	0.00%	16.55%
2007-2008	11,145	28	0.25%	14,862	(289)	-1.91%	16,841	0	0.00%	13.32%
2006-2007	11,117	(64)	-0.57%	15,151	(673)	-4.25%	16,841	0	0.00%	11.15%
2005-2006	11,181	81	0.73%	15,824	(49)	-0.31%	16,841	0	0.00%	6.43%
2004-2005	11,100	25	0.23%	15,873	(121)	-0.76%	16,841	0	0.00%	6.10%
2003-2004 1/	11,075	2,375	27.30%	15,994	2,559	19.05%	16,841	4,154	32.74%	5.30%
2002-2003	8,700	180	2.11%	13,435	(1,231)	-8.39%	12,687	(2,780)	-17.97%	-5.57%
2001-2002	8,520	19	0.22%	14,666	212	1.47%	15,467	0	0.00%	5.46%
2000-2001	8,501	304	3.71%	14,454	0	0.00%	15,467	0	0.00%	7.01%
1999-2000	8,197	82	1.01%	14,454	618	4.47%	15,467	0	0.00%	7.01%
1998-1999	8,115	227	2.88%	13,836	244	1.80%	15,467	0	0.00%	11.79%
1997-1998	7,888	215	2.80%	13,592	2,415	21.61%	15,467	3,950	34.30%	13.79%
1996-1997	7,673	267	3.61%	11,177	379	3.51%	11,517	1,459	14.51%	3.04%
1995-1996	7,406			10,798			10,058			-6.85%
Annual Average			2.40%			1.96%			2.93%	6.60%

Heating Season	Firm Peak Day Sendout			(14) Excess Per Customer [(7)-(4)]/(1)	(15) Design Day per Customer (4)/(1)	(16) Entitlement per Customer (7)/(1)	(17) Peak Day Sendout per Customer (11)/(1)
	(11) Firm Peak Day Sendout (dk)	(12) Change From Previous Year	(13) % Change From Previous Year				
2016-2017	13,328	1,664	14.27%	0.0712	1.3123	1.3835	1.1243
2015-2016	11,664	(2,204)	-15.89%	0.0246	1.3011	1.3257	0.9849
2014-2015	13,868	632	4.77%	0.0589	1.2679	1.3268	1.1871
2013-2014	13,236	1,530	13.07%	0.0743	1.2212	1.2954	1.1431
2012-2013	11,706	3,265	38.68%	0.0663	1.2487	1.3150	1.0262
2011-2012	8,441	(2,617)	-23.67%	0.0688	1.2527	1.3215	0.7516
2010-2011	11,058	2,134	23.91%	0.1500	1.2667	1.4167	0.9889
2009-2010	8,924	(769)	-7.93%	0.1277	1.2875	1.4151	0.7972
2008-2009	9,693	(348)	-3.47%	0.2138	1.2917	1.5055	0.8665
2007-2008	10,041	451	4.70%	0.1776	1.3335	1.5111	0.9009
2006-2007	9,590	43	0.45%	0.1520	1.3629	1.5149	0.8626
2005-2006	9,547	(923)	-8.82%	0.0910	1.4153	1.5062	0.8539
2004-2005	10,470	(942)	-8.25%	0.0872	1.4300	1.5172	0.9432
2003-2004	11,412	1,606	16.38%	0.0765	1.4442	1.5206	1.0304
2002-2003	9,806	(3,572)	-26.70%	(0.0860)	1.5443	1.4583	1.1271
2001-2002	13,378	1,699	14.55%	0.0940	1.7214	1.8154	1.5702
2000-2001	11,679	(1,699)	-12.70%	0.1192	1.7003	1.8194	1.3738
1999-2000	13,378	2,196	19.64%	0.1236	1.7633	1.8869	1.6321
1998-1999	11,182	(748)	-6.27%	0.2010	1.7050	1.9060	1.3779
1997-1998	11,930	267	2.29%	0.2377	1.7231	1.9608	1.5124
1996-1997	11,663	551	4.96%	0.0443	1.4567	1.5010	1.5200
1995-1996	11,112			(0.0999)	1.4580	1.3581	1.5004
Annual Average			2.09%	0.0943	1.4322	1.5264	1.1398

1/ Crookston was consolidated with the North District in 2003.

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT ANALYSIS
SOUTH DISTRICT
-UPDATE-**

Heating Season	Number of Firm Customers			Design Day Requirement			Total Entitlement + Storage + Peak Shaving			
	(1) Number of Customers	(2) Change From Previous Year	(3) % Change From Previous Year	(4) Design Day (dk)	(5) Change From Previous Year	(6) % Change From Previous Year	(7) Total Entitlement (dk)	(8) Change From Previous Year	(9) % Change From Previous Year	(10) % of Reserve Margin [(7)-(4)]/(4)
2016-2017	11,959	(80)	-0.66%	16,842	(16)	-0.09%	17,845	0	0.00%	5.96%
2015-2016	12,039	197	1.66%	16,858	546	3.35%	17,845	700	4.08%	5.85%
2014-2015	11,842	193	1.66%	16,312	1,019	6.66%	17,145	1,500	9.59%	5.11%
2013-2014	11,649	118	1.02%	15,293	443	2.98%	15,645	0	0.00%	2.30%
2012-2013	11,531	(13)	-0.11%	14,850	(18)	-0.12%	15,645	0	0.00%	5.35%
2011-2012	11,544	(8)	-0.07%	14,868	(297)	-1.96%	15,645	(380)	-2.37%	5.23%
2010-2011	11,552	10	0.09%	15,165	(267)	-1.73%	16,025	(1,170)	-6.80%	5.67%
2009-2010	11,542	77	0.67%	15,432	156	1.02%	17,195	(170)	-0.98%	11.42%
2008-2009	11,465	8	0.07%	15,276	(301)	-1.93%	17,365	0	0.00%	13.68%
2007-2008	11,457	(27)	-0.24%	15,577	(117)	-0.75%	17,365	0	0.00%	11.48%
2006-2007	11,484	(224)	-1.91%	15,694	(699)	-4.26%	17,365	0	0.00%	10.65%
2005-2006	11,708	(92)	-0.78%	16,393	(336)	-2.01%	17,365	0	0.00%	5.93%
2004-2005	11,800	60	0.51%	16,729	92	0.55%	17,365	0	0.00%	3.80%
2003-2004	11,740	40	0.34%	16,637	(413)	-2.42%	17,365	0	0.00%	4.38%
2002-2003	11,700	76	0.65%	17,050	(2,058)	-10.77%	17,365	(2,600)	-13.02%	1.85%
2001-2002	11,624	189	1.65%	19,108	7	0.04%	19,965	0	0.00%	4.49%
2000-2001	11,435	(41)	-0.36%	19,101	0	0.00%	19,965	0	0.00%	4.52%
1999-2000	11,476	280	2.50%	19,101	340	1.81%	19,965	0	0.00%	4.52%
1998-1999	11,196	(25)	-0.22%	18,761	374	2.03%	19,965	0	0.00%	6.42%
1997-1998	11,221	306	2.80%	18,387	431	2.40%	19,965	2,000	11.13%	8.58%
1996-1997	10,915	235	2.20%	17,956	353	2.01%	17,965	1,008	5.94%	0.05%
1995-1996	10,680			17,603			16,957			-3.67%
Annual Average			0.55%			-0.15%			0.36%	5.62%

Heating Season	Firm Peak Day Sendout			(14) Excess Per Customer [(7)-(4)]/(1)	(15) Design Day per Customer (4)/(1)	(16) Entitlement per Customer (7)/(1)	(17) Peak Day Sendout per Customer (11)/(1)
	(11) Firm Peak Day Sendout (dk)	(12) Change From Previous Year	(13) % Change From Previous Year				
2016-2017	15,201	(381)	-2.45%	0.0839	1.4083	1.4922	1.2711
2015-2016	15,582	351	2.30%	0.0820	1.4003	1.4823	1.2943
2014-2015	15,231	774	5.35%	0.0703	1.3775	1.4478	1.2862
2013-2014	14,457	1,941	15.51%	0.0302	1.3128	1.3430	1.2411
2012-2013	12,516	2,248	21.89%	0.0689	1.2878	1.3568	1.0854
2011-2012	10,268	(1,652)	-13.86%	0.0673	1.2879	1.3552	0.8895
2010-2011	11,920	(692)	-5.49%	0.0744	1.3128	1.3872	1.0319
2009-2010	12,612	(962)	-7.09%	0.1527	1.3370	1.4898	1.0927
2008-2009	13,574	888	7.00%	0.1822	1.3324	1.5146	1.1840
2007-2008	12,686	401	3.26%	0.1561	1.3596	1.5157	1.1073
2006-2007	12,285	(789)	-6.03%	0.1455	1.3666	1.5121	1.0697
2005-2006	13,074	(996)	-7.08%	0.0830	1.4002	1.4832	1.1167
2004-2005	14,070	(626)	-4.26%	0.0539	1.4177	1.4716	1.1924
2003-2004	14,696	425	2.98%	0.0620	1.4171	1.4791	1.2518
2002-2003	14,271	2,151	17.75%	0.0269	1.4573	1.4842	1.2197
2001-2002	12,120	(2,724)	-18.35%	0.0737	1.6438	1.7176	1.0427
2000-2001	14,844	(1,921)	-11.46%	0.0756	1.6704	1.7460	1.2981
1999-2000	16,765	828	5.20%	0.0753	1.6644	1.7397	1.4609
1998-1999	15,937	(133)	-0.83%	0.1075	1.6757	1.7832	1.4235
1997-1998	16,070	115	0.72%	0.1406	1.6386	1.7793	1.4321
1996-1997	15,955	(418)	-2.55%	0.0008	1.6451	1.6459	1.4617
1995-1996	16,373			(0.0605)	1.6482	1.5877	1.5331
Annual Average			0.12%	0.0797	1.4573	1.5370	1.2266

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2017 - 2018 HEATING SEASON
DESIGN DAY - NOVEMBER 2017
-UPDATE-**

Pipeline	Customer Factors 1/			Design HDD 2/	No. of Customers 3/	Projected Customers 4/	Peak/ Customer	Projected Peak Day (dk)	L&UA 5/	Projected Design	Proposed Capacity	Reserve	
	Dk/day	Dk/DD	RSqr										
VGT													
Crookston	0.04204	0.01409	0.98198	96	2,524	2,554	1.39468	3,561	25	3,586			
North 4	0.05467	0.01332	0.95988	91	7,145	7,191	1.26679	9,106	64	9,170			
Wahpeton	0.07393	0.01417	0.98646	91	2,195	2,231	1.36340	3,044	21	3,065			
Total VGT					<u>11,864</u>	<u>11,976</u>		<u>15,711</u>	<u>110</u>	<u>15,821</u>			
NNG	0.05342	0.01619	0.98566	83	<u>11,946</u>	<u>12,021</u>	1.39719	<u>16,794</u>	<u>118</u>	<u>16,912</u>			
Total					<u><u>23,810</u></u>	<u><u>23,997</u></u>		<u><u>32,505</u></u>	<u><u>228</u></u>	<u><u>32,733</u></u>	<u><u>35,345</u></u>	<u><u>34,445</u></u>	<u><u>8.0%</u></u> <u><u>5.2%</u></u>

1/ Use per customer factors based on regression analysis for the 36 months ending March 2017.

2/ Design Heating Degree Days Base 60 degrees F.

3/ Reflects monthly average for December 2016 - February 2017.

4/ Customer growth is based on regression analysis for the 36 months ending March 2017 with composite growth rates of: Crookston = 1.32%, North = 0.87%, Wahpeton = 1.13%, South = 0.63%.

5/ Lost and Unaccounted for Gas percentage of 0.7%.

GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2017 - 2018 HEATING SEASON
DEMAND PROFILE EFFECTIVE NOVEMBER 1, 2017
-UPDATE-

<u>Type of Capacity or Entitlement</u>	<u>Authorized Amount</u>	<u>Proposed Change</u>	<u>Proposed Amount</u>	<u>Contract Length</u>	<u>Expiration Date</u>
<u>Demand Profile (dk) 1/</u>					
<u>VGT</u>					
FT-A - Zone 1-1 (Cat. 3)	8,000	0	8,000	5 years	10/31/22
FT-A - Zone 1-1 (Cat. 3)	5,000	0	5,000	4 5 years	10/31/22
FT-A (Cat. 3) Seasonal (November - March)	2,000	0	2,000	4 5 years	10/31/22
FT-A (November - March)	1,400	(1,400)	0	5 months	3/31/17
Proposed: FT-A - Zone 1-1 (Cat. 3)	0	2,500	2,500	5 years	10/31/22
BP Contract (Firm Demand)	0	1,600	1,600	5 months	3/31/18
<u>NNG</u>					
TF12 Base (Summer & Winter)	5,421	0 -567	5,421 4,854	5 years	10/31/19
TF12 Variable (Summer & Winter)	2,114	0 567	2,114 2,681	5 years	10/31/19
TF5 (November - March)	3,410	0	3,410	5 years	10/31/19
TFX Negotiated (November - March)	1,000	0	1,000	10.5 years	3/31/25
TFX Seasonal (November - March)	5,200	0	5,200	5 years	10/31/19
TFX (Annual)	2,000	(1,300) 2/	700	10 years	10/31/25
TFX Seasonal - Capacity Release	(1,000)	1,000	0	5 months	3/31/17
TF12 - Capacity Release	(300)	300	0	4 months	3/31/17
Subtotal	<u>34,245</u>	<u>1,100 200</u>	<u>35,345 34,445</u>		
<u>Supplemental Capacity</u>					
TFX Seasonal (November - March)	2,000	0	2,000	5 years	10/31/19
TFX (Annual)	13,000	0	13,000	11.5 years	3/31/24
TFX (Annual)	0	1,300 2/	1,300	10 years	10/31/25
<u>Storage</u>					
FDD-1 Reservation	4,640	0	4,640	5 years	5/31/20
Heating Season Total Capacity:	34,245	<u>1,100 200</u>	<u>35,345 34,445</u>		
Non-Heating Season Total Capacity:	22,535	0	22,535		
Forecasted Heating Season Design Day:	32,398	335	32,733		
Estimated Non-Heating Season Design Day:	17,831	195	18,026		
Heating Season Capacity: Surplus/(Shortage)	1,847	765 (135)	2,612 1,712		
Non-Heating Season Capacity: Surplus/(Shortage)	4,704	(195)	4,509		

1/ Minnesota communities plus Wahpeton, ND.

2/ Northern Natural capacity to be used as supplemental capacity to deliver gas to Viking at Chisago for "back-haul" transport to Vergas, MN.

**GREAT PLAINS NATURAL GAS CO.
DEMAND PROFILE
-UPDATE-**

2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		2017-2018 Heating Season G004/M-17-		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
FT-A (Cat. 3) (12 months)	8,000	FT-A (Cat. 3) (12 months)	8,000	FT-A (Cat. 3) (12 months)	8,000	0
FT-A (Cat. 1) (12 months)	5,000	FT-A (Cat. 1) (12 months)	5,000	FT-A (Cat. 3) (12 months)	5,000	0
FT-A (November - March)	2,000	FT-A (November - March)	2,000	FT-A (Cat. 3) (November - March)	2,000	0
BP Seasonal (Firm Gas to Chisago) 1/	730	BP Seasonal (Firm Gas to Chisago)	-	BP Seasonal (Firm Gas to Chisago)	-	0
FT-A (November - March)	700	FT-A (November - March)	1,400	FT-A (November - March)	-	(1,400)
				FT-A (Cat. 3) (12 months)	2,500	2,500
				BP Contract (November - March)	1,600	1,600
TFX (12 months)	13,000	TFX (12 months)	13,000	TFX (12 months)	13,000	0
TFX (November - March)	2,000	TFX (November - March)	2,000	TFX (November - March)	2,000	0
TF-12 Base	4,604	TF-12 Base	5,421	TF-12 Base	5,421 4,854	0 (567)
TF-12 Variable	2,931	TF-12 Variable	2,114	TF-12 Variable	2,114 2,681	0 567
TF-5 (November- March)	3,410	TF-5 (November- March)	3,410	TF-5 (November- March)	3,410	0
TFX (November - March)	5,200	TFX (November - March)	5,200	TFX (November - March)	5,200	0
TFX - Negotiated (November - March)	1,000	TFX - Negotiated (November - March)	1,000	TFX - Negotiated (November - March)	1,000	0
TFX (Annual)	2,000	TFX (Annual)	2,000	TFX (Annual) 2/	2,000	0
TFX - Capacity Release	(1,300)	TFX - Capacity Release	(1,000)	TFX - Capacity Release	-	1,000
		TF-12 - Capacity Release	(300)	TF-12 - Capacity Release	-	300
FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	0
Heating Season Total Capacity	33,545	Heating Season Total Capacity	34,245	Heating Season Total Capacity 3/	35,345 34,445	-1,400 200
Non-Heating Season Total Capacity	22,535	Non-Heating Season Total Capacity	22,535	Non-Heating Season Total Capacity	22,535	0
Total Entitlement (Including Peak Shaving)	33,545	Total Entitlement	34,245	Total Entitlement 3/	35,345 34,445	-1,400 200
Total Annual Transportation	22,535	Total Annual Transportation	22,535	Total Annual Transportation 3/	23,735 21,235	-1,200 (1,300)
Total Season Transportation	11,010	Total Season Transportation	11,710	Total Season Transportation	11,610 13,210	(100) 1,500
Percent TF-5	31.16%	Percent TF-5	31.16%	Percent TF-5	31.16%	0.00%
Total Percent Seasonal	32.82%	Total Percent Seasonal	34.19%	Total Percent Seasonal	32.85% 38.35%	-4.34% 4.16%

1/ Does not impact demand profile.

2/ Demand profile includes 700 dk: Remaining 1,300 dk used to deliver gas to Viking interconnect at Chisago for 1,300 dk FT-A (12 Months) "back-haul" contract to Vergas, MN.

3/ Includes 700 dk of total 2,000 dk from TFX (Annual) contract for capacity and demand profile calculation.

GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2017
NORTH DISTRICT
-UPDATE-

	Last Rate Case 1/	Last Demand Change 2/	July 2017 PGA Rates	November 207 PGA Rates	% Change from			Change from July 2017 Rates
					Last Rate Case	Last Demand Change	July 2017 Rates	
Residential								
Commodity Cost of Gas 4/	\$2.60630	\$2.94760	\$2.95690	\$2.95690 \$3.06040	13.5% 17.4%	0.3% 3.8%	0.0% 3.5%	\$0.00000 \$0.10350
Demand Cost of Gas	1.18900	1.63600	1.26110	\$1.29570 \$1.26770	9.0% 6.6%	-20.8% -22.5%	2.7% 0.5%	0.03460 0.00660
Commodity Margin 5/	2.25960	2.02620	2.27353	2.27353 2.419223	0.6% 7.1%	12.2% 19.4%	0.0% 6.4%	0.00000 0.14570
Total Rate	\$6.05490	\$6.60980	\$6.49153	\$6.52613 \$6.74733	7.8% 11.4%	-1.3% 2.1%	0.5% 3.9%	\$0.03460 \$0.25580
Average Annual Usage (dk)	77.9	77.9	77.9	77.9				
Average Annual Cost of Gas	\$471.68	\$514.90	\$505.69	\$508.39 \$525.62	7.8% 11.4%	-1.3% 2.1%	0.5% 3.9%	\$2.70 \$19.93
Firm General Service								
Commodity Cost of Gas 4/	\$2.60630	\$2.94760	\$2.95690	\$2.95690 \$3.06040	13.5% 17.4%	0.3% 3.8%	0.0% 3.5%	\$0.00000 \$0.10350
Demand Cost of Gas	1.18900	1.63600	1.26110	\$1.29570 \$1.26770	9.0% 6.6%	-20.8% -22.5%	2.7% 0.5%	0.03460 0.00660
Commodity Margin 5/	1.84870	1.65710	1.86263	1.86263 1.97153	0.8% 6.6%	12.4% 19.0%	0.0% 5.8%	0.00000 0.10890
Total Rate	\$5.64400	\$6.24070	\$6.08063	\$6.11523 \$6.29963	8.3% 11.6%	-2.0% 0.9%	0.5% 3.6%	\$0.03460 \$0.21900
Average Annual Usage (dk)	434.4	434.4	434.4	434.4				
Average Annual Cost of Gas	\$2,451.75	\$2,710.96	\$2,641.43	\$2,656.46 \$2,736.56	8.3% 11.6%	-2.0% 0.9%	0.5% 3.6%	\$15.03 \$95.13
Customer Class								
	Commodity Change		Demand Change		Total Change		Average Annual	
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)	Bill Change	
Residential	\$0.00000 \$0.10350	0.0% 3.5%	\$0.03460 0.0066	2.7% 0.5%	\$0.03460 \$0.25580	0.5% 3.9%	\$2.70 \$8.58	
Firm General Service	0.00000 \$0.10350	0.0% 3.5%	0.03460 0.0066	2.7% 0.5%	0.03460 0.21900	0.5% 3.6%	\$15.03 \$95.13	

1/ Consolidated Base Cost of Gas effective July 1, 2017 in update to Docket No. G004/MR-16-834. Commodity margin effective January 1, 2017 in Docket No. G004/GR-15-879.

2/ Demand in Docket No. G004/AA-16-885, effective November 1, 2016. Commodity Margin includes interim adjustment of 17.671% effective January 1, 2016 - Docket No. G004/GR-15-879.

3/ Consolidated commodity and demand costs proposed in Docket No. G004/M-17-521 effective November 1, 2017.

4/ Historical periods include GCR rate of \$0.0762 (effective September 1, 2016 - Docket No. G004/AA-16-719); November includes GCR rate of \$0.1748 (effective September 1, 2017 - Docket No. G004/AA-17-493).

5/ Historical periods include CCRA of \$0.2125 (effective January 1, 2017 - Docket No. G004/M-16-384) and GAP of \$0.01393 (effective June 1, 2017 - Docket No. G004/M-16-495); November includes CCRA of \$0.2097 (effective September 1, 2017 - Docket No. G004/M-17-338), GAP of \$0.01393, GUIC of \$0.1485 for residential and \$0.1117 for firm general (effective November 1, 2017 - Docket No. G004/M-16-1066).

GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2017
SOUTH DISTRICT
-UPDATE-

	Last Rate Case 1/	Last Demand Change 2/	July 2017 PGA Rates	November 207 PGA Rates	% Change from				Change from July 2017 Rates
					Last Rate Case	Last Demand Change	July 2017 Rates		
Residential									
Commodity Cost of Gas 4/	\$2.69280	\$3.04810	\$3.04340	\$3.04340 \$3.06040	13.0% 13.7%	-0.2% 0.4%	0.0% 0.6%	\$0.00000 \$0.01700	
Demand Cost of Gas	1.18900	1.23410	1.26110	1.29570 1.26770	9.0% 6.6%	5.0% 2.7%	2.7% 0.5%	0.03460 0.00660	
Commodity Margin 5/	1.75920	1.57430	1.77313	1.77313 1.91883	0.8% 9.1	12.6% 21.9%	0.0% 8.2%	0.00000 0.14570	
Total Rate	\$5.64100	\$5.85650	\$6.07763	\$6.11223 \$6.24693	8.4% 10.7%	4.4% 6.7%	0.6% 2.8%	\$0.03460 \$0.16930	
Average Annual Usage (dk)	77.9	77.9	77.9	77.9					
Average Annual Cost of Gas	\$439.43	\$456.22	\$473.45	\$476.14 \$486.64	8.4% 10.7%	4.4% 6.7%	0.6% 2.8%	\$2.69 \$13.19	
Firm General Service									
Commodity Cost of Gas 4/	\$2.69280	\$3.04810	\$3.04340	\$3.04340 \$3.06040	13.0% 13.7%	-0.2% 0.4%	0.0% 0.6%	\$0.00000 \$0.01700	
Demand Cost of Gas	1.18900	1.23410	1.26110	1.29570 1.26770	9.0% 6.6%	5.0% 2.7%	2.7% 0.5%	0.03460 0.00660	
Commodity Margin 5/	1.47070	1.28270	1.48463	1.48463 1.59353	0.9% 8.4%	15.7% 24.2%	0.0% 7.3%	0.00000 0.10890	
Total Rate	\$5.35250	\$5.56490	\$5.78913	\$5.82373 \$5.92163	8.8% 10.6%	4.7% 6.4%	0.6% 2.3%	\$0.03460 \$0.13250	
Average Annual Usage (dk)	434.4	434.4	434.4	434.4					
Average Annual Cost of Gas	\$2,325.13	\$2,417.39	\$2,514.80	\$2,529.83 \$2,572.36	8.8% 10.6%	4.7% 6.4%	0.6% 2.3%	\$15.03 \$57.56	
Customer Class									
	Commodity Change		Demand Change		Total Change		Average Annual Bill Change		
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)			
Residential	\$0.00000 \$0.01700	0.0% 0.6%	\$0.03460 \$0.00660	2.7% 0.5%	\$0.03460 \$0.16930	0.6% 2.8%	\$2.69 \$13.19		
Firm General Service	0.00000 0.01700	0.0% 0.6%	0.03460 0.00660	2.7% 0.5%	0.03460 0.16930	0.6% 2.3%	\$15.03 \$57.56		

1/ Consolidated Base Cost of Gas effective July 1, 2017 in update to Docket No. G004/MR-16-834. Commodity margin effective January 1, 2017 in Docket No. G004/GR-15-879.

2/ Demand in Docket No. G004/AA-16-885, effective November 1, 2016; Commodity Margin includes interim adjustment of 17.671% effective January 1, 2016 - Docket No. G004/GR-15-879.

3/ Consolidated commodity and demand costs proposed in Docket No. G004/M-17-521 effective November 1, 2017.

4/ Historical periods include GCR rate of \$0.1627 (effective September 1, 2016 - Docket No. G004/AA-16-719);

November includes GCR rate of \$0.1748 (effective September 1, 2017 - Docket No. G004/AA-17-493).

5/ Historical periods include CCRA of \$0.2125 (effective January 1, 2017 - Docket No. G004/M-16-384) and GAP of \$0.01393 (effective June 1, 2017 - Docket No. G004/M-16-495); November includes CCRA of \$0.2097 (Docket No. G004-M-17-338), GAP of \$0.01393, GUIC of \$0.1485 for residential and \$0.1117 for firm general (effective November 1, 2017 - Docket No. G004/M-16-1066).

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT ANALYSIS
-UPDATE-**

Heating Season	Number of Firm Customers			Design Day Requirement			Total Entitlement + Storage + Peak Shaving			
	(1) Number of Customers	(2) Change From Previous Year	(3) % Change From Previous Year	(4) Design Day (dk)	(5) Change From Previous Year	(6) % Change From Previous Year	(7) Total Entitlement (dk)	(8) Change From Previous Year	(9) % Change From Previous Year	(10) % of Reserve Margin [(7)-(4)]/(4)
2017-2018	23,997			32,733			35,345	34,445		8.0% 5.2%
Annual Average			0.00%			0.00%			0.00%	8.0% 5.2%

Heating Season	Firm Peak Day Sendout			(14) Excess Per Customer [(7)-(4)]/(1)	(15) Design Day per Customer (4)/(1)	(16) Entitlement per Customer (7)/(1)	(17) Peak Day Sendout per Customer (11)/(1)
	(11) Firm Peak Day Sendout (dk)	(12) Change From Previous Year	(13) % Change From Previous Year				
2017-2018	0			0.1088	0.0713	1.3640	1.4729 1.4354
Annual Average			0.00%	0.1088	0.0713	1.3640	1.4729 1.4354