



705 West Fir Ave.
PO Box 176
Fergus Falls, MN 56538-0176
1-877-267-4764

October 31, 2016

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-16-557
Informational Update Filing on Great Plains' 2016 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, 2016 (June 30 DEQ) in the above referenced docket.

NORTH DISTRICT:

In the June 30 DEQ filing, Great Plains proposed to increase the North District capacity by 650 dk per day. Great Plains proposed to replace the capacity and delivered gas provided under the 2015-2016 contracts (700 dk per day of seasonal capacity from Viking along with the contract for 730 dk of firm gas delivered to Vikings' Chisago receipt point from a current gas supplier) with 1,350 dk per day of incremental capacity on Viking. Great Plains now reports 1,400 dk per day of seasonal capacity was procured from Viking which increases the North District capacity by 700 dk per day over the 2015-2016 heating season capacity and results in a reserve percentage of 5.4% as shown on Exhibit B.

Table 1
North District Change to Initial Filing

North District	Initial Filing (Dk)	Change (Dk)	Update (Dk)
Viking FT-A Seasonal	1,350	50	1,400

Table 2
North District Updated Demand Costs

Interstate Pipelines	Volumes (1) Dk/day	Rates (2) \$	Months (3)	Demand Costs (4) \$
Viking				
FT-A - Zone 1-1 (Cat. 3)	8,000	\$4.3706	12	419,578
FT-A - Zone 1-1 (Cat. 1)	5,000	4.7507	5	118,767
FT-A Seasonal	2,000	4.7507	5	47,507
FT-A Seasonal	1,400	4.7507	5	33,255
NNG				
TFX Seasonal	2,000	15.1530	5	151,530
TFX - Winter	13,000	15.1530	5	984,945
TFX - Summer	13,000	5.6830	7	517,153
Total Demand Charges				<u>\$2,272,735</u>

The total customer impact of the updated demand profile compared to rates effective June 1, 2016 is a decrease of \$0.0143 per dk as shown on Exhibit C. Please see Table 3 below for the annual rate impacts for the North District, as originally filed and reflecting the changes noted above.

Table 3
North District Annual Demand Rate Impacts

Filing	Residential Customer (103.8 Dk)	Total Change Res (%)	Firm General Service (375.7 Dk)	Total Change FGS (%)
June 30, 2016	(\$1.56)	-0.9	(\$5.68)	-0.9
November 1, 2016	(\$1.48)	-0.9	(\$5.38)	-0.9

SOUTH DISTRICT:

As discussed in the June 30 DEQ filing and in Great Plains' Reply Comments in this Docket, which were filed on September 23, 2016, Great Plains entered a 10-year agreement for 2,000 dk per day annual capacity on Northern Natural's system which exceeded its current requirements for firm deliverability. Therefore, Great Plains released 1,300 dk per day at \$0.22 per dk of excess capacity for the 2015-2016 heating season to a third-party marketer. This capacity release expired and Great Plains proposed to again release 1,300 dk per day of excess capacity at \$0.22 per dk for the 2016-2017 heating season.

Great Plains now reports it has released 1,000 dk per day at \$0.17 per dk of excess capacity for the upcoming heating season. Net of this released capacity, the South District reserve margin for the 2016-2017 heating season is 7.7 percent, as shown on Exhibit B.

Great Plains contacted several marketers and received a bid for \$0.17 per dk. Great Plains then posted a pre-arranged, biddable capacity release on the shipper's website. There were no higher bids received; therefore, Great Plains entered into a contract to release 1,000 dk per day at the bid price of \$0.17 per dk from November 1, 2016 through March 31, 2017.

Great Plains is working to release another 300 dk per day from December 1, 2016 - March 31, 2017. The effect of this additional capacity release would lower the South District reserve margin to the 6.0% originally proposed in the June DEQ filing. Great Plains will update the Department when this capacity release is finalized.

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 2016-2017 season. Great Plains was informed that Northern is increasing the TF12 Base by 817 dk to 5,421 dk per day, while decreasing the TF12 Variable by 817 dk to 2,114 dk per day. This new allocation will be effective November 1, 2016.

Table 4
South District Changes to Initial Filing

South District	Initial Filing (Dk)	Change (Dk)	Update (Dk)
TF12 Base	4,604	817	5,421
TF12 Variable	2,931	(817)	2,114
Capacity Release	1,300	(300)	1,000

Table 5
South District Updated Demand Costs

Interstate Pipelines	Volumes (1) Dk/day	Rates (2) \$	Months (3)	Demand Costs (4) \$
Viking				
FT-A - Zone 1-1 (Cat. 1)	5,000	4.7507	7	166,275
NNG				
TF12 Base - Summer	5,421	\$5.6830	7	215,653
TF12 Base - Winter	5,421	10.2300	5	277,284
TF12 Variable - Summer	2,114	5.6830	7	84,097
TF12 Variable - Winter	2,114	13.8660	5	146,564
TF5	3,410	15.1530	5	258,359
TFX - Summer	2,000	5.6830	7	79,562
TFX - Winter	7,200	15.1530	5	545,508
TFX Negotiated Contract	1,000	26.8918	5	134,459
TFX - Capacity Release	(1,000)	1/	5	(25,670)
FDD-1 Reservation	4,640	1.7140	12	<u>95,436</u>
Total Demand Charges				<u><u>\$1,977,527</u></u>
1/ Contract terms are 1,000 dk/day at \$0.17/dk for the period November 1, 2016 through March 31, 2017.				

The customer impact of the updated demand profile compared to rates effective May 1, 2016 is a decrease of \$0.0017 per dk as shown on Exhibit C. Please see Table 6 below for the annual rate impacts for the South District, as originally filed and reflecting the changes noted above.

Table 6
South District Annual Demand Rate Impacts

Filing	Residential Customer (88.2 Dk)	Total Change Res (%)	Firm General Service (340.9 Dk)	Total Change FGS (%)
June 30, 2016	\$0.00	0.0	\$0.00	0.0
November 1, 2016	\$0.15	0.1	\$0.58	0.1

Great Plains filed an Application for Authority to Increase Natural Gas Rates in Minnesota, Docket No. G004/GR-15-879, in which the Company proposed to combine the two districts into one. As such, the updated reserve margin on a combined basis, for the 2016-2017 heating season is 6.6% as shown on Exhibit B.

Great Plains' analysis indicates that the portfolio in place for the 2016-2017 heating season will allow the Company to adequately serve customers.

In support of updating Docket No. G004/M-16-557, Great Plains has updated the following exhibits to show the impact of the changes listed above.

- Exhibit A – Demand Profile
- Exhibit B – Design Day Capacity
- 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 2016 - 2017 HEATING SEASON
DEMAND PROFILE EFFECTIVE NOVEMBER 1, 2016
-UPDATE-

<u>Type of Capacity or Entitlement</u>	<u>Current Amount</u>	<u>Proposed Change</u>	<u>Proposed Amount</u>	<u>Contract Length</u>	<u>Expiration Date</u>
<u>Demand Profile for North District (dk) 1/</u>					
FT-A	8,000	0	8,000	5 years	10/31/17
FT-A - Zone 1-1 (November - March)	5,000	0	5,000	1 year	10/31/17
FT-A Seasonal (November - March)	2,000	0	2,000	1 year	10/31/17
FT-A (November - March)	0	1,400	1,400	5 months	3/31/17
FT-A Seasonal (November - March)	700	(700)	0	5 months	3/31/16
Subtotal	15,700	700	16,400		
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
BP Seasonal Contract	730	(730)	0	5 months	3/31/16
Heating Season Total Capacity:	15,700	700	16,400		
Non-Heating Season Total Capacity:	8,000	0	8,000		
Forecasted Heating Season Design Day:	15,409	147	15,556		
Estimated Non-Heating Season Design Day:	8,741	60	8,801		
Heating Season Capacity: Surplus/(Shortage)	291	553	844		
Non-Heating Season Capacity: Surplus/(Shortage)	(741)	(60)	(801)		
<u>Demand Profile for South District (dk):</u>					
TF12 Base (Summer & Winter)	4,604	817	5,421	5 years	10/31/19
TF12 Variable (Summer & Winter)	2,931	(817)	2,114	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	0	2,000	10 years	10/31/25
Proposed: TFX Seasonal - Capacity Release	0	(1,000)	(1,000)	5 months	3/31/17
TFX Seasonal - Capacity Release	(1,300)	1,300	0	5 months	3/31/16
Subtotal	17,845	300	18,145		
FT-A - Zone 1-1 (April - October)	5,000	0	5,000	1 year	10/31/17
FDD-1 Reservation	4,640	0	4,640	5 years	5/31/20
Heating Season Total Capacity:	17,845	300	18,145		
Non-Heating Season Total Capacity:	14,535	0	14,535		
Forecasted Heating Season Design Day:	16,858	(16)	16,842		
Estimated Non-Heating Season Design Day:	9,036	(6)	9,030		
Heating Season Capacity: Surplus/(Shortage)	987	316	1,303		
Non-Heating Season Capacity: Surplus/(Shortage)	5,499	6	5,505		

1/ Minnesota North District communities plus Wahpeton, ND.

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

2014-2015 Heating Season G004/M-14-563		2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
FT-A (12 months)	8,000	FT-A (12 months)	8,000	FT-A (12 months)	8,000	0
FT-A (November through March)	5,000	FT-A (November through March)	5,700	FT-A (November through March)	5,000	(700)
BP Seasonal (Firm Gas to TBS)	500	BP Seasonal (Firm Gas to TBS)	-	BP Seasonal (Firm Gas to TBS)	-	0
TFX (November through March)	2,000	TFX (November through March)	2,000	TFX (November through March)	2,000	0
TFX (12 months)	13,000	TFX (12 months)	13,000	TFX (12 months)	13,000	0
FT-A (November through March)	2,000	FT-A (November through March)	2,000	FT-A (November through March)	2,000	0
		BP Seasonal (Firm Gas to Chisago) 1/	730	BP Seasonal (Firm Gas to Chisago) 1/	-	0
				FT-A (November - March)	1,400	1,400
Heating Season Total Capacity	15,500	Heating Season Total Capacity	15,700	Heating Season Total Capacity	16,400	700
Non-Heating Season Total Capacity	8,000	Non-Heating Season Total Capacity	8,000	Non-Heating Season Total Capacity	8,000	0
Total Entitlement (Including Peak Shaving)	15,500	Total Entitlement	15,700	Total Entitlement	16,400	700
Total Annual Transportation	8,000	Total Annual Transportation	8,000	Total Annual Transportation	8,000	0
Total Season Transportation	7,000	Total Season Transportation	7,700	Total Season Transportation	8,400	700
Total Percent Seasonal	45.16%	Total Percent Seasonal	49.04%	Total Percent Seasonal	51.22%	2.18%

1/ Does not impact demand profile.

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

2014-2015 Heating Season G004/M-14-563		2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
TF-12 Base	5,100	TF-12 Base	4,604	TF-12 Base	5,421	817
TF-12 Variable	2,435	TF-12 Variable	2,931	TF-12 Variable	2,114	(817)
FT-A (April through October)	5,000	FT-A (April through October)	5,000	FT-A (April through October)	5,000	0
TF-5 (November through March)	3,410	TF-5 (November through March)	3,410	TF-5 (November through March)	3,410	0
TFX (November through March)	6,200	TFX (November through March)	6,200	TFX (November through March)	6,200	0
		TFX (Annual)	2,000	TFX (Annual)	2,000	0
		TFX - Capacity Release	(1,300)	TFX - Capacity Release	(1,000)	300
FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	0
Heating Season Total Capacity	17,145	Heating Season Total Capacity	17,845	Heating Season Total Capacity	18,145	300
Non-Heating Season Total Capacity	12,535	Non-Heating Season Total Capacity	14,535	Non-Heating Season Total Capacity	14,535	0
Total Entitlement (Including Peak Shaving)	17,145	Total Entitlement	17,845	Total Entitlement	18,145	300
Total Annual Transportation	7,535	Total Annual Transportation	9,535	Total Annual Transportation	9,535	0
Total Season Transportation	9,610	Total Season Transportation	10,310	Total Season Transportation	10,610	300
Percent TF-5	31.16%	Percent TF-5	31.16%	Percent TF-5	31.16%	0.00%
Total Percent Seasonal	56.05%	Total Percent Seasonal	57.78%	Total Percent Seasonal	58.47%	0.69%

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2016 - 2017 HEATING SEASON
DESIGN DAY - NOVEMBER 2016
-UPDATE-**

Area	Customer Factors 1/			Design HDD 2/	No. of Customers 3/	Projected Customers 4/	Peak/ Customer	Projected	L&UA 5/	Projected	Capacity	Reserve
	Dk/day	Dk/DD	RSqr					Peak Day (dk)		Design		
Crookston	0.03961	0.01374	0.97169	96	2,501	2,530	1.35865	3,438	24	3,462		
North 4	0.05577	0.01330	0.96137	91	7,075	7,127	1.26607	9,020	63	9,083		
Wahpeton	0.07470	0.01413	0.98257	91	2,170	2,197	1.36053	2,990	21	3,011		
Total North District					11,746	11,854		15,448	108	15,556	16,400	5.4%
South 13	0.05233	0.01622	0.97828	83	11,884	11,959	1.39859	16,725	117	16,842	18,145	7.7%
Total					23,630	23,813		32,173	225	32,398	34,545	6.6%

1/ Use per customer factors based on regression analysis for the 36 months ending March 2016.

2/ Design Heating Degree Days Base 60 degrees F.

3/ Reflects monthly average for December 2015 - February 2016.

4/ Customer growth is based on regression analysis for the 36 months ending March 2016 with composite growth rates of: Crookston = 1.30%, North = 0.85%, Wahpeton = 1.21%, South = 0.70%.

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

**GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2016
NORTH DISTRICT
-UPDATE-**

	Last Rate Case 1/	Last Demand Change 2/	June 2016 PGA	November 2016 PGA	% Change from			Change from June 2016 Rates
					Last Rate Case	Last Demand Change	June 2016 Rates	
Residential								
Commodity Cost of Gas	\$3.1328	\$2.4418	\$1.9588	\$2.8714	-8.3%	17.6%	46.6%	\$0.9126
Demand Cost of Gas	1.5215	1.6118	1.6503	1.6360	7.5%	1.5%	-0.9%	(0.0143)
Commodity Margin 3/	1.7207	1.7207	1.7207	1.7207	0.0%	0.0%	0.0%	0.0000
Total Rate	6.3750	5.7743	5.3298	6.2281	-2.3%	7.9%	16.9%	0.8983
Average Annual Usage (dk)	103.8	103.8	103.8	103.8				
Average Annual Cost of Gas	\$661.73	\$599.37	\$553.23	\$646.48	-2.3%	7.9%	16.9%	\$93.25
Firm General Service								
Commodity Cost of Gas	\$3.1328	\$2.4418	\$1.9588	\$2.8714	-8.3%	17.6%	46.6%	\$0.9126
Demand Cost of Gas	1.5215	1.6118	1.6503	1.6360	7.5%	1.5%	-0.9%	(0.0143)
Commodity Margin 3/	1.4071	1.4071	1.4071	1.4071	0.0%	0.0%	0.0%	0.0000
Total Rate	6.0614	5.4607	5.0162	5.9145	-2.4%	8.3%	17.9%	0.8983
Average Annual Usage (dk)	375.7	375.7	375.7	375.7				
Average Annual Cost of Gas	\$2,277.27	\$2,051.58	\$1,884.59	\$2,222.08	-2.4%	8.3%	17.9%	\$337.49
Customer Class	<u>Commodity Change</u>		<u>Demand Change</u>		<u>Total Change</u>		<u>Average Annual</u>	
	<u>(\$/dk)</u>	<u>(Percent)</u>	<u>(\$/dk)</u>	<u>(Percent)</u>	<u>(\$/dk)</u>	<u>(Percent)</u>	<u>Bill Change</u>	
Residential	\$0.9126	46.6%	(\$0.0143)	-0.9%	\$0.8983	16.9%	\$93.25	
Firm General Service	0.9126	46.6%	(0.0143)	-0.9%	0.8983	17.9%	\$337.49	

1/ Base Cost of Gas Effective January 1, 2016 in Docket No. G004/MR-15-878 or Docket No. G004/MR-16-834.

2/ Demand in Docket No. G004/AA-15-951, effective November 1, 2015.

3/ Includes CCRA and GAP. CCRC change of \$0.304 and CCRA change of (\$0.0304) effective January 1, 2016 - Docket No. G004/GR-15-879.

**GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2016
SOUTH DISTRICT
-UPDATE-**

	Last Rate Case 1/	Last Demand Change 2/	May 2016 PGA 4/	November 2016 PGA	% Change from			Change from May 2016 Rates
					Last Rate Case	Last Demand Change	May 2016 Rates	
Residential								
Commodity Cost of Gas	\$3.2123	\$2.5794	\$2.0658	\$2.8854	-10.2%	11.9%	39.7%	\$0.8196
Demand Cost of Gas	1.2379	1.3854	1.2324	1.2341	-0.3%	-10.9%	0.1%	0.0017
Commodity Margin 3/	1.3367	1.3367	1.3367	1.3367	0.0%	0.0%	0.0%	0.0000
Total Rate	5.7869	5.3015	4.6349	5.4562	-5.7%	2.9%	17.7%	0.8213
Average Annual Usage (dk)	88.2	88.2	88.2	88.2				
Average Annual Cost of Gas	\$510.40	\$467.59	\$408.80	\$481.24	-5.7%	2.9%	17.7%	\$72.44
Firm General Service								
Commodity Cost of Gas	\$3.2123	\$2.5794	\$2.0658	\$2.8854	-10.2%	11.9%	39.7%	\$0.8196
Demand Cost of Gas	1.2379	1.3854	1.2324	1.2341	-0.3%	-10.9%	0.1%	0.0017
Commodity Margin 3/	1.0889	1.0889	1.0889	1.0889	0.0%	0.0%	0.0%	0.0000
Total Rate	5.5391	5.0537	4.3871	5.2084	-6.0%	3.1%	18.7%	0.8213
Average Annual Usage (dk)	340.9	340.9	340.9	340.9				
Average Annual Cost of Gas	\$1,888.28	\$1,722.81	\$1,495.56	\$1,775.54	-6.0%	3.1%	18.7%	\$279.98
Customer Class								
	Commodity Change		Demand Change		Total Change		Average Annual Bill Change	
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)		
Residential	\$0.8196	39.7%	\$0.0017	0.1%	\$0.8213	17.7%	\$72.44	
Firm General Service	0.8196	39.7%	0.0017	0.1%	0.8213	18.7%	\$279.98	

1/ Base Cost of Gas Effective January 1, 2016 in Docket No. G004/MR-15-878 or Docket No. G004/MR-16-834.

2/ Demand in Docket No. G004/AA-15-1011, effective December 1, 2015.

3/ Includes CCRA and GAP. CCRC change of \$0.304 and CCRA change of (\$0.0304) effective January 1, 2016 - Docket No. G004/GR-15-879.

4/ Great Plains did not file a South District PGA for June 2016.

**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				0.0712	1.3123	1.3835	
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			1.49%	0.0943	1.4322	1.5264	1.1405

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%	18,145	300	1.68%	7.74%
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%			0.44%	5.70%

Heating Season	Firm Peak Day Sendout			(14)	(15)	(16)	(17)
	(11) Firm Peak Day Sendout (dk)	(12) Change From Previous Year	(13) % Change From Previous Year	Excess Per Customer [(7)-(4)]/(1)	Design Day per Customer (4)/(1)	Entitlement per Customer (7)/(1)	Peak Day Sendout per Customer (11)/(1)
2016-2017				0.1090	1.4083	1.5173	
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			0.25%	0.0808	1.4573	1.5382	1.2245

GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2016 - 2017 HEATING SEASON
DEMAND PROFILE EFFECTIVE NOVEMBER 1, 2016
-UPDATE-

<u>Type of Capacity or Entitlement</u>	<u>Current Amount</u>	<u>Proposed Change</u>	<u>Proposed Amount</u>	<u>Contract Length</u>	<u>Expiration Date</u>
<u>Demand Profile for North District (dk) 1/</u>					
FT-A	8,000	0	8,000	5 years	10/31/17
FT-A - Zone 1-1 (November - March)	5,000	0	5,000	1 year	10/31/17
FT-A Seasonal (November - March)	2,000	0	2,000	1 year	10/31/17
FT-A (November - March)	0	1,350 1,400	1,350 1,400	5 months	3/31/17
FT-A Seasonal (November - March)	700	(700)	0	5 months	3/31/16
Subtotal	15,700	650 700	16,350 16,400		
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
BP Seasonal Contract	730	(730)	0	5 months	3/31/16
Heating Season Total Capacity:	15,700	650 700	16,350 16,400		
Non-Heating Season Total Capacity:	8,000	0	8,000		
Forecasted Heating Season Design Day:	15,409	147	15,556		
Estimated Non-Heating Season Design Day:	8,741	60	8,801		
Heating Season Capacity: Surplus/(Shortage)	291	503 553	794 844		
Non-Heating Season Capacity: Surplus/(Shortage)	(741)	(60)	(801)		
<u>Demand Profile for South District (dk):</u>					
TF12 Base (Summer & Winter)	4,604	0 817	4,604 5,421	5 years	10/31/19
TF12 Variable (Summer & Winter)	2,931	0 (817)	2,931 2,114	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	0	2,000	10 years	10/31/25
Proposed: TFX Seasonal - Capacity Release	0	(1,300) 1,000	(1,300) 1,000	5 months	3/31/17
TFX Seasonal - Capacity Release	(1,300)	1,300	0	5 months	3/31/16
Subtotal	17,845	0 300	17,845 18,145		
FT-A - Zone 1-1 (April - October)	5,000	0	5,000	1 year	10/31/17
FDD-1 Reservation	4,640	0	4,640	5 years	5/31/20
Heating Season Total Capacity:	17,845	0 300	17,845 18,145		
Non-Heating Season Total Capacity:	14,535	0	14,535		
Forecasted Heating Season Design Day:	16,858	(16)	16,842		
Estimated Non-Heating Season Design Day:	9,036	(6)	9,030		
Heating Season Capacity: Surplus/(Shortage)	987	16 316	1,003 1,303		
Non-Heating Season Capacity: Surplus/(Shortage)	5,499	6	5,505		

1/ Minnesota North District communities plus Wahpeton, ND.

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

2014-2015 Heating Season G004/M-14-563		2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
FT-A (12 months)	8,000	FT-A (12 months)	8,000	FT-A (12 months)	8,000	0
FT-A (November through March)	5,000	FT-A (November through March)	5,700	FT-A (November through March)	5,000	(700)
BP Seasonal (Firm Gas to TBS)	500	BP Seasonal (Firm Gas to TBS)	-	BP Seasonal (Firm Gas to TBS)	-	0
TFX (November through March)	2,000	TFX (November through March)	2,000	TFX (November through March)	2,000	0
TFX (12 months)	13,000	TFX (12 months)	13,000	TFX (12 months)	13,000	0
FT-A (November through March)	2,000	FT-A (November through March)	2,000	FT-A (November through March)	2,000	0
		BP Seasonal (Firm Gas to Chisago) 1/	730	BP Seasonal (Firm Gas to Chisago) 1/	-	0
				FT-A (November - March)	1,350 1,400	1,350 1,400
Heating Season Total Capacity	15,500	Heating Season Total Capacity	15,700	Heating Season Total Capacity	16,350 16,400	650 700
Non-Heating Season Total Capacity	8,000	Non-Heating Season Total Capacity	8,000	Non-Heating Season Total Capacity	8,000	0
Total Entitlement (Including Peak Shaving)	15,500	Total Entitlement	15,700	Total Entitlement	16,350 16,400	650 700
Total Annual Transportation	8,000	Total Annual Transportation	8,000	Total Annual Transportation	8,000	0
Total Season Transportation	7,000	Total Season Transportation	7,700	Total Season Transportation	7,000 8,400	(700) 700
Total Percent Seasonal	45.16%	Total Percent Seasonal	49.04%	Total Percent Seasonal	42.81% 51.22%	-6.23% 2.18%

1/ Does not impact demand profile.

GREAT PLAINS NATURAL GAS CO.
DEMAND PROFILE
SOUTH DISTRICT
-UPDATE-

2014-2015 Heating Season G004/M-14-563		2015-2016 Heating Season G004/M-15-645		2016-2017 Heating Season G004/M-16-557		Difference
	Quantity (dk)		Quantity (dk)		Quantity (dk)	
TF-12 Base	5,100	TF-12 Base	4,604	TF-12 Base	4,604 5,421	0 817
TF-12 Variable	2,435	TF-12 Variable	2,931	TF-12 Variable	2,931 2,114	0 (817)
FT-A (April through October)	5,000	FT-A (April through October)	5,000	FT-A (April through October)	5,000	0
TF-5 (November through March)	3,410	TF-5 (November through March)	3,410	TF-5 (November through March)	3,410	0
TFX (November through March)	6,200	TFX (November through March)	6,200	TFX (November through March)	6,200	0
		TFX (Annual)	2,000	TFX (Annual)	2,000	0
		TFX - Capacity Release	(1,300)	TFX - Capacity Release	(1,300) (1,000)	0 300
FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	FDD-1 Reservation	4,640	0
Heating Season Total Capacity	17,145	Heating Season Total Capacity	17,845	Heating Season Total Capacity	17,845 18,145	0 300
Non-Heating Season Total Capacity	12,535	Non-Heating Season Total Capacity	14,535	Non-Heating Season Total Capacity	14,535	0
Total Entitlement (Including Peak Shaving)	17,145	Total Entitlement	17,845	Total Entitlement	17,845 18,145	0 300
Total Annual Transportation	7,535	Total Annual Transportation	9,535	Total Annual Transportation	9,535	0
Total Season Transportation	9,610	Total Season Transportation	10,310	Total Season Transportation	10,310 10,610	0 300
Percent TF-5	31.16%	Percent TF-5	31.16%	Percent TF-5	31.16%	0.00%
Total Percent Seasonal	56.05%	Total Percent Seasonal	57.78%	Total Percent Seasonal	57.78% 58.47%	0.00% 0.69%

**GREAT PLAINS NATURAL GAS CO.
DEMAND ENTITLEMENT FILING 2016 - 2017 HEATING SEASON
DESIGN DAY - NOVEMBER 2016
-UPDATE-**

Area	Customer Factors 1/			Design HDD 2/	No. of Customers 3/	Projected Customers 4/	Peak/ Customer	Projected Peak Day (dk)	L&UA 5/	Projected Design	Capacity	Reserve	
	Dk/day	Dk/DD	RSqr										
Crookston	0.03961	0.01374	0.97169	96	2,501	2,530	1.35865	3,438	24	3,462			
North 4	0.05577	0.01330	0.96137	91	7,075	7,127	1.26607	9,020	63	9,083			
Wahpeton	0.07470	0.01413	0.98257	91	2,170	2,197	1.36053	2,990	21	3,011			
Total North District					11,746	11,854		15,448	108	15,556	46,350	16,400	5.1% 5.4%
South 13	0.05233	0.01622	0.97828	83	11,884	11,959	1.39859	16,725	117	16,842	47,845	18,145	6.0% 7.7%
Total					23,630	23,813		32,173	225	32,398	34,195	34,545	5.5% 6.6%

1/ Use per customer factors based on regression analysis for the 36 months ending March 2016.

2/ Design Heating Degree Days Base 60 degrees F.

3/ Reflects monthly average for December 2015 - February 2016.

4/ Customer growth is based on regression analysis for the 36 months ending March 2016 with composite growth rates of: Crookston = 1.30%, North = 0.85%, Wahpeton = 1.21%, South = 0.70%.

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

**GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2016
NORTH DISTRICT
-UPDATE-**

	Last Rate Case 1/	Last Demand Change 2/	June 2016 PGA	November 2016 PGA	% Change from				Change from June 2016 Rates					
					Last Rate Case	Last Demand Change	June 2016 Rates	Change from June 2016 Rates						
Residential														
Commodity Cost of Gas	\$3.1328	\$2.4418	\$1.9588	1.9588 \$2.8714	-37.5%	-8.3%	-19.8%	17.6%	0.0%	46.6%	\$0.000	\$0.9126		
Demand Cost of Gas	1.5215	1.6118	1.6503	1.6352 1.6360		7.5%		1.5%		-0.9%	(0.0151)	(0.0143)		
Commodity Margin 3/	1.7207	1.7207	1.7207	1.7207		0.0%		0.0%		0.0%		0.0000		
Total Rate	6.3750	5.7743	5.3298	5.3147 6.2281	-16.6%	-2.3%	-8.0%	7.9%	-0.3%	16.9%	(0.0151)	0.8983		
Average Annual Usage (dk)	103.8	103.8	103.8	103.8										
Average Annual Cost of Gas	\$661.73	\$599.37	\$553.23	\$551.67 \$646.48	-16.6%	-2.3%	-8.0%	7.9%	-0.3%	16.9%	(\$1.56)	\$93.25		
Firm General Service														
Commodity Cost of Gas	\$3.1328	\$2.4418	\$1.9588	1.9588 \$2.8714	-37.5%	-8.3%	-19.8%	17.6%	0.0%	46.6%	\$0.000	\$0.9126		
Demand Cost of Gas	1.5215	1.6118	1.6503	1.6352 1.6360		7.5%		1.5%		-0.9%	(0.0151)	(0.0143)		
Commodity Margin 3/	1.4071	1.4071	1.4071	1.4071		0.0%		0.0%		0.0%		0.0000		
Total Rate	6.0614	5.4607	5.0162	5.0011 5.9145	-17.5%	-2.4%	-8.4%	8.3%	-0.3%	17.9%	(0.0151)	0.8983		
Average Annual Usage (dk)	375.7	375.7	375.7	375.7										
Average Annual Cost of Gas	\$2,277.27	\$2,051.58	\$1,884.59	\$1,878.91 \$2,222.08	-17.5%	-2.4%	-8.4%	8.3%	-0.3%	17.9%	(\$5.68)	\$337.49		
Customer Class	<u>Commodity Change</u>		<u>Demand Change</u>		<u>Total Change</u>		<u>Average Annual Bill Change</u>							
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)						
Residential	\$0.0000	\$0.9126	0.0%	46.6%	(\$0.0151)	(\$0.0143)	-0.9%		(\$0.0151)	\$0.8983	-0.3%	16.9%	(\$1.56)	\$93.25
Firm General Service	0.0000	0.9126	0.0%	46.6%	(0.0151)	(0.0143)	-0.9%		(0.0151)	0.8983	-0.3%	17.9%	(\$5.68)	\$337.49

1/ Base Cost of Gas Effective January 1, 2016 in Docket No. G004/MR-15-878 or Docket No. G004/MR-16-834.

2/ Demand in Docket No. G004/AA-15-951, effective November 1, 2015.

3/ Includes CCRA and GAP. CCRC change of \$0.304 and CCRA change of (\$0.0304) effective January 1, 2016 - Docket No. G004/GR-15-879.

GREAT PLAINS NATURAL GAS CO.
RATE EFFECT OF PROPOSED DEMAND - NOVEMBER 1, 2016
SOUTH DISTRICT
-UPDATE-

	Last Rate Case 1/	Last Demand Change 2/	May 2016 PGA 4/	November 2016 PGA	% Change from		May 2016 Rates	Change from May 2016 Rates
					Last Rate Case	Last Demand Change		
Residential								
Commodity Cost of Gas	\$3.2123	\$2.5794	\$2.0658	\$2.0658 \$2.8854	-35.7%	-10.2%	-19.9% 11.9%	\$0.0000 \$0.8196
Demand Cost of Gas	1.2379	1.3854	1.2324	1.2324 1.2341	-0.4%	-0.3%	-11.0% -10.9%	0.0000 0.0017
Commodity Margin 3/	1.3367	1.3367	1.3367	1.3367		0.0%	0.0%	0.0000 0.0000
Total Rate	5.7869	5.3015	4.6349	4.6349 5.4562	-19.9%	-5.7%	-12.6% 2.9%	0.0000 0.8213
Average Annual Usage (dk)	88.2	88.2	88.2	88.2				
Average Annual Cost of Gas	\$510.40	\$467.59	\$408.80	\$408.80 \$481.24	-19.9%	-5.7%	-12.6% 2.9%	\$0.00 \$72.44
Firm General Service								
Commodity Cost of Gas	\$3.2123	\$2.5794	\$2.0658	\$2.0658 \$2.8854	-35.7%	-10.2%	-19.9% 11.9%	\$0.0000 \$0.8196
Demand Cost of Gas	1.2379	1.3854	1.2324	1.2324 1.2341	-0.4%	-0.3%	-11.0% -10.9%	0.0000 0.0017
Commodity Margin 3/	1.0889	1.0889	1.0889	1.0889		0.0%	0.0%	0.0000 0.0000
Total Rate	5.5391	5.0537	4.3871	4.3871 5.2084	-20.8%	-6.0%	-13.2% 3.1%	0.0000 0.8213
Average Annual Usage (dk)	340.9	340.9	340.9	340.9				
Average Annual Cost of Gas	\$1,888.28	\$1,722.81	\$1,495.56	\$1,495.56 \$1,775.54	-20.8%	-6.0%	-13.2% 3.1%	\$0.00 \$279.98
Summary of Changes								
Customer Class	Commodity Change		Demand Change		Total Change		Average Annual Bill Change	
	(\$/dk)	(Percent)	(\$/dk)	(Percent)	(\$/dk)	(Percent)		
Residential	\$0.0000 \$0.8196	0.0% 39.7%	\$0.0000 \$0.0017	0.0% 0.1%	\$0.0000 \$0.8213	0.0% 17.7%	\$0.00 \$72.44	
Firm General Service	0.0000 0.8196	0.0% 39.7%	0.0000 0.0017	0.0% 0.1%	0.0000 0.8213	0.0% 18.7%	0.00 279.98	

1/ Base Cost of Gas Effective January 1, 2016 in Docket No. G004/MR-15-878 or Docket No. G004/MR-16-834.

2/ Demand in Docket No. G004/AA-15-1011, effective December 1, 2015.

3/ Includes CCRA and GAP. CCRC change of \$0.304 and CCRA change of (\$.0304) effective January 1, 2016 - Docket No. G004/GR-15-879.

4/ Great Plains did not file a South District PGA for June 2016.

**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%	46,350	16,400	650	700	4.44%	4.46%	5.40%	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%					2.91%	2.93%	6.58%	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				0.0670	0.0712	1.3123	1.3835	
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			1.49%	0.0941	0.0943	1.4322	1.5264	1.1405

1/1/03 - Data is 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	18,145	0 300	0.00% 1.68%	5.96% 7.74%
2015-2016	12,039	197	1.66%	16,858	546	3.35%	17,845	17,845	700	4.08%	5.85%
2014-2015	11,842	193	1.66%	16,312	1,019	6.66%	17,145	17,145	1,500	9.59%	5.11%
2013-2014	11,649	118	1.02%	15,293	443	2.98%	15,645	15,645	0	0.00%	2.30%
2012-2013	11,531	(13)	-0.11%	14,850	(18)	-0.12%	15,645	15,645	0	0.00%	5.35%
2011-2012	11,544	(8)	-0.07%	14,868	(297)	-1.96%	15,645	15,645	(380)	-2.37%	5.23%
2010-2011	11,552	10	0.09%	15,165	(267)	-1.73%	16,025	16,025	(1,170)	-6.80%	5.67%
2009-2010	11,542	77	0.67%	15,432	156	1.02%	17,195	17,195	(170)	-0.98%	11.42%
2008-2009	11,465	8	0.07%	15,276	(301)	-1.93%	17,365	17,365	0	0.00%	13.68%
2007-2008	11,457	(27)	-0.24%	15,577	(117)	-0.75%	17,365	17,365	0	0.00%	11.48%
2006-2007	11,484	(224)	-1.91%	15,694	(699)	-4.26%	17,365	17,365	0	0.00%	10.65%
2005-2006	11,708	(92)	-0.78%	16,393	(336)	-2.01%	17,365	17,365	0	0.00%	5.93%
2004-2005	11,800	60	0.51%	16,729	92	0.55%	17,365	17,365	0	0.00%	3.80%
2003-2004	11,740	40	0.34%	16,637	(413)	-2.42%	17,365	17,365	0	0.00%	4.38%
2002-2003	11,700	76	0.65%	17,050	(2,058)	-10.77%	17,365	17,365	(2,600)	-13.02%	1.85%
2001-2002	11,624	189	1.65%	19,108	7	0.04%	19,965	19,965	0	0.00%	4.49%
2000-2001	11,435	(41)	-0.36%	19,101	0	0.00%	19,965	19,965	0	0.00%	4.52%
1999-2000	11,476	280	2.50%	19,101	340	1.81%	19,965	19,965	0	0.00%	4.52%
1998-1999	11,196	(25)	-0.22%	18,761	374	2.03%	19,965	19,965	0	0.00%	6.42%
1997-1998	11,221	306	2.80%	18,387	431	2.40%	19,965	19,965	2,000	11.13%	8.58%
1996-1997	10,915	235	2.20%	17,956	353	2.01%	17,965	17,965	1,008	5.94%	0.05%
1995-1996	10,680			17,603			16,957	16,957			-3.67%
Annual Average			0.55%			-0.15%				0.36% 0.44%	5.62% 5.70%

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				0.0839	0.1090	1.4083	1.4922 1.5173
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			0.25%	0.0707	0.0808	1.4573	1.5370 1.5382