COMMERCE DEPARTMENT

August 1, 2019

Daniel P. Wolf Executive Secretary Minnesota Public Utilities Commission 121 7th Place East, Suite 350 St. Paul, Minnesota 55101

RE: Supplemental Comments of the Minnesota Department of Commerce, Division of Energy Resources Docket No. G004/M-18-454

Dear Mr. Wolf:

Attached are the *Supplemental Comments* of the Minnesota Department of Commerce, Division of Energy Resources (Department) in the following matter:

Petition of Great Plains Natural Gas Co., a Division of MDU Resources Group, Inc. (Great Plains or the Company) for Approval of Changes in Contract Demand Entitlements.

These *Supplemental Comments* are in response to Great Plains' *Informational Update* filed on October 31, 2018. The petitioner on behalf of Great Plains is:

Tamie A. Aberle Director of Regulatory Affairs Great Plains Natural Gas Company 705 West Fir Avenue PO Box 176 Fergus Falls, Minnesota 56538-0176

To ensure that the record is complete in this docket, the Department provides the following response to Great Plains' October 31, 2018 *Informational Update*. The Department recommends that the Minnesota Public Utilities Commission (Commission) accept the Company's proposed level of demand entitlement and allow Great Plains to recover associated demand costs through the monthly Purchased Gas Adjustment effective November 1, 2018. The Department also recommends that the Commission require Great Plains to provide information as requested herein in its next demand entitlement petition.

The Department is available to respond to any questions the Commission may have on this matter.

Sincerely,

/s/ SACHIN SHAH Rates Analyst

SS/ar Attachments

COMMERCE DEPARTMENT Before the Minnesota Public Utilities Commission

Supplemental Comments of the Minnesota Department of Commerce Division of Energy Resources

Docket No. G004/M-18-454

I. INTRODUCTION

Great Plains Natural Gas Co., a Division of MDU Resources Group, Inc. (Great Plains or the Company), filed a demand entitlement petition (*Petition*) on June 29, 2018, with the Minnesota Public Utilities Commission (Commission). On August 29, 2018 the Minnesota Department of Commerce, Division of Energy Resources (Department) filed *Comments* in response to the Company's *Petition*. In its *Comments*, the Department stated that it would provide its final recommendations to the Commission after the Company filed its update on November 1, 2018.

On October 31, 2018, the Company filed its *Informational Update* which showed the final demand entitlement volumes and costs that would be charged to ratepayers. The Company noted that there were changes to the firm transport entitlement levels since the original August 29, 2018 *Petition*.

Great Plains originally planned to purchase 2,400 Dekatherms (Dth or Dk) per day of firm, winter only, capacity on Viking Gas Transmission (Viking or VGT). In its *Petition*, the Company stated the following:¹

Great Plains proposes to acquire 2,400 Dk/day of seasonal capacity from a third party on VGT, as shown on Exhibit B, Page 1. This 2,400 Dk/day of seasonal capacity is to replace the 1,600 Dk/day seasonal firm capacity purchase contract with BP Canada Energy Marketing Corp., which expired after the 2017-2018 heating season. If Great Plains is unsuccessful in its attempt to secure seasonal capacity on VGT, the option to purchase a delivered supply of natural gas at either of the VGT city gates will be available on a term or spot basis. The Company will update the Commission regarding the final seasonal capacity contract or delivered supply purchase by November 1, 2018.

¹ See Great Plains August 29, 2018 Petition, page 3.

In the *Informational Update*, the Company reported that it acquired 5,000 Dth per day of capacity for five years in lieu of the seasonal winter only Viking capacity that it had originally proposed. In its *Informational Update*, the Company stated the following:²

At the time the June 29 DEQ filing was prepared, Viking Gas Transmission (VGT) capacity was fully subscribed and no additional capacity was available. Therefore, Great Plains proposed to acquire 2,400 Dk/day of seasonal capacity from a third party on VGT.

After the June 29 DEQ filing, VGT posted capacity, that had been turned back to VGT from a prior customer, for bid on its electronic bulletin board. Great Plains bid for and secured a five-year FT-A, Zone 1-1 annual contract for 5,000 Dk/day. Although this amount of firm capacity exceeds current demand requirements, Great Plains determined this long-term contract is in the Company's best interest for the following reasons that are similar to those identified in Response Comments of the Minnesota Department of Commerce, Division of Energy Resources, Docket No. G004/M-16 557, dated November 10, 2016, concerning a long-term capacity contract with [Northern Natural Gas] NNG secured in 2015:

- There is no valid alternative such as a propane-air peak shaving facility;
- Great Plains' peak-day send out has been increasing over the last three heating seasons;
- Future weather cannot be forecasted accurately and with precision;
- VGT is fully subscribed and currently does not have capacity available to contract in a "just-in-time" fashion; rather, incremental capacity is usually added in larger quantities; and
- Great Plains must plan for its design day.

As discussed in the *Petition*, Great Plains proposed changes in its demand entitlement that, in total, would have resulted in total demand costs from all source systems of approximately \$3,944,082.³ In the Company's *Informational Update*, Great Plains stated that as a result of the changes in Viking capacity (as described above), and the annual Northern Natural Gas's (NNG) reallocation of TF-12B and TF-12V services, total demand costs are approximately \$4,124,919 (net of the temporary capacity release).⁴

² See Great Plains October 31, 2018 *Informational Update*, page 2.

³ See Table 1, page 4 in the *Petition*.

⁴ See Table 2, page 3 in the Company's *Informational Update*.

The Department responds to the *Informational Update* below.

II. DEPARTMENT ANALYSIS

The Department offers the following analysis of the Company's *Informational Update*, addressing:

- the revised demand entitlement costs,
- the associated Purchased Gas Adjustment (PGA) cost; and
- the reserve margin (including the events of January 29, 2019 through January 30, 2019).
 - A. Entitlement Changes

As noted above, Great Plains originally planned to purchase 2,400 Dekatherms (Dth) per day of firm, winter only, capacity on Viking. Due to market conditions at the time the *Petition* was filed, Viking capacity was sold out. In addition, the Company had stated "If Great Plains is unsuccessful in its attempt to secure seasonal capacity on VGT, the option to purchase a delivered supply of natural gas at either of the VGT city gates will be available on a term or spot basis."

However, the Company acquired a five-year FT-A, Zone 1-1 annual contract for 5,000 Dth per day of capacity in lieu of the seasonal winter only Viking capacity or the delivered supply agreement that it had originally proposed. The acquired capacity is not only an annual, rather than seasonal, contract but 2,600 Dth per day more than what the Company anticipated in its *Petition*.

As the Company stated in its *Petition*,⁵ it projected a design-day requirement of 33,674 Dth/day, of which 16,472 Dth/day is needed for firm customers receiving natural gas from city gates interconnecting with VGT. The Company's previously subscribed transmission capacity that directly interconnects with Great Plains' city gates included 15,000 Dth/day on VGT to serve the city gates of Crookston, MN and communities located on Great Plains' transmission lateral located between Vergas, MN and Wahpeton, ND. However, with the new five-year FT-A, Zone 1-1 annual contract acquisition, the current subscribed transmission capacity that directly interconnects with Great Plains' city gates is 20,000 Dth/day on VGT.

⁵ See page 2 in the *Petition*.

If Great Plains had not procured the new five-year contract, the reserve margin would have been negative 8.9%.⁶ In the past few heating seasons the design day has been growing on the city gates interconnecting with VGT as shown in Table 1 below.⁷

| Heating Season | VGT Design Day (Dth) | Previous VGT Design Day Capacity (Dth) | Historical VGT Reserve Margin | Current Design Day Capacity (Dth) | VGT Reserve Margin |
|-------------------|-------------------------------|---|--|---|--------------------------|
| 2018-2019 | 16,472 | 15,000 | -8.94% | 20,000 | 21.42% |
| 2017-2018 | 15,821 | 15,000 | -5.19% | | |
| 2016-2017 | 15,556 | 15,000 | -3.57% | | |
| 2015-2016 | 15,410 | 15,000 | -2.66% | | |
| 2014-2015 | 14,812 | 15,000 | 1.27% | | |

Table 1: Historical VGT interconnected city gate Reserve Margin

The above historical Design Day capacity does not reflect the seasonal winter only capacity or the seasonal delivered supply agreement⁸ that the company previously acquired, but is now expired, and only reflects the long-term capacity that the Company has with VGT. The Company has previously tried to get long-term interstate pipeline capacity on VGT.⁹

⁶ *Id.* and Exhibit A of *Petition*.

⁷ For example, See Great Plains *July 2, 2014 Filing*, Exhibit A in Docket No. G004/M-14-563; *July 1, 2015 Filing*, Exhibits A, B, and D in Docket No. G004/M-15-645 (Docket 15-645); *October 29, 2015 Informational Update*, Exhibits A and B in Docket 15-645; *June 30, 2017 Filing*, Exhibits A and B in Docket No. G004/M-17-521 (Docket 17-521); *November 1, 2017 Informational Update*, Exhibits A, B, and D in Docket 17-521; and page 2 and Exhibit A in the *Petition*.

⁸ The seasonal winter capacity refers for example, to the 2,400 Dth per day of firm, winter only, capacity from a third party (such as BP Canada Energy Marketing Corporation) on VGT and Great Plains would hold the pipeline capacity and deliver supply to its city gates. Whereas a seasonal delivered supply agreement, in general, would refer to an arrangement where a gas supplier would hold firm transportation capacity on VGT, and would commit to deliver gas to Great Plains at the city gate thereby performing the transportation themselves.

⁹ See June 30, 2017 Filing, page 3 and Exhibit B and November 1, 2017 Informational Update, page 2 in Docket No. G004/M-17-521, and pages 2-3 of the Petition in the instant docket.

The Department also notes that Great Plains' 15,000 Dth/day VGT capacity for firm customers receiving natural gas from city gates interconnecting with VGT is also sourced by 15,000 Dk/day of supplemental capacity on NNG's transmission system. In its *Petition*,¹⁰ the Company indicated that 2,000 Dth/day of its supplemental seasonal NNG TFX capacity will expire on October 31, 2019.

Moreover, while the Company has previously acquired, and attempted to acquire, seasonal winter only capacity or the seasonal delivered supply agreement it is not clear whether the seasonal acquisitions would have been attainable for future heating seasons (i.e., for the 2018-2019 heating season) and/or whether that would have been cost effective compared to the long-term five-year contract acquired. To an extent, the Company avoids the potential need to fund a VGT transmission expansion project if it were to occur in the near future, by locking in the current rates. In addition as mentioned by the Company above,¹¹

- There is no valid alternative such as a propane-air peak shaving facility;
- Great Plains' peak-day send out has been increasing over the last three heating seasons;
- Future weather cannot be forecasted accurately and with precision;
- VGT is fully subscribed and currently does not have capacity available to contract in a "just-in-time" fashion; rather, incremental capacity is usually added in larger quantities;
- Great Plains must plan for its design day; and
- Consolidation of the Company's PGA districts could result in changes to Great Plains' current and future capacity arrangements.

Based on all of the above, the Department concludes that Great Plains proposed entitlement changes appear reasonable.

¹⁰ See Exhibit B of the *Petition* and the *Informational Update*.

¹¹ See the Department's *November 9, 2016 Supplemental Response Comments* in Docket No. G004/M-15-645 (Docket 15-645) at pages 6 through 13 for a detailed discussion.

B. Great Plains PGA Cost Recovery proposal update

Great Plains proposed to reflect the costs associated with its proposed demand entitlements in the PGA effective November 1, 2018. The demand entitlements in Great Plains' *Informational Update* Exhibit B and Table 2 represents the demand entitlements for which the Company's firm customers will pay. Table 3 of the *Informational Update* compares the October 2018 PGA costs to the November 2018 PGA costs for two customer classes. The resulting cost changes, related strictly to changes in demand costs, have the following annual rate effects:

- an annual bill increase of \$5.33 or approximately 5.4%, for the average residential customer consuming 77.9 dth annually; and
- an annual bill increase of \$29.71 or approximately 5.4%, for the average firm general service customer consuming 434.4 dth annually.

The bill impacts described above relate solely to changes in demand cost and are based on the demand data and information provided by the Company. Based on its review, the Department concludes that the Company's proposal appears to be reasonable.

- C. Reserve margin
 - 1. No Change to The Reserve Margin

As a result of the proposed entitlement changes, there is no change in the reserve margin of 5.56% (net of the temporary capacity release). This reflects a slight increase in the reserve margin compared to the 2017-2018 heating season's reserve margin of 5.23%.¹² Without the capacity release, the Company's entitlement is 38,145 Dth/day resulting in a reserve margin of 13.3%. As discussed in detail above and based on the discussion in the Department's *Comments*, the 2018-2019 reserve margin is acceptable.

2. Update on Reserve Margin Assessment

In the Department's *Comments*, the Department stated the following:¹³

As fully discussed previously,¹⁴ the Department notes that, in contrast to the electric utility industry, natural gas reserve margins are utility-specific rather than regionally specific. However, given

¹² See *Supplemental Comments* Department Attachments 1 and 2.

¹³ See Department's August 29, 2018 *Comments* at pages 9-10.

¹⁴ See the Department's *November 29, 2017 Comments* in Docket No. G004/M-17-521.

> Minnesota's efforts to expand natural gas use in under- and unserved areas, and the increasing use of natural gas for electricity generation, there is a growing need to more closely examine reserve margins and to integrate natural gas supply planning with electric resource planning. The Department will provide an update on the responses to information requests it has sent previously when it files its final recommendations and comments after Great Plains files its update on November 1, 2018, in addition to information provided in the annual service quality and annual automatic adjustment reports, to ascertain, among other things, the number and timing of interruptions (curtailments) that may be occurring, and the causes of those curtailments, as a first step in assessing whether the demand entitlements procured, including reserve margins in place at those times, were sufficient or justified, and to continue monitoring the growing interrelationship between the natural gas and electric industries.

Through discovery in various dockets,¹⁵ Great Plains provided the Department with daily throughput data (that includes all firm, transportation, and interruptible) by Town Border Station (TBS), and curtailment data over the period from November 2012 to March 2018. In its responses to Information Request (IR) No. 18 in Docket G999/AA-16-524 (Docket 16-524), the Company in part stated the following:

Great Plains does not track daily throughput by firm, interruptible, and transport load.

¹⁵ See *Supplemental Comments* Attachment 3.

The Department reviewed information provided by the Company regarding the Company's historical curtailments. Please see Table 2 below.

| | Curta | ilment | | | |
|-------------------------------|------------|------------|-----------|--------------------|---------|
| | | | | Non- | |
| | Beginning | End | No. of | Compliant Usage | Reserve |
| Period | Date | Date | Customers | (Dth) | Margin |
| | | | | | |
| Dec 2017 - Jan 18 | 12/25/2017 | 12/26/2017 | 4 | 0 | 5.23% |
| | 12/29/2017 | 12/31/2017 | 4 | 0 | |
| | 1/12/2018 | 1/13/2018 | 4 | 0 | |
| | 1/15/2018 | 1/16/2018 | 4 | 0 | |
| Jan - June 2017 ¹⁶ | 1/4/2017 | 1/6/2017 | 4 | 0 | 5.70% |
| | 03/14/2017 | 03/15/2017 | 1 | 300 | |
| | 8/29/2016 | 8/30/2016 | 1 | 0 | |
| July - Dec 2016 | 12/17/2016 | 12/18/2016 | 2 | 0 | 5.70% |
| | 12/18/2016 | 12/19/2016 | 2 | 0 | |
| | 12/19/2016 | 12/20/2016 | 2 | 0 | |
| July 2015 - June 2016 | 1/15/2016 | 1/16/2016 | 5 | 0 | 3.96% |
| , | 2/12/2016 | 2/13/2016 | 5 | 0 | |
| | | | | | |
| July 2014 - June 2015 | 2/17/2015 | 2/19/2015 | 5 | 0 | 4.89% |
| | | | | | |
| July 2013 - June 2014 | 1/5/2014 | 1/8/2014 | 17 | 916.3 | 4.12% |
| | 1/22/2014 | 1/23/2014 | 16 | 582.8 | |
| | 12/29/2013 | 12/31/2013 | 12 | 363.5 | |
| | 1/27/2014 | 1/28/2014 | 9 | 280.6 | |
| | 2/10/2014 | 2/11/2014 | 10 | 317.4 | |
| Nov 2012 - June 2013 | 1/31/2013 | 2/1/2013 | 3 | ?? | 5.33% |

Table 2: Historical Curtailments

¹⁶ See Exhibit F of Great Plains August 31, 2017 Annual Automatic Adjustment (AAA) Report in Docket No. G999/AA-17-493 (Docket 17-493).

The Department notes that, in Great Plains' response to Department IR No. 18 in various dockets,¹⁷ the Company identified additional customers that were asked to curtail on 01/04/2017 for approximately 9 days and on 01/12/2017 for a day due to weather and pressure issues on a Fergus Falls lateral line.

As can be seen in Table 2 above, the Company had some curtailment events during the various heating seasons (including the First Polar Vortex). It appears that Great Plains has taken steps to ensure that its interruptible customers are truly interruptible and able to curtail usage when an event is called.

In its Exhibit F of its initial AAA Report in Docket 17-493, Great Plains only identified one curtailment event from 01/04/2017 till 01/06/2017 as shown in Table 2 above. In its response to Department IR No. 18 in various dockets,¹⁸ the Company stated the following:

Direct: refers to situations where customers were expressly notified of curtailment.

Indirect: refers to situations where customer, who typically doesn't consume, would be denied service if a request was made. (Grain Dryers)

The Company did have one customer that was non-compliant during the 2016-2017 heating season as described in the Department's *December 4, 2018 Comments* in Docket 17-493 as follows:¹⁹

In its Exhibit F, Great Plains explained that it had five curtailment periods during the 2016-2017 heating season and all eleven customers that were requested to curtail gas usage complied with the request. One customer however, ignored instructions to not run their grain dryer on March 14-15, 2017. That customer used over 300 dekatherms of unauthorized gas, resulting in a penalty of over \$15,000 that was credited back to ratepayers. The Department concludes that Great Plains complied with the reporting requirements in Docket No. 14-580.

The Department has previously stated that it is important that interruptible customers who do not use the gas system in a responsible manner be held financially accountable:²⁰

¹⁷ See *Supplemental Comments*, Attachment 3.

¹⁸ See *Supplemental Comments* Attachment 3.

¹⁹ See Exhibit F of Great Plains *August 31, 2017 AAA Report* in Docket 17-493 and Department's *December 4, 2018 Comments* in Docket 17-493 at pages 21 and 59-60.

²⁰ See Department's *December 4, 2018 Comments* in Docket 17-493 at pages 59-60.

> Curtailment penalties are fines imposed by regulated Minnesota gas utilities on interruptible customers who fail to curtail or interrupt their use of natural gas supplies when requested to do so by the utility. It is important that interruptible customers who do not use the gas system in a responsible manner be held financially accountable. When interruptible customers choose to take service under an interruptible tariff, they accept the potential of curtailment in return for lower prices than are charged firm customers. That is, interruptible customers do not pay for demand/capacity costs. If an interruptible customer fails to curtail when notified, the utility (not the individual interruptible customer) may face pipeline penalties too, which, in turn, would raise rates to all customers. Conceptually, failure to curtail also could jeopardize reliable gas service to firm customers. Therefore, the Commission approved utility tariffs under which, if interruptible customers fail to respond to curtailment notices, they are charged curtailment penalties.

Great Plains' planning approach appears to be appropriate, and in light of the reserve margins in place at the time, the Department concludes at this time that Great Plains' planning approach and resulting reserve margins appear reasonable.

3. Information Requested to be Included in Next Demand Entitlement Petition

In Docket No. E,G999/CI-19-160 (Docket 19-160), the Commission opened an investigation to learn about each utility's operational experiences during the 2019 Polar Vortex.

In its April 8, 2019 Comments in Docket 19-160, Great Plains stated the following:²¹

...The weather event that took place in January and February of 2019 resulted in temperatures that were near the 30-year coldest weather temperatures Great Plains' uses to analyze its customers' requirements to ensure sufficient pipeline capacity is secured, gas supplies are available, and the distribution system is capable of delivering sufficient gas supply to its customers. Great Plains actively monitors its system in cold weather conditions to ensure that reliability and safety are maintained. There was no loss in service to any firm customers during the severe weather event. Further, Great Plains did not experience any issues with excess flow valves during the severe weather event.

²¹ See edockets Id 20194-151762-01

The Company indicated that its firm customers were not impacted during the 2019 Polar Vortex, but the Company indicated that it had "pressure" issues near Fergus Falls. As a result, the Department requests that Great Plains in its next Demand Entitlement Petition explain the Fergus Falls pressure issues experienced during the most recent Polar Vortex, and past events such as the occurrence in January 2017, including at a minimum answers to the following questions:

- What are the possible sources of the "pressure" issues in Fergus Falls?
- Have the previous "pressure" issues impacted service to the Company's firm customers?

In addition, the Department requests that the Company explain in its next demand entitlement petition how its distribution/transmission system and city gates would be impacted if there ever were a loss of a single compressor station on NNG's and/or Viking's systems.

III. DEPARTMENT RECOMMENDATIONS

The Department recommends that the Commission:

- Approve Great Plains' proposed level of demand entitlements as amended by its *Supplemental Filing*; and
- Allow Great Plains to recover associated demand costs through the monthly Purchased Gas Adjustment effective November 1, 2018.

The Department also requests that, in its next demand entitlement petition, Great Plains provide the following information.

- What are the possible sources of the "pressure" issues in Fergus Falls?
- Have the previous "pressure" issues impacted service to the Company's firm customers?
- Explain in its next demand entitlement petition how its distribution/transmission system and city gates would be impacted if there ever were a loss of a single compressor station on:
 - NNG's system,
 - Viking's system,
 - Both NNG's and Viking's systems.

Supplemental Comments Department Attachment 1 Docket No. G004/M-18-454 Great Plains Demand Entitlement Historical and Current Proposal

| | | | | | Proposed A | s of 11/1/18 | |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------------|
| | 2015-2016 | 2016-2017 | 2017-2018 | 2018-2019 | Change in | Change in | Change in Design |
| Contract Type | Quantity (Mcf) | Capacity (%) | Day (%) |
| <u>VGT</u> | | | | | | | |
| FT-A (12-month) | 13,000 | 13,000 | 13,000 | 18,000 | 5,000 | | |
| FT-A (5-month) | 2,700 | 3,400 | 2,000 | 2,000 | - | | |
| BP (5-month) | - | - | 1,600 | - | (1,600) | | |
| Seasonal Capacity Release | | | | (2,600) | (2,600) | | |
| Total VGT | 15,700 | 16,400 | 16,600 | 17,400 | 800 | | |
| NNG | | | | | | | |
| TFX (12-month)* | 2,000 | 2,000 | 700 | 1,000 | 300 | | |
| TFX (5-month) | 6,200 | 6,200 | 6,200 | 6,200 | - | | |
| TF12B | 4,604 | 5,421 | 4,854 | 3,819 | (1,035) | | |
| TF12V | 2,931 | 2,114 | 2,681 | 3,716 | 1,035 | | |
| TF5 | 3,410 | 3,410 | 3,410 | 3,410 | - | | |
| TFX (Capacity Release) | (1,300) | (1,300) | - | - | - | | |
| Total NNG | 17,845 | 17,845 | 17,845 | 18,145 | 300 | | |
| Total Entitlement | 33,545 | 34,245 | 34,445 | 35,545 | 1,100 | 3.19% | 6 0.41% |
| Total Annual Transportation | 22,535 | 22,535 | 21,235 | 26,535 | 5,300 | 24.96% | , |
| Total Winter Only Transport | 11,010 | 11,710 | 13,210 | 9,010 | (4,200) | -31.79% | , |
| Percent of Winter Only Capacity | 32.82% | 34.19% | 38.35% | 25.35% | | | |

*Demand profile includes 1,000 dk: Remaining 1,000 dk used to deliver gas to Viking interconnect at Chisago for 1,300 dk FT-A (12 Months) "back-haul" contract to Vergas, MN.

Source: Great Plains Exhibit B

Supplemental Comments Department Attachment 2 Docket No. G004/M-18-454 Great Plains Demand Entitlement Analysis*

| | Nur | nber of Firm Cus | tomers | Des | ign-Day Requirement | 1 | Total Entit | lement Plus Peak S | Shaving | Reser | ve Margin |
|-----------|-----------|------------------|---------------|------------|---------------------|---------------|------------------|--------------------|---------------|-----------|---------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) |
| Heating | Number of | Change from | % Change From | Design Day | Change from | % Change From | Total Design-Day | Change from | % Change From | Reserve | % Reserve |
| Season | Customers | Previous Year | Previous Year | (Dth) | Previous Year | Previous Year | Capacity (Dth) | Previous Year | Previous Year | (7) - (4) | [(7)-(4)]/(4) |
| 2018-2019 | 24,240 | 243 | 1.01% | 33,674 | 941 | 2.87% | 35,545 | 1,100 | 3.19% | 1,871 | 5.56% |
| 2017-2018 | 23,997 | 184 | 0.77% | 32,733 | 335 | 1.03% | 34,445 | 200 | 0.58% | 1,712 | 5.23% |
| 2016-2017 | 23,813 | (69) | -0.29% | 32,398 | 131 | 0.41% | 34,245 | 700 | 2.09% | 1,847 | 5.70% |
| 2015-2016 | 23,882 | 358 | 1.52% | 32,267 | 1,143 | 3.67% | 33,545 | 900 | 2.76% | 1,278 | 3.96% |
| 2014-2015 | 23,524 | 296 | 1.27% | 31,124 | 1,691 | 5.75% | 32,645 | 2,000 | 6.53% | 1,521 | 4.89% |
| 2013-2014 | 23,228 | 290 | 1.26% | 29,433 | 339 | 1.17% | 30,645 | 0 | 0.00% | 1,212 | 4.12% |
| 2012-2013 | 22,938 | 164 | 0.72% | 29,094 | 158 | 0.55% | 30,645 | 159 | 0.52% | 1,551 | 5.33% |
| 2011-2012 | 22,774 | 40 | 0.18% | 28,936 | (393) | -1.34% | 30,486 | (1,380) | -4.33% | 1,550 | 5.36% |
| 2010-2011 | 22,734 | (2) | -0.01% | 29,329 | (515) | -1.73% | 31,866 | (1,170) | -3.54% | 2,537 | 8.65% |
| 2009-2010 | 22,736 | 85 | 0.38% | 29,844 | 119 | 0.40% | 33,036 | (1,170) | -3.42% | 3,192 | 10.70% |
| 2008-2009 | 22,651 | 49 | 0.22% | 29,725 | (714) | -2.35% | 34,206 | 0 | 0.00% | 4,481 | 15.07% |
| 2007-2008 | 22,602 | 1 | 0.00% | 30,439 | (406) | -1.32% | 34,206 | 0 | 0.00% | 3,767 | 12.38% |
| 2006-2007 | 22,601 | | | 30,845 | | | 34,206 | | | 3,361 | 10.90% |
| Average | | | 0.59% | | | 0.76% | | | 0.36% | | 7.53% |

| | Fir | m Peak-Day Sen | dout | | Per Custome | r Metrics | |
|-----------|---------------|----------------|---------------|---------------------|------------------|------------------|-------------------|
| | (12) | (13) | (14) | (15) | (16) | (17) | (18) |
| Heating | Firm Peak-Day | Change from | % Change From | Excess per Customer | Design Day per | Entitlement per | Peak-Day Send per |
| Season | Sendout (Dth) | Previous Year | Previous Year | [(7) - (4)]/(1) | Customer (4)/(1) | Customer (7)/(1) | Customer (12)/(1) |
| 2018-2019 | unknown | | | 0.0772 | 1.3892 | 1.4664 | unknown |
| 2017-2018 | 28,641 | 112 | 0.39% | 0.0713 | 1.3640 | 1.4354 | 1.1935 |
| 2016-2017 | 28,529 | 1,283 | 4.71% | 0.0776 | 1.3605 | 1.4381 | 1.1980 |
| 2015-2016 | 27,246 | (1,853) | -6.37% | 0.0535 | 1.3511 | 1.4046 | 1.1409 |
| 2014-2015 | 29,099 | 1,406 | 5.08% | 0.0647 | 1.3231 | 1.3877 | 1.2370 |
| 2013-2014 | 27,693 | 3,471 | 14.33% | 0.0522 | 1.2671 | 1.3193 | 1.1922 |
| 2012-2013 | 24,222 | 5,513 | 29.47% | 0.0676 | 1.2684 | 1.3360 | 1.0560 |
| 2011-2012 | 18,709 | (4,269) | -18.58% | 0.0681 | 1.2706 | 1.3386 | 0.8215 |
| 2010-2011 | 22,978 | 1,442 | 6.70% | 0.1116 | 1.2901 | 1.4017 | 1.0107 |
| 2009-2010 | 21,536 | (1,731) | -7.44% | 0.1404 | 1.3126 | 1.4530 | 0.9472 |
| 2008-2009 | 23,267 | 540 | 2.38% | 0.1978 | 1.3123 | 1.5101 | 1.0272 |
| 2007-2008 | 22,727 | 852 | 3.89% | 0.1667 | 1.3467 | 1.5134 | 1.0055 |
| 2006-2007 | 21,875 | | | 0.1487 | 1.3648 | 1.5135 | 0.9679 |
| Average | | | 3.14% | 0.0998 | 1.3247 | 1.4245 | 1.0665 |

*The Petition is the second in which the Company's South District and North District were combined based the ruling in Docket No. G004/GR-15-879. The Department combined the districts for comparison. Source: Great Plains Exhibit D



705 West Fir Avenue Mailing Address: P.O. Box 176 Fergus Falls, MN 56538-0176 (218) 736-6935 April 10, 2017

Public Copy – Trade Secret Information Redacted

Mr. Connor Boler Department of Commerce Division of Energy Resources 85 7th Place East, Suite 500 St. Paul, MN 55101-2198

Re: Docket No. G999/AA-16-524

Dear Mr. Boler:

Great Plains Natural Gas Co., (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically submits its response to information request number 18 from the Minnesota Department of Commerce, Division of Energy Resources dated March 10, 2017. Response No. 18 has information that has been designated as Confidential Information – Not for Public Disclosure and is furnished in accordance with Minnesota Statute 13.37 Subd. 1(b). This information would present a safety concern to Great Plains if made public.

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

| Docket Number: Requested From: | G999/AA-16-524 All regulated gas utilities | □Nonpublic ⊠Public Date of Request: 3/10/2017 Response Due: 3/20/2017 |
|---|---|---|
| Requested by: Email Address(es): Phone Number(s): | Adam Heinen/Michael Ryan/Angel adam.heinen@state.mn.us 651-539-1825 | la Byrne/Steve Rakow |
| Request Number: Topic: | 18 Distribution Planning | |

Request:

- A. Please provide a detailed discussion of how the utility plans, constructs, and maintains its distribution system. As part of this response, include a discussion about how the utility decides to add capacity or expand in to new, or growing, service territory.
- B. Please provide daily throughput data, by each individual Town Border Station (TBS) or delivery point, on the utility's system since November 1, 2012. If available, please provide these data divided by firm, interruptible, and transport load. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- C. Please provide the number of interruption days, by TBS or delivery point, by month since November 2012. To the extent possible, please identify the number of interruption days that are non-weather related (*e.g.*, reliability purposes). Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- D. Please provide, on a daily basis since November 1, 2012 by TBS or delivery point, the maximum deliverable throughput by customer type. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- E. Please provide, by TBS or delivery point, on a daily basis since November 1, 2012 the percentage of deliverable capacity subscribed by the utility. If applicable, please identify other parties, and their percentages of subscribed capacity, at the TBS. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- F. Please provide the following forecasted data, in Microsoft Excel format with all links and formulae intact, by TBS, or delivery point, for the next three heating seasons. If the utility expects daily fluctuation, please provide these data on a daily basis:
 - a. Total utility throughput, if possible, divided by customer type (*i.e.*, firm, interruptible, transport); and
 - b. Expected firm and total throughput available at the TBS or delivery point.
- G. Please provide maps, by county, identifying the location (and name) of any, and all, TBSs or delivery points on the utility's system. If possible, please provide these maps in pdf and GIS executable formats.

To be completed by responder

| Docket Number: | G999/AA-16-524 | □Nonpublic ⊠Public |
|--------------------|-------------------------------|----------------------------|
| Requested From: | All regulated gas utilities | Date of Request: 3/10/2017 |
| | | Response Due: 3/20/2017 |
| Requested by: | Adam Heinen/Michael Ryan/Ange | la Byrne/Steve Rakow |
| Email Address(es): | adam.heinen@state.mn.us | |
| Phone Number(s): | 651-539-1825 | |

- a. Please identify, by county, on the maps in Part F, the location of any, and all, transmission assets on the utility's system.
- b. If the utility has an affiliate transmission or intrastate pipeline utility, please also identify these assets on the maps provided in Part F, by county.

If this information has already been provided in written comments or in response to an earlier DOC information request, please identify the specific comment cite(s) or DOC information request number(s).

Response:

A. Great Plains Natural Gas constructs and maintains its gas system based on state code, federal PHMSA code, and utility best practices. Great Plains builds and maintains its system to provide service to its customers and provide safety for the general public. The Company is currently involved in a Distribution Integrity replacement project and is replacing the current PVC pipe in its distribution system with polyethylene pipe. The new system will be locatable and the pipe material is designed for higher operating pressures. The Company's engineering staff looks at ways to improve the system each time a replacement or expansion project takes place. The economics associated with expansion projects are reviewed in concert with the Company's extension policy authorized by the Commission. Expansion projects must be supported by incremental margin generated by customer load growth or funded by the customer to ensure the addition of a new customer does not create a burden to all other customers.

To maintain adequate service, capacity may have to be added to a town border station (TBS) due to normal demand growth or the addition of a single customer. TBS upgrades to meet normal demand growth of firm residential and commercial leaves the Company two options: 1) refuse new firm residential and small commercial growth or 2) require new customers to take interruptible sales or transport service. In this case, the capacity upgrade may be undertaken and the asset becomes part of the Company's distribution system without a customer contribution. A single large customer that requires additional capacity on the system may be required to participate in the cost of the TBS upgrade if the load does not support the required investment.

To be completed by responder

Response Date:April 10, 2017Response by:Travis JacobsonEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855

| Docket Number: | G999/AA-16-524 | □Nonpublic ⊠Public |
|-------------------------------------|--|----------------------------|
| Requested From: | All regulated gas utilities | Date of Request: 3/10/2017 |
| | | Response Due: 3/20/2017 |
| Requested by: Email Address(es): | Adam Heinen/Michael Ryan/Ange adam.heinen@state.mn.us | la Byrne/Steve Rakow |

- B. Please see the attached Microsoft Excel document titled "DOC IR 18 Response Attachment A" within worksheet titled "Request 18.B". Great Plains does not track daily throughput by firm, interruptible, and transport load.
- C. Please see Attachment B. Page 1 is the information for July through December 2016, page 2 covers the period July 2015 through June 2016 and was provided in Docket No. AA-16-524, page 3 covers the period July 2014 through June 2015 and was provided in Docket No. AA-15-612, and pages 4 and 5 cover the period July 2013 through June 2014 and was provided in Docket No. AA-14-580. For the period November 2012 through June 2013, from 9:00 a.m. on 1/31/13 through 9:00 a.m. 2/1/2013, three customers in the South District were asked to curtail. Two customers complied and one failed to comply resulting in a penalty.
- D. Great Plains Natural Gas does not allocate maximum deliverable throughput to or for any particular customer class.
- E. Great Plains Natural Gas does not track historical delivery point capacities; therefore, does not identify the percentage of subscribed capacity. Please see the current percentage of deliverable capacity in the attached Microsoft Excel document titled "DOC IR 18 Response Attachment A" within worksheet titled "Request 18.E"
- F. a. Please refer to included Microsoft Excel document titled "DOC IR 18 Response Attachment A" within worksheet titled "Request 18.F"

b. Please see Response No. 18 E. The expected and total throughput available is shown in the Microsoft Excel file.

G. Please see the maps [TRADE SECRET] which shown Great Plains' service territory by county which are included in the attached files in pdf format.

Phone Number(s): 651-539-1825

To be completed by responder

Attachment B Page 1 of 5

GREAT PLAINS NATURAL GAS CO.

CURTAILMENT REQUIREMENTS AND PENALTIES

JULY 2016 - DECEMBER 2016

Great Plains' curtailment requirements and penalties information:

a. The volume of gas consumed by the non-compliant customer during the curtailment period.

-0- dk

Four curtailment events occurred during the period beginning July 2016 through December 2016

- 1) 9:00 a.m. on 8/29/16 until 9:00 a.m. on 8/30/16
- One customer was requested to curtail gas usage
- The customer complied with the request
- 2) 9:00 a.m. on 12/17/16 until 9:00 a.m. on 12/18/16
- Two customers were requested to curtail gas usage
- Both customers complied with the request
- 3) 9:00 a.m. on12/18/16 until 9:00 a.m. on 12/19/16
- Two customers were requested to curtail gas usage
- Both customers complied with the request
- 4) 9:00 a.m. on 12/19/16 until 9:00 a.m. on 12/20/16
- Two customers were requested to curtail gas usage
- Both customers complied with the request
- b. The specific commodity rate charged for the unauthorized gas used and how that rate is determined

N/A

c. The financial penalty, if any, assess by the company to the customer, including calculation in determining the penalty or penalties

N/A

d. A discussion about utility communication with each customer regarding noncompliance with interruptions (excluding invoices).

N/A

Attachment B Page 2 of 5

GREAT PLAINS NATURAL GAS CO. CURTAILMENT REQUIREMENTS AND PENALTIES JULY 2015 – JUNE 2016

Great Plains' curtailment requirements and penalties information:

a. The volume of gas consumed by the non-compliant customer during the curtailment period.

-0- dk

Two curtailment periods during the 2015-2016 heating season:

- 1) 9:00 a.m. on 1/15/16 until 9:00 a.m. on 1/16/16
 - · Five customers were requested to curtail gas usage
 - All customers complied with the request
- 2) 9:00 a.m. on 2/12/16 until 9:00 a.m. on 2/13/16
 - · Five customers were requested to curtail gas usage
 - All customers complied with the request
- b. The specific commodity rate charged for the unauthorized gas used and how that rate is determined.

N/A

c. The financial penalty, if any, assessed by the company to the customer, including calculations in determining the penalty or penalties.

N/A

d. A discussion about utility communication with each customer regarding noncompliance with interruptions (excluding invoices).

N/A

Attachment B Page 3 of 5

GREAT PLAINS NATURAL GAS CO. CURTAILMENT REQUIREMENTS AND PENALTIES JULY 2014 – JUNE 2015

Great Plains' curtailment requirements and penalties information:

a. The volume of gas consumed by the non-compliant customer during the curtailment period.

-0- dk

One curtailment period during the 2014-2015 heating season:

- 3:00 p.m. on 2/17/15 until 9:00 a.m. on 2/19/15
- Five customers were requested to curtail gas usage
- All customers complied with the request
- b. The specific commodity rate charged for the unauthorized gas used and how that rate is determined.

N/A

c. The financial penalty, if any, assessed by the company to the customer, including calculations in determining the penalty or penalties.

N/A

d. A discussion about utility communication with each customer regarding noncompliance with interruptions (excluding invoices).

N/A

| Account Info | ormation | | | | | | | | Startir | ng Meter Rea | bd | End | Meter Read | | S | 50/ d | th Penalty | | |
|--------------|-------------------|------------------|-------------|----------------------------------|---|---------------------------------------|-------------------------|-----------------------------|------------|--------------|-------------|------------|------------|--------|----------------------|-------|---------------------|----|-----------------------|
| <u>Ci</u> ty | Account Number | Customer Type | <u>Rate</u> | <u>Curtailment</u> Start Date | <u>Curtailment</u> <u>Start Time</u> | <u>Curtailment</u> <u>End Date</u> | Curtailment End Time | <u>Dth</u> <u>Avail.</u> | Date | Time | <u>Read</u> | Date | Time | Read | Consumption (Dth) | 1 | alty Rate S/Dth) | | Portion of Penalty |
| Breckenridge | 11410 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:10 AM | 957545 | 1/8/2014 | 9:34 AM | 957577 | 3.6 | 5 | 50.00 | \$ | 180.00 |
| Crookston | 21951 | Sales | N71 | 1/5/2014 | 9.00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:33 AM | 52021 | 1/8/2014 | 8:15 AM | 54403 | 314.2 | \$ | 50.00 | \$ | 15,710.00 |
| Crookston | 21741 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:46 AM | 187899 | 1/8/2014 | 10:00 AM | 188101 | 200.6 | \$ | 50.00 | \$ | 10,030.00 |
| Crookston | 21735 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:47 AM | 76148 | 1/8/2014 | 9:20 AM | 76926 | 86.6 | \$ | 50.00 | \$ | 4,330.00 |
| Crookston | 21749 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:48 AM | 62365 | 1/8/2014 | 10:00 AM | 63027 | 73.7 | \$ | 50.00 | \$ | 3,685.00 |
| Crookston | 21940 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:20 AM | 92823 | 1/8/2014 | 9:49 AM | 93056 | 49.9 | \$ | 50.00 | \$ | 2,495.00 |
| Crookston | 27339 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | a | 1/5/2014 | 9:58 AM | 14735 | 1/8/2014 | 10:20 AM | 14944 | 20.8 | 5 | 50.00 | \$ | 1,040.00 |
| Crookston | 21756 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | D | 1/5/2014 | 10:00 AM | 91192 | 1/8/2014 | 9:58 AM | 91394 | 20.1 | \$ | 50.00 | \$ | 1,005.00 |
| Crookston | 22037 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | D | 1/5/2014 | 9:22 AM | 36644 | 1/8/2014 | 9:37 AM | 36732 | 9.8 | \$ | 50.00 | \$ | 490.00 |
| Crookston | 20876 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:30 AM | 24075 | 1/8/2014 | 8:05 AM | 24148 | 7.2 | S | 50.00 | s | 360.00 |
| Crookston | 28321 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:00 AM | 54168 | 1/8/2014 | 9.45 AM | 54208 | 4.5 | \$ | 50.00 | \$ | 225.00 |
| Crookston | 20713 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:12 AM | 254376 | 1/8/2014 | 8:50 AM | 254411 | 3.7 | 5 | 50.00 | s | 185.00 |
| Crookston | 21951 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:21 AM | 66280 | 1/23/2014 | 8:27 AM | 67212 | 123.3 | 5 | 50.00 | 5 | 6,165.00 |
| Crookston | 21741 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:33 AM | 189525 | 1/23/2014 | 8:17 AM | 189561 | 35.9 | \$ | 50.00 | S | 1,795.00 |
| Crookston | 21735 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:51 AM | 79605 | 1/23/2014 | 7:42 AM | 79828 | 24.9 | \$ | 50.00 | \$ | 1,245.00 |
| Crookston | 21749 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:39 AM | 66439 | 1/23/2014 | 8:17 AM | 66645 | 23.0 | \$ | 50.00 | \$ | 1,150.00 |
| Crookston | 27339 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:59 AM | 15943 | 1/23/2014 | 7:57 AM | 16026 | 8.3 | 5 | 50.00 | \$ | 415.00 |
| Crookston | 21940 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:17 AM | 94883 | 1/23/2014 | 8:10 AM | 94909 | 5.6 | \$ | 50.00 | \$ | 280.00 |
| Crookston | 22046 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:01 AM | 36756 | 1/23/2014 | 7:52 AM | 36811 | 5.5 | \$ | 50.00 | \$ | 275.00 |
| Crookston | 22037 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:09 AM | 37737 | 1/23/2014 | 8:02 AM | 37765 | 3.1 | \$ | 50.00 | \$ | 155.00 |
| Crookston | 20876 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:22 AM | 24391 | 1/23/2014 | 7:32 AM | 24418 | 2.7 | \$ | 50.00 | 5 | 135.00 |
| Crookston | 28321 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:13 AM | 55572 | 1/23/2014 | 8:07 AM | 55591 | 2.1 | \$ | 50.00 | S | 105.00 |
| Crookston | 20713 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:26 AM | 257997 | 1/23/2014 | 9:05 AM | 258010 | 1.4 | S | 50.00 | \$ | 70.00 |
| Crookston | 21741 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:30 PM | 187255 | 12/31/2013 | 9:15 AM | 187338 | 82.4 | \$ | 50.00 | \$ | 4,120.00 |
| Crookston | 21749 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:36 PM | 60748 | 12/31/2013 | 9:18 AM | 61114 | 40.7 | \$ | 50.00 | S | 2,035.00 |
| Crookston | 21735 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 1:42 PM | 74451 | 12/31/2013 | 10:40 AM | 74909 | 51.0 | \$ | 50.00 | \$ | 2,550.00 |
| Crookston | 21951 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:50 AM | 49501 | 12/31/2013 | 9:25 AM | 49717 | 28.5 | \$ | 50.00 | Ş | 1,425.00 |
| Crookston | 22037 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 1:52 PM | 36206 | 12/31/2013 | 9:37 AM | 36272 | 7.3 | \$ | 50.00 | 5 | 365.00 |
| Crookston | 28321 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:56 AM | 53622 | 12/31/2013 | 10:56 AM | 53721 | 11.0 | \$ | 50.00 | \$ | \$50.00 |
| Crookston | 21951 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:32 AM | 70177 | 1/28/2014 | 10:35 AM | 71330 | 151.6 | 5 | 50.00 | \$ | 7,580.00 |
| Crookston | 21741 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:05 AM | 189917 | 1/28/2014 | 11:10 AM | 189957 | 39.6 | \$ | 50.00 | \$ | 1,980.00 |
| Crookston | 27339 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:18 AM | 16213 | 1/28/2014 | 11:20 AM | 16586 | 36.9 | \$ | 50.00 | \$ | 1,845.00 |
| Crookston | 21735 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:51 AM | 80624 | 1/28/2014 | 9:13 AM | 80848 | 24.9 | 5 | 50.00 | 5 | 1,245.00 |
| Crookston | 21940 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:35 AM | 95400 | 1/28/2014 | 10:30 AM | 95451 | 10.9 | 5 | 50.00 | \$ | 545.0 |
| Crookston | 22037 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:07 AM | 38029 | 1/28/2014 | 9:27 AM | 38056 | 3.0 | \$ | 50.00 | \$ | 150.00 |
| Crookston | 20511 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | D | 1/27/2014 | 9:15 AM | 44349 | 1/28/2014 | 8:46 AM | 44366 | 1.9 | \$ | 50.00 | \$ | 95.00 |
| Crookston | 21951 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:40 AM | 83354 | 2/11/2014 | 9:53 AM | 84659 | 171.6 | 5 | 50.00 | 5 | 8,580.0 |
| Crookston | 21741 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:50 AM | 191409 | 2/11/2014 | 10:26 AM | 191448 | 38.6 | \$ | 50.00 | \$ | 1,930.0 |
| Crookston | 21940 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:34 AM | 97267 | 2/11/2014 | 9:50 AM | 97440 | 37.0 | 5 | 50.00 | \$ | 1,850.0 |
| Crookston | 21749 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:54 AM | 71548 | 2/11/2014 | 10:31 AM | 71769 | 24.5 | 5 | 50.00 | 5 | 1,225.0 |
| Crookston | 25145 | Sales | N71 | | | | 12:00 PM | | | 8:24 AM | 396948 | | 8:39 AM | 396954 | 5.9 | \$ | 50.00 | \$ | 295.0 |

Docket No. G004/M-18-454 Supplemental Comments DOC Attachment 3 Page 9 of 38

| Account Infor | mation | | | | | | | | Startin | ng Meter Rea | d | End | Meter Read | | \$ | 50/ dth Pena | Ity | |
|----------------|-------------------|------------------|------|---|---------------------------|-------------------------|-------------------------|----------------------------|------------|--------------|-------------|------------|------------|--|----------------------|------------------------|------|---------------------------|
| City | Account Number | Customer Type | Rate | <u>Curtailment</u> <u>Start Date</u> | Curtailment Start Time | Curtailment End Date | Curtailment End Time | <u>Dth</u> <u>Avail</u> | Date | Time | <u>Read</u> | Date | Time | <u>Read</u> | Consumption (Dth) | Penalty Rat (S/Dth) | e s | \$50 Portion o Penalty |
| rookston | 22037 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 10:05 AM | 39270 | 2/11/2014 | 9:45 AM | 39292 | 2.4 | \$ 50.0 | 00 5 | \$ 120.00 |
| rookston | 20713 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 8:28 AM | 262394 | 2/11/2014 | 8:43 AM | 262409 | 1.6 | \$ 50.0 | 0 | \$ 80.00 |
| Dawson | 24169 | Sales | S85 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | | | | | | | 319.7 | \$ 50.0 | x : | \$ 15,985.00 |
| ergus Falls | 6320 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 11:16 AM | 89087 | 1/8/2014 | 8:27 AM | 89581 | 55.0 | \$ 50.0 | 00 1 | \$ 2,750.00 |
| ergus Falls | 7861 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 12:00 AM | 40910 | 1/8/2014 | 9:23 AM | 41028 | 13.1 | \$ 50.0 | 00 | \$ 655.00 |
| ergus Falls | 28650 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:19 AM | 49618 | 1/8/2014 | 9:42 AM | 49694 | 8.5 | \$ 50.0 | 00 | \$ 425.00 |
| Fergus Falls | 7861 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:44 AM | 41932 | 1/23/2014 | 9:05 AM | 42022 | 10.0 | \$ 50. | 00 | \$ 500.00 |
| Fergus Falls | 8230 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:20 AM | 45267 | 1/23/2014 | 8:58 AM | 45342 | 8.3 | \$ 50. | 00 | \$ 415.00 |
| Fergus Falls | 8456 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:20 AM | 49104 | 12/31/2013 | 9:57 AM | 49299 | 21.7 | \$ 50. | 00 | \$ 1,085.00 |
| Fergus Falls | 7861 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 10:57 AM | 40578 | 12/31/2013 | 10:44 AM | 40645 | 7.5 | \$ 50. | 00 | \$ 375.00 |
| Fergus Falls | 8670 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:59 PM | 6897 | 12/31/2013 | 10:04 AM | 7064 | 25.5 | \$ 50. | 00 | \$ 1,275.00 |
| Fergus Falls | 7861 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 8:37 AM | 42298 | 1/28/2014 | 9:33 AM | 42322 | 2.6 | \$ 50. | 00 | \$ 130.00 |
| Fergus Falls | 6320 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:52 AM | 93561 | 2/11/2014 | 9:05 AM | 93709 | 16.3 | \$ 50. | 00 | \$ 815.00 |
| Fergus Falls | 7861 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:57 AM | 43267 | 2/11/2014 | 9:23 AM | 43287 | 2 2 | \$ 50. | 00 | \$ 110.00 |
| Montevideo | 24169 | Sales | 585 | 12/29/2013 | 12:00 PM | | | 0 | 1/5/2014 | | - | 1/8/2014 | | and the second | 35.2 | S 50, | 00 | \$ 1,760.00 |
| Montevideo | 15156 | Sales | 585 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:27 AM | 181139 | 1/8/2014 | 10:00 AM | 181442 | 30.8 | \$ 50. | 00 | \$ 1,540.00 |
| Montevideo | 15156 | Sales | 585 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:04 AM | 183799 | 1/23/2014 | 1:45 PM | 183837 | 3.9 | \$ 50. | 00 | \$ 195.00 |
| Pelican Rapids | 10077 | Sales | N71 | 1/3/2014 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 2:16 PM | 26630 | 12/31/2013 | 10:09 AM | 26791 | 16.0 | \$ 50. | 00 | \$ 800.00 |
| Pelican Rapids | 10304 | Sales | N85 | 1/5/2014 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:00 PM | 305527 | 1/1/2014 | 9:00 AM | 305564 | 36.7 | \$ 50. | 00 | \$ 1,835.00 |
| Redwood Falls | 24175 | Sales | \$85 | 1/6/2014 | 9:00 AM | | | 0 | 1/5/2014 | 9:00 AM | 885168 | 1/8/2014 | 9:00 AM | 885182 | 14.2 | \$ 50. | 00 | \$ 710.00 |
| Redwood Falls | 24175 | Sales | \$85 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:00 AM | 903775 | 1/23/2014 | 9:00 AM | 903780 | 5.1 | S 50. | 00 | \$ 255.0 |
| Redwood Falls | 24175 | Sales | \$85 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:00 AM | 908175 | 1/28/2014 | 9:00 AM | 908184 | 9.2 | 5 50. | 00 | \$ 460.0 |
| Redwood Falls | 24175 | Sales | \$85 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:11 AM | 919942 | 2/11/2014 | 9:03 AM | 919959 | 17.3 | \$ 50. | 00 | \$ 865.0 |

COMMERCE DEPARTMENT

November 8

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| Request Number: | 22 | |
|--|---|--|
| Requested by: Email Address(es): angela.byrne@state. Phone Number(s): | Adam Heinen/Michael Ryan/Angela Byrr adam.heinen@state.mn.us; michael.ryai mn.us; stephen.rakow@state.mn.us 651-539-1825 | |
| Docket Number: Requested From: Type of Inquiry: | G999/AA-16-524 All Regulated Natural Gas Utilities General | □Nonpublic ⊠Public Date of Request: 11/8/2017 Response Due: 11/20/2017 |

| Request Number. | 22 |
|-----------------|---------------------------------------|
| Topic: | Distribution Planning |
| Reference(s): | Department Information Request No. 18 |

Request:

Please provide the above reference, including any and all subparts, updated to the most recent date available.

If this information has already been provided in the application or in response to an earlier Department-DER information request, please identify the specific cite(s) or Department-DER information request number(s).

To be completed by responder

Response Date: Response by: Email Address: Phone Number:

State of Minnesota

DEPARTMENT OF COMMERCE

DIVISION OF ENERGY RESOURCES

Utility Information Request

Docket Number: G999/AA-14-580 Date of Request: August 1, 2014 Requested From: All Regulated Minnesota Gas Utilities Response Due: September 2, 2014 Analyst Requesting Information: Michelle St. Pierre/Angela Byrne Type of Inquiry: []___Financial [].....Rate of Return []___Rate Design []___Forecasting []___Conservation [] Engineering [].....CIP []___Cost of Service []___Other:

If you feel your responses are trade secret, please indicate this on your response.

| Request No. | |
|----------------|--|
| 18 | Reference: Winter 2013-2014 Gas Interruptions |
| | Please provide a complete response to the following questions: |
| | (A) Please provide the excerpt(s) of your company's tariff relating to the interruption of gas service to interruptible customers, as well as any applicable curtailment penalties that may be assessed on those customers for non-compliance. |
| | (B) Are interruptible customers required to have a backup to replace natural gas service in the case of an interruption? If not, please explain why and/or what other mitigating circumstances negate the need for such a backup. |
| | (C) For interruptible customers with a backup system, is there a process to verify or test the backup system? If so, how frequently is this done? |
| | (Continued on next page) |
| | |
| Response | by: <u>Travis Jacobson</u> List sources of information: |
| Т | itle: Manager, Regulatory Affairs |
| Departm | ent: Regulatory Affairs |
| Telepho | one: (701) 222-7855 |

- (D) Did the company have a customer or customers that did not comply with an interruption during the 2013-2014 heating season? If so, please discuss each non-compliant customer individually, and answer the following questions for each curtailment period:
 - (1) How long did the customer continue to take natural gas service after the curtailment was declared?
 - (2) What volume of gas was consumed by the non-compliant customer during the curtailment period?
 - (3) How was the commodity rate determined that was consumed by the non-compliant customer? Was any
 - (4) Describe the financial penalty, if any, that was assessed by the company on customer. Provide all your calculations in determining the penalty.
 - (5) Is the company's financial penalty adequate enough to encourage compliance? If so, please explain why. If not, provide a proposal to modify the company's interruptible tariffs.

Pursuant to Ordering Paragraph No. 26 of the Minnesota Public Utilities Commission's April 3, 2012 Order in Docket No. G999/AA-10-885, please provide justification of any information designated as trade secret by your utility.

Response by: Travis Jacobson

List sources of information:

Title: Manager, Regulatory Affairs

Department: Regulatory Affairs

Telephone: (701) 222-7855

Response:

- (A) Please see Attachment A for curtailment revenue recorded in Miscellaneous Revenue.
- (B) No, the customers are not required to have a backup system. As the tariff states, interruptible customers must be able to curtail usage by switching to standby fuel source or suffer a plant shutdown. The tariff further states that the company may shut off the customer's supply of gas in the event the customer fails to curtail gas usage.
- (C) The company does not require the customer to periodically 'test' their backup system. It is the customer's responsibility to ensure their backup system is working properly.
- (D) Yes, Great Plains did have occurrences where customers did not comply with an interruption during the 2013-2014 heating season.
 - (1) The duration of unauthorized consumption after a curtailment was called is unknown. A start of curtailment reading is made and an end of curtailment reading is made. The difference in readings drives a calculation of unauthorized gas. No hourly telemetry is available in the GPNG service territory for interruptible sales accounts so there is no record of how many hours a customer continued to use. It is simply known that gas was consumed during the curtailment period.
 - (2) See Attachment B.
 - (3) The commodity rate was determined following the rate identified in the tariff.
 - (4) The financial penalty, as described in the tariff, was calculated by applying a \$50 per dekatherm charge for all unauthorized gas consumed during a curtailment period. The number of unauthorized dekatherms was calculated by converting the read increment to dekatherm based on the meter setup and applicable heat factor.
 - (5) At this time the company believes the penalty for failure to curtail is adequate to encourage compliance.

| Response by: | Travis Jacobson | List sources of information: |
|--------------|-----------------------------|------------------------------|
| Title: | Manager, Regulatory Affairs | |
| Department: | Regulatory Affairs | |
| Telephone: | (701) 222-7855 | |

| Account Info | rmation | | | | | | | | Startin | ng Meter Rea | d | End | Meter Read | | 5 | \$50/ dth Penalty | | | |
|--------------|-------------------|--------------------------------|-------------|---|---|-------------------------|-------------------------|-----------------------------|------------|--------------|-------------|------------|------------|-------------|----------------------|-------------------|-------------------|------|-----------------------|
| City | Account Number | <u>Customer</u> <u>Type</u> | <u>Rate</u> | <u>Curtailment</u> <u>Start Date</u> | <u>Curtailment</u> <u>Start Time</u> | Curtailment End Date | Curtailment End Time | <u>Dth</u> <u>Avail.</u> | Date | Time | <u>Read</u> | Date | Time | <u>Read</u> | Consumption (Dth) | | lty Rate /Dth) | - | Portion of Penalty |
| Breckenridge | 11410 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:10 AM | 957545 | 1/8/2014 | 9:34 AM | 957577 | 3.6 | \$ | 50.00 | \$ | 180.00 |
| Crookston | 21951 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:33 AM | 52021 | 1/8/2014 | 8:15 AM | 54403 | 314.2 | \$ | 50.00 | \$ 1 | 15,710.00 |
| Crookston | 21741 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:46 AM | 187899 | 1/8/2014 | 10:00 AM | 188101 | 200.6 | \$ | 50.00 | \$ 1 | 10,030.00 |
| Crookston | 21735 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:47 AM | 76148 | 1/8/2014 | 9:20 AM | 76926 | 86.6 | \$ | 50.00 | \$ | 4,330.00 |
| Crookston | 21749 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:48 AM | 62365 | 1/8/2014 | 10:00 AM | 63027 | 73.7 | \$ | 50.00 | \$ | 3,685.00 |
| Crookston | 21940 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:20 AM | 92823 | 1/8/2014 | 9:49 AM | 93056 | 49.9 | \$ | 50.00 | \$ | 2,495.00 |
| Crookston | 27339 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:58 AM | 14735 | 1/8/2014 | 10:20 AM | 14944 | 20.8 | \$ | 50.00 | \$ | 1,040.00 |
| Crookston | 21756 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:00 AM | 91192 | 1/8/2014 | 9:58 AM | 91394 | 20.1 | \$ | 50.00 | \$ | 1,005.00 |
| Crookston | 22037 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:22 AM | 36644 | 1/8/2014 | 9:37 AM | 36732 | 9.8 | \$ | 50.00 | \$ | 490.00 |
| Crookston | 20876 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:30 AM | 24075 | 1/8/2014 | 8:05 AM | 24148 | 7.2 | \$ | 50.00 | \$ | 360.00 |
| Crookston | 28321 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:00 AM | 54168 | 1/8/2014 | 9:45 AM | 54208 | 4.5 | \$ | 50.00 | \$ | 225.00 |
| Crookston | 20713 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:12 AM | 254376 | 1/8/2014 | 8:50 AM | 254411 | 3.7 | \$ | 50.00 | \$ | 185.00 |
| Crookston | 21951 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:21 AM | 66280 | 1/23/2014 | 8:27 AM | 67212 | 123.3 | \$ | 50.00 | \$ | 6,165.00 |
| Crookston | 21741 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:33 AM | 189525 | 1/23/2014 | 8:17 AM | 189561 | 35.9 | \$ | 50.00 | \$ | 1,795.00 |
| Crookston | 21735 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:51 AM | 79605 | 1/23/2014 | 7:42 AM | 79828 | 24.9 | \$ | 50.00 | \$ | 1,245.00 |
| Crookston | 21749 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:39 AM | 66439 | 1/23/2014 | 8:17 AM | 66645 | 23.0 | \$ | 50.00 | \$ | 1,150.00 |
| Crookston | 27339 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:59 AM | 15943 | 1/23/2014 | 7:57 AM | 16026 | 8.3 | \$ | 50.00 | \$ | 415.00 |
| Crookston | 21940 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:17 AM | 94883 | 1/23/2014 | 8:10 AM | 94909 | 5.6 | \$ | 50.00 | \$ | 280.00 |
| Crookston | 22046 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:01 AM | 36756 | 1/23/2014 | 7:52 AM | 36811 | 5.5 | \$ | 50.00 | \$ | 275.00 |
| Crookston | 22037 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:09 AM | 37737 | 1/23/2014 | 8:02 AM | 37765 | 3.1 | \$ | 50.00 | \$ | 155.00 |
| Crookston | 20876 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:22 AM | 24391 | 1/23/2014 | 7:32 AM | 24418 | 2.7 | \$ | 50.00 | \$ | 135.00 |
| Crookston | 28321 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:13 AM | 55572 | 1/23/2014 | 8:07 AM | 55591 | 2.1 | \$ | 50.00 | \$ | 105.00 |
| Crookston | 20713 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:26 AM | 257997 | 1/23/2014 | 9:05 AM | 258010 | 1.4 | \$ | 50.00 | \$ | 70.00 |
| Crookston | 21741 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:30 PM | 187255 | 12/31/2013 | 9:15 AM | 187338 | 82.4 | \$ | 50.00 | \$ | 4,120.00 |
| Crookston | 21749 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:36 PM | 60748 | 12/31/2013 | 9:18 AM | 61114 | 40.7 | \$ | 50.00 | \$ | 2,035.00 |
| Crookston | 21735 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 1:42 PM | 74451 | 12/31/2013 | 10:40 AM | 74909 | 51.0 | \$ | 50.00 | \$ | 2,550.00 |
| Crookston | 21951 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:50 AM | 49501 | 12/31/2013 | 9:25 AM | 49717 | 28.5 | \$ | 50.00 | \$ | 1,425.00 |
| Crookston | 22037 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 1:52 PM | 36206 | 12/31/2013 | 9:37 AM | 36272 | 7.3 | \$ | 50.00 | \$ | 365.00 |
| Crookston | 28321 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:56 AM | 53622 | 12/31/2013 | 10:56 AM | 53721 | 11.0 | \$ | 50.00 | \$ | 550.00 |
| Crookston | 21951 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:32 AM | 70177 | 1/28/2014 | 10:35 AM | 71330 | 151.6 | \$ | 50.00 | \$ | 7,580.00 |
| Crookston | 21741 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:05 AM | 189917 | 1/28/2014 | 11:10 AM | 189957 | 39.6 | \$ | 50.00 | \$ | 1,980.00 |
| Crookston | 27339 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:18 AM | 16213 | 1/28/2014 | 11:20 AM | 16586 | 36.9 | \$ | 50.00 | \$ | 1,845.00 |
| Crookston | 21735 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:51 AM | 80624 | 1/28/2014 | 9:13 AM | 80848 | 24.9 | \$ | 50.00 | \$ | 1,245.00 |
| Crookston | 21940 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:35 AM | 95400 | 1/28/2014 | 10:30 AM | 95451 | 10.9 | \$ | 50.00 | \$ | 545.00 |
| Crookston | 22037 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 10:07 AM | 38029 | 1/28/2014 | 9:27 AM | 38056 | 3.0 | \$ | 50.00 | \$ | 150.00 |
| Crookston | 20511 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:15 AM | 44349 | 1/28/2014 | 8:46 AM | 44366 | 1.9 | \$ | 50.00 | \$ | 95.00 |
| Crookston | 21951 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:40 AM | 83354 | 2/11/2014 | 9:53 AM | 84659 | 171.6 | \$ | 50.00 | \$ | 8,580.00 |
| Crookston | 21741 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:50 AM | 191409 | 2/11/2014 | 10:26 AM | 191448 | 38.6 | \$ | 50.00 | \$ | 1,930.00 |
| Crookston | 21940 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:34 AM | 97267 | 2/11/2014 | 9:50 AM | 97440 | 37.0 | \$ | 50.00 | \$ | 1,850.00 |
| Crookston | 21749 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 9:54 AM | 71548 | 2/11/2014 | 10:31 AM | 71769 | 24.5 | \$ | 50.00 | \$ | 1,225.00 |
| Crookston | 25145 | Sales | N71 | _ | | | 12:00 PM | | | 8:24 AM | 396948 | | 8:39 AM | 396954 | 5.9 | \$ | 50.00 | \$ | 295.00 |

Response No. 18 Attachment B Page 1 of 2

| Account Info | rmation | | | | | | | | Startin | ng Meter Rea | ad | End | Meter Read | | \$ | 50/ d | th Penalty | - | |
|----------------|-------------------|------------------|------|---------------------------|---------------------------|-------------------------|-------------------------|-----------------------------|------------|--------------|--------|------------|-------------|--------|----------------------|-------|----------------------|----|------------------------|
| City | Account Number | Customer Type | Rate | Curtailment Start Date | Curtailment Start Time | Curtailment End Date | Curtailment End Time | <u>Dth</u> <u>Avail.</u> | Date | Time | Read | Date | <u>Time</u> | Read | Consumption (Dth) | | alty Rate \$/Dth) | |) Portion o Penalty |
| Crookston | 22037 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 10:05 AM | 39270 | 2/11/2014 | 9:45 AM | 39292 | 2.4 | \$ | 50.00 | \$ | 120.00 |
| Crookston | 20713 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 12:00 PM | 0 | 2/10/2014 | 8:28 AM | 262394 | 2/11/2014 | 8:43 AM | 262409 | 1.6 | \$ | 50.00 | \$ | 80.00 |
| Dawson | 24169 | Sales | S85 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | | | | | | | 319.7 | \$ | 50.00 | \$ | 15,985.00 |
| Fergus Falls | 6320 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 11:16 AM | 89087 | 1/8/2014 | 8:27 AM | 89581 | 55.0 | \$ | 50.00 | \$ | 2,750.00 |
| Fergus Falls | 7861 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 12:00 AM | 40910 | 1/8/2014 | 9:23 AM | 41028 | 13.1 | \$ | 50.00 | \$ | 655.00 |
| Fergus Falls | 28650 | Sales | N71 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 10:19 AM | 49618 | 1/8/2014 | 9:42 AM | 49694 | 8.5 | \$ | 50.00 | \$ | 425.00 |
| Fergus Falls | 7861 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 10:44 AM | 41932 | 1/23/2014 | 9:05 AM | 42022 | 10.0 | \$ | 50.00 | \$ | 500.00 |
| Fergus Falls | 8230 | Sales | N71 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:20 AM | 45267 | 1/23/2014 | 8:58 AM | 45342 | 8.3 | \$ | 50.00 | \$ | 415.00 |
| Fergus Falls | 8456 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 11:20 AM | 49104 | 12/31/2013 | 9:57 AM | 49299 | 21.7 | \$ | 50.00 | \$ | 1,085.00 |
| Fergus Falls | 7861 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 10:57 AM | 40578 | 12/31/2013 | 10:44 AM | 40645 | 7.5 | \$ | 50.00 | \$ | 375.00 |
| Fergus Falls | 8670 | Sales | N71 | 12/29/2013 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:59 PM | 6897 | 12/31/2013 | 10:04 AM | 7064 | 25.5 | \$ | 50.00 | \$ | 1,275.00 |
| Fergus Falls | 7861 | Sales | N71 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 8:37 AM | 42298 | 1/28/2014 | 9:33 AM | 42322 | 2.6 | \$ | 50.00 | \$ | 130.00 |
| Fergus Falls | 6320 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:52 AM | 93561 | 2/11/2014 | 9:05 AM | 93709 | 16.3 | \$ | 50.00 | \$ | 815.00 |
| Fergus Falls | 7861 | Sales | N71 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:57 AM | 43267 | 2/11/2014 | 9:23 AM | 43287 | 2.2 | \$ | 50.00 | \$ | 110.00 |
| Montevideo | 24169 | Sales | 585 | 12/29/2013 | 12:00 PM | | | 0 | 1/5/2014 | | | 1/8/2014 | | | 35.2 | \$ | 50.00 | \$ | 1,760.00 |
| Montevideo | 15156 | Sales | S85 | 1/5/2014 | 9:00 AM | 1/8/2014 | 12:00 PM | 0 | 1/5/2014 | 9:27 AM | 181139 | 1/8/2014 | 10:00 AM | 181442 | 30.8 | \$ | 50.00 | \$ | 1,540.00 |
| Montevideo | 15156 | Sales | S85 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:04 AM | 183799 | 1/23/2014 | 1:45 PM | 183837 | 3.9 | \$ | 50.00 | \$ | 195.00 |
| Pelican Rapids | 10077 | Sales | N71 | 1/3/2014 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 2:16 PM | 26630 | 12/31/2013 | 10:09 AM | 26791 | 16.0 | \$ | 50.00 | \$ | 800.00 |
| Pelican Rapids | 10304 | Sales | N85 | 1/5/2014 | 12:00 PM | 12/31/2013 | 9:00 AM | 0 | 12/29/2013 | 12:00 PM | 305527 | 1/1/2014 | 9:00 AM | 305564 | 36.7 | \$ | 50.00 | \$ | 1,835.00 |
| Redwood Falls | 24175 | Sales | S85 | 1/6/2014 | 9:00 AM | | | 0 | 1/5/2014 | 9:00 AM | 885168 | 1/8/2014 | 9:00 AM | 885182 | 14.2 | \$ | 50.00 | \$ | 710.00 |
| Redwood Falls | 24175 | Sales | S85 | 1/22/2014 | 9:00 AM | 1/23/2014 | 9:00 AM | 0 | 1/22/2014 | 9:00 AM | 903775 | 1/23/2014 | 9:00 AM | 903780 | 5.1 | \$ | 50.00 | \$ | 255.00 |
| Redwood Falls | 24175 | Sales | S85 | 1/27/2014 | 9:00 AM | 1/28/2014 | 9:00 AM | 0 | 1/27/2014 | 9:00 AM | 908175 | 1/28/2014 | 9:00 AM | 908184 | 9.2 | \$ | 50.00 | s | 460.00 |
| Redwood Falls | 24175 | Sales | S85 | 2/10/2014 | 9:00 AM | 2/11/2014 | 9:00 AM | 0 | 2/10/2014 | 9:11 AM | 919942 | 2/11/2014 | 9:03 AM | 919959 | 17.3 | \$ | 50.00 | \$ | 865.00 |



705 West Fir Avenue Mailing Address: P.O. Box 176 Fergus Falls, MN 56538-0176 (218) 736-6935 August 31, 2017

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

> Re: Annual Report; Automatic Adjustment Docket No. E, G999/AA-17-____

Dear Mr. Wolf:

Great Plains Natural Gas Co. (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically submits its Annual Report of Automatic Adjustment of Gas Charges (AAA), pursuant to Minnesota Rule 7825.2800 – 7825.2830.

In support of the filing Great Plains has attached the following:

Exhibit A – North District: Summary of Gas Costs Recovered Degree Day and Volume Information Exhibit B – South District: Summary of Gas Costs Recovered Degree Day and Volume Information Exhibit C – Independent Auditor's Report reviewing the accounting procedures of Great Plains' purchased gas adjustment

- Exhibit D Schedule of Contractor Main Strikes
- Exhibit E Meter Testing Updates
- Exhibit F Curtailment Requirements and Penalties

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

Sincerely,

Ist Tamie. A. Aberle

Tamie A. Aberle Director of Regulatory Affairs

cc: Brian M. Meloy

natural gas from increasing significantly. The potential shift of electric generation from coal to gas and new generation fueled by natural gas may result in higher natural gas prices in the longer term.

Contractor Main Strikes

Pursuant to the Order in Docket No. G-999/AA-10-885, the total cost of lost gas due to main strikes of \$1,674 was credited to the cost of gas prior to the determination of the cost of gas charged to the customer classes. Therefore, there is not an amount allocated to firm and interruptible customers in this GCR. See Exhibit D for Great Plains' Contractor Main Strike information.

Meter Testing Updates

Great Plains' meter testing plan is set forth in Section 7 of its Gas Distribution Standards as originally submitted on June 4, 2012 in Docket No. E,G999/AA-10-885. Several minor modifications were made to the Gas Meter Testing Section of the Gas Distribution Standards in 2013, which were reported in an update to Docket No. G999/AA-14-580. Section 7 was again revised in 2015, however, the revisions did not affect the meter testing plan.

Section 7 of the Gas Distribution Standards was updated in 2016 to remove the reference to mechanical correcting indexes on Page 15, along with a clarifying change in the title of this section to "Indexes and Electronic Correctors."

There have been no updates regarding meter testing to Section 7 of the Gas Distribution Standards within the annual period covered by this AAA filing.

Great Plains continues to test meters based on random sampling of new and installed meters along with testing the large capacity meters on a periodic basis. See Exhibit E for Section 7 of the Gas Distribution Standards related to testing gas meters.

Curtailment Requirements and Penalties

Pursuant to the Order in Docket No. G999/AA-14-580, regulated natural gas utilities shall provide information on unauthorized gas use for each customer that did not comply with a called interruption(s) during the heating season. See Exhibit F for Great Plains' curtailment activities.

Docket No. G004/M-18-454 Supplemental Comments DOC Attachment 3 Page 19 of 38

> Exhibit F Page 1 of 3

GREAT PLAINS NATURAL GAS CO.

CURTAILMENT REQUIREMENTS AND PENALTIES

JULY 2016 - JUNE 2017

Great Plains' curtailment requirements and penalties information:

- a. Five Curtailment events occurred during the period beginning July 2016 through June 2017:
 - 1) 9:00 a.m. on 8/29/16 until 9:00 a.m. on 8/30/16
 - One customer was requested to curtail gas usage
 - The customer complied with the request
 - 2) 9:00 a.m. on 12/17/16 until 9:00 a.m. on 12/18/16
 - Two customers were requested to curtail gas usage
 - Both customers complied with the request
 - 3) 9:00 a.m. on 12/18/16 until 9:00 a.m. on 12/19/16
 - Two customers were requested to curtail gas usage
 - Both customers complied with the request
 - 4) 9:00 a.m. on 12/19/16 until 9:00 a.m. on 12/20/16
 - Two customers were requested to curtail gas usage
 - Both customers complied with the request
 - 5) 9:00 a.m. on 1/4/17 until 9:00 a.m. on 1/6/17
 - Four customers were requested to curtail gas usage
 - All customers complied with the request

In addition, grain drying customers were not allowed to run during the following gas days due to transmission pipeline System Overrun Limit (SOL) constraints:

| Start Date | End Date | Non-Compliant Customers |
|------------|----------|--------------------------------|
| 12/17/16 | 12/19/16 | |
| 1/3/17 | 1/6/17 | |
| 1/11/17 | 1/14/17 | |
| 1/15/17 | 1/17/17 | |
| 2/1/17 | 2/2/17 | |
| 2/7/17 | 2/8/17 | |
| 3/10/17 | 3/10/17 | |
| 3/14/17 | 3/15/17 | One Customer was non-compliant |

Exhibit F Page 2 of 3

b. The volume of gas consumed by the non-compliant customer during the curtailment period.

| Date | MCF | BTU | Dk | | |
|------------------------------------|--------------|----------------|-------------------------|----------|------------------------|
| 3/14/2017 | 244.3188 | 1.019 | 248.9609 | | |
| 3/15/2017 | 51.0024 | 1.019 | 51.9714 | | |
| | | | 300.9323 | | |
| | | | | | |
| | | | | | |
| | | Dk | Rate | | Penalty |
| Unauthorized | d Gas Charge | Dk 300.9323 | Rate \$ 50.00 | . 1/ | Penalty \$15,046.62 |
| Unauthori <i>zed</i> Penalty 1/ | d Gas Charge | | | 1/ 2/ | |

1/ Penalty rate of \$50.00 per dk per North District Large Interruptible Gas Sales Service Tariff.

2/ Rate is difference between Firm rate of \$5.7795 and IT rate of \$4.1796.

c. The specific commodity rate charged for the unauthorized gas used and how that rate is determined.

Please see Response b. above.

d. The financial penalty, if any, assessed by the company to the customer, including calculations in determining the penalty or penalties.

Please see Response b. above.

Exhibit F Page 3 of 3

e. A discussion about utility communication with each customer regarding noncompliance with interruptions (excluding invoices).

Northern Natural Gas (NNG) issued a System Overrun Limit (SOL) for March 14 & 15, 2017. During an SOL, NNG allocates storage so Great Plains cannot make same day or real-time storage adjustments to account for a grain dryer's additional usage. Also, if purchases have already been made for the gas day, Great Plains does not have the ability to purchase more supply to cover a dryer's additional demand. In these situations, Great Plains does not allow grain dryers to run.

On March 14, 2017, a gain-drying customer called requesting to run their grain dryers on March 14 and 15. They were informed that due to the colder systemwide temps, the pipeline that Great Plains uses to get natural gas to the customer is in constraints for both days. Customer was informed that when the pipeline is in constraints, Great Plains cannot allow any grain dryers to run.

Customer disregarded instructions to not run, and used approximately 301 dk of gas over the curtailment period.

| Docket Number: Requested From: Type of Inquiry: | G999/AA-18-374 All Regulated Minnesota Gas Utilities General | □Nonpublic ⊠Public Date of Request: 10/9/2018 Response Due: 11/8/2018 |
|---|--|---|
| Requested by: Email Address(es): Phone Number(s): | Angela Byrne angela.byrne@state.mn.us 651-539-1820 | |
| Request Number: Topic: Reference(s): | 18 Distribution Planning Department Information Request No. | . 22, Docket No. G999/AA-16-524 |

Request:

Please provide the above reference, updated to the most recent data available. Data should begin where the utility's previous data ended in its most recent, updated response (March 2017 for Great Plains, November 2017 for all other utilities). For reference, the request has been duplicated below.

If this information has already been provided in the application or in response to an earlier Department-DER information request, please identify the specific cite(s) or Department-DER information request number(s).

- A. Please provide a detailed discussion of how the utility plans, constructs, and maintains its distribution system. As part of this response, include a discussion about how the utility decides to add capacity or expand in to new, or growing, service territory.
- B. Please provide daily throughput data, by each individual Town Border Station (TBS) or delivery point, on the utility's system since November 1, 2012. If available, please provide these data divided by firm, interruptible, and transport load. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- C. Please provide the number of interruption days, by TBS or delivery point, by month since November 2012. To the extent possible, please identify the number of interruption days that are non-weather related (*e.g.*, reliability purposes). Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- D. Please provide, on a daily basis since November 1, 2012 by TBS or delivery point, the maximum deliverable throughput by customer type. Please also provide these data in Microsoft Excel format with all links, and formulae intact.

Response Date:November 8, 2018Response by:Travis Jacobson, Manager, Regulatory AffairsEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855

To be completed by responder

| Docket Number: | G999/AA-18-374 | □Nonpublic ⊠Public |
|---|--|----------------------------|
| Requested From: | All Regulated Minnesota Gas Utilities | Date of Request: 10/9/2018 |
| Type of Inquiry: | General | Response Due: 11/8/2018 |
| Requested by: Email Address(es): Phone Number(s): | Angela Byrne angela.byrne@state.mn.us 651-539-1820 | |

- E. Please provide, by TBS or delivery point, on a daily basis since November 1, 2012 the percentage of deliverable capacity subscribed by the utility. If applicable, please identify other parties, and their percentages of subscribed capacity, at the TBS. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- F. Please provide the following forecasted data, in Microsoft Excel format with all links and formulae intact, by TBS, or delivery point, for the next three heating seasons. If the utility expects daily fluctuation, please provide these data on a daily basis:
 - a. Total utility throughput, if possible, divided by customer type (*i.e.*, firm, interruptible, transport); and
 - b. Expected firm and total throughput available at the TBS or delivery point.
- G. Please provide maps, by county, identifying the location (and name) of any, and all, TBSs or delivery points on the utility's system. If possible, please provide these maps in pdf and GIS executable formats.
 - a. Please identify, by county, on the maps in Part F, the location of any, and all, transmission assets on the utility's system.
 - b. If the utility has an affiliate transmission or intrastate pipeline utility, please also identify these assets on the maps provided in Part F, by county.

Response:

- A. No change.
- B. Please see the attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18" within worksheet titled "IR No. 18.B". Great Plains does not track daily throughput by firm, interruptible, and transport load.
- C. Please see the attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18" within worksheet titled "IR No. 18.C".

To be completed by responder

Response Date:November 8, 2018Response by:Travis Jacobson, Manager, Regulatory AffairsEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855

| Docket Number: | G999/AA-18-374 | □Nonpublic ⊠Public |
|---|--|----------------------------|
| Requested From: | All Regulated Minnesota Gas Utilities | Date of Request: 10/9/2018 |
| Type of Inquiry: | General | Response Due: 11/8/2018 |
| Requested by: Email Address(es): Phone Number(s): | Angela Byrne angela.byrne@state.mn.us 651-539-1820 | |

- D. No change.
- E. Great Plains Natural Gas does not track historical delivery point capacities; therefore, does not identify the percentage of subscribed capacity. Please see the current percentage of deliverable capacity in the attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18" within worksheet titled "IR No. 18.E".
- F. a. Please see the attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18" within worksheet titled "IR No. 18.F.a".
 - b. Please see the current percentage of deliverable capacity in the attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18" within worksheet titled "IR No. 18.E".
- G. No Change.

To be completed by responder

Response Date:November 8, 2018Response by:Travis Jacobson, Manager, Regulatory AffairsEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.B

| | | | Redwood Falls MN #1 | Marshall MN #1 | Belview MN #1 | Boyd MN #1 | Clarkfield MN #1 | Danube MN #1 | Echo MN #1 | Granite Falls MN #1 | Montevideo MN #1 | Sacred Heart MN #1 | Wood Lake MN #1 | Renville MN #7 | Crookston | Fergus Falls |
|--|-----|----------------|---------------------|----------------|---------------|------------|------------------|--------------|------------|---------------------|------------------|--------------------|-----------------|----------------|----------------|------------------|
| 4/1/2018 4/2/2018 | | 2,430 | 1,286 | 2,870 | /8 | 39 | 186 | 127 | 63 | 835 | 1,614 | 131 | | | | (N4 + W) |
| 4/3/2018 | | 2,901 3.015 | 2,742 | | | | | 283 | 74 | 905 | 1.846 | 131 | 91 107 | 5,543 | 2,281 | 13,72 |
| 4/4/2018 | | 2,411 | 3,321 3,120 | ., | | | | 159 | 86 | 1,141 | | 189 | 130 | 5,997 5,263 | 4,674 | |
| 4/5/2018 | | 2,502 | 3,120 | | 88 | | | 146 | 71 | 948 | 1,924 | 154 | 108 | 5,889 | 4,443 4,572 | |
| 4/6/2018 | | 2,736 | 3,202 | | | | | 124 | 66 | 882 | 1,835 | 134 | 106 | 5,702 | 3,705 | |
| 4/7/2018 | | 2,460 | 2,313 | | 109 84 | | | 160 | 87 | 1,109 | 2,304 | 160 | 129 | 5,760 | 4,501 | 14,775 |
| 4/8/2018 | | 2,452 | 1,376 | | • • | 41 | | 127 | 69 | 849 | 1,745 | 122 | 86 | 2,355 | 4,224 | 16,762 |
| 4/9/2018 | 299 | 2,421 | 2,533 | | | | | 133 | 71 | 915 | 1,850 | 143 | 99 | 79 | 4,108 | 17,575 |
| 4/10/2018 | 248 | 2,235 | 2,608 | | | | 173 746 | 103 | 58 | 767 | 1,491 | 120 | 85 | 75 | 4,414 | 17,159 |
| 4/11/2018 | | 2,233 | 2,983 | | | 29 | | 230 228 | 52 54 | 675 | 1,298 | 102 | 71 | 129 | 4,242 | |
| 4/12/2018 | | 2,066 | 2,672 | 2,530 | 51 | | 869 | 228 | 54 45 | 633 | 1,277 | 91 | | 2,838 | 3,748 | 16,204 |
| 4/13/2018 | | 2,459 | 3,252 | 3,245 | 92 | | | 131 | 43 | 606 851 | 1,261 | 81 | | 3,947 | 4,198 | 16,138 |
| 4/14/2018 | | 2,491 | 2,020 | | 101 | . 44 | 214 | 149 | 75 | 960 | 1,818 1,967 | 120 136 | 97 | 5,824 | 4,122 | 17,401 |
| 4/15/2018 | | 2,470 | 1,328 | | | 38 | 194 | 120 | 65 | 859 | 1,587 | 136 | 101 | 5,494 | 3,820 | 17,233 |
| 4/15/2018 4/17/2018 | | 2,396 | 2,122 | -, | | | 324 | 105 | 61 | 772 | 1,557 | 135 | 94 | 5,940 | 3,997 | 17,025 |
| 4/18/2018 | | 2,345 | 2,724 | | 65 | | | 87 | 52 | 658 | 1,290 | 98 | 91 73 | 4,539 | 3,231 | 16,641 |
| 4/19/2018 | | 2,319 1,776 | 2,931 | -, | | | | 104 | 55 | 732 | 1,400 | 111 | 73 84 | 4,079 4,074 | 3,709 | 15,663 |
| 4/20/2018 | | 2,166 | 2,749 2,926 | | | | | 80 | 46 | 594 | 1,199 | 78 | | 4,074 4,302 | 3,713 3,514 | 15,144 |
| 4/21/2018 | | 2,183 | 2,926 | | 44 | | | 73 | 49 | 519 | 1,116 | 67 | 55 | 4,302 | 3,514 3,214 | 14,472 |
| 4/22/2018 | | 2,211 | 548 | 1,968 1,796 | | ~- | 102 | 63 | 39 | 390 | 892 | 53 | | 4,768 | 2,452 | 14,607 13,570 |
| 4/23/2018 | 105 | 2,365 | 1,570 | | 30 19 | | 80 | 38 | 33 | 355 | 760 | 42 | | 3,183 | 3,177 | 12,100 |
| 4/24/2018 | 172 | 2,725 | 2,617 | | | | | 26 | 28 | 288 | 591 | 31 | 26 | 3,511 | 2,896 | 11,393 |
| 4/25/2018 | 143 | 2,420 | 2,411 | | 29 | | | 66 43 | 37 | 478 | 973 | 69 | 54 | 4,083 | 3,625 | 11,192 |
| 4/26/2018 | | 2,245 | 2,112 | | | | | 43 | 32 34 | 375 | 792 | 50 | | 5,220 | 3,548 | 10,864 |
| 4/27/2018 | | 2,111 | 2,595 | 1,793 | 28 | | 224 | 36 | 54 29 | 373 | 732 | 49 | | 5,105 | 3,361 | 12,448 |
| 4/28/2018 | | 2,038 | 1,197 | | | | | 38 | 25 | 357 317 | 812 | 42 | 37 | 4,357 | 3,042 | 13,789 |
| 4/29/2018 | | 1,925 | 315 | | 16 | | 53 | 26 | 18 | 197 | 727 477 | 41 | | 2,685 | 3,140 | 13,191 |
| 4/30/2018 | | 1,467 | 1,573 | | 9 | 5 | 171 | 31 | 13 | 170 | 477 | 24 | | 4,865 | 2,979 | 12,096 |
| 5/1/2018 5/2/2018 | | 2,096 | 2,190 | | 16 | | 156 | 39 | 19 | 263 | 711 | 16 26 | | 4,898 | 3,343 | 12,827 |
| 5/3/2018 | | 1,869 | 2,164 | | 14 | | 191 | 22 | 15 | 206 | 460 | 25 | | 4,975 | 3,576 | 14,198 |
| 5/4/2018 | | 1,866 1,845 | 1,876 | | 12 | | 212 | 12 | 31 | 182 | 457 | 19 | | 6,401 5,687 | 3,258 2,953 | 12,168 |
| 5/5/2018 | | 1,822 | 2,179 1,104 | | | 4 | 30 | 9 | 51 | 143 | 372 | 11 | | 5,520 | 2,955 | 11,901 11,635 |
| 5/6/2018 | | 1,817 | 1,104 | | 7 | 4 | 21 | 7 | 9 | 116 | 305 | 10 | | 5,763 | 2,630 | 10,927 |
| 5/7/2018 | | 1,767 | 1,126 | | | 3 | 21 | 9 | 20 | 119 | 321 | 11 | 5 | 5,052 | 2,724 | 11,019 |
| 5/8/2018 | 45 | 1,826 | 2,099 | | | 3 | 17 | 6 | 54 | 109 | 327 | 11 | 3 | 5,748 | 2,961 | 10,212 |
| 5/9/2018 | | 1,888 | 1,850 | | | - | 18 26 | 12 13 | 10 | 130 | 350 | 15 | | 5,985 | 3,235 | 9,467 |
| 5/10/2018 | | 1,834 | 2,098 | | | - | 28 51 | 24 | 14 19 | 179 | 381 | 19 | | 6,100 | 3,598 | 11,981 |
| 5/11/2018 | | 1,932 | 2,443 | | 25 | | | 34 | 25 | 250 268 | 583 | 25 | | 6,062 | 3,473 | 12,455 |
| 5/12/2018 | | 2,024 | 1,002 | 1,215 | 21 | | 56 | 32 | 21 | 208 | 637 592 | 34 | 25 | 5,929 | 3,031 | 11,719 |
| 5/13/2018 | | 1,926 | 213 | | 9 | 4 | 25 | 12 | 9 | 130 | 344 | 30 | | 4,326 | 2,739 | 11,162 |
| 5/14/2018 5/15/2018 | | 1,883 | 1,702 | -, | 9 | 4 | 26 | 12 | 12 | 155 | 344 | 14 14 | 7 | 359 | 2,788 | 10,684 |
| 5/16/2018 | | 1,549 | 1,781 | | | 3 | 19 | 10 | 10 | 124 | 379 | 14 | | 33 | 3,080 | 11,086 |
| 5/17/2018 | | 1,764 1,898 | 1,861 | | | 3 | 17 | 7 | 8 | 110 | 354 | 14 | | 1,851 2,085 | 2,913 | 10,955 |
| 5/18/2018 | | 1,898 | 1,742 | | 7 | 3 | 17 | 6 | 7 | 113 | 337 | 14 | | 6,064 | 2,759 2,555 | 10,500 |
| 5/19/2018 | | 1,881 | 1,991 1,292 | | | • | 18 | 8 | 9 | 124 | 373 | 11 | | 6,057 | 2,555 915 | 11,101 11,663 |
| 5/20/2018 | | 1,822 | 222 | | 12 | - | 34 | 15 | 12 | 152 | 422 | 17 | 8 | 2,768 | 570 | 11,005 |
| 5/21/2018 | | 1,705 | 1,629 | | 9 | 4 | 23 | 12 | 11 | 119 | 324 | 14 | 8 | 31 | 608 | 11,088 |
| 5/22/2018 | | 1,993 | 2,156 | | 9 | 4 | 30 | 16 | 11 | 162 | 424 | 17 | 13 | 295 | 743 | 11,149 |
| 5/23/2018 | 52 | 1,982 | 1,835 | | | | 6 | 9 | 9 | 125 | 371 | 14 | 4 | 217 | 766 | 11,434 |
| 5/24/2018 | | 1,843 | 1,924 | | 7 | 3 | - 36 | 7 | 8 | 113 | 352 | 14 | 3 | 426 | 620 | 11,550 |
| 5/25/2018 | | 1,745 | 2,073 | 1,031 | 5 | | 124 | 7 | 8 | 104 92 | 321 330 | 11 | - | 191 | 631 | 11,463 |
| 5/26/2018 | | 1,766 | 1,217 | | 5 | 3 | 11 | 5 | 7 | 92 82 | 282 | 8 | 1 | 205 | 415 | 11,420 |
| 5/27/2018 | | 1,736 | 126 | | 5 | 2 | | 4 | , , | 85 | 282 | 9 | 1 | 161 | 275 | 9,897 |
| 5/28/2018 | | 1,772 | 149 | 812 | 5 | 2 | 14 | 5 | 6 | 87 | 239 | 9 | 1 | 225 | 287 | 9,799 |
| 5/29/2018 5/30/2018 | | 1,809 | 1,504 | | 5 | 3 | 212 | 7 | 8 | 108 | 336 | 8 | 1 | 424 | 537 | 10,171 |
| 5/30/2018 | | 1,921 | 1,954 | | - | 3 | 208 | 75 | 8 | 111 | 370 | 14 | 1 | 559 459 | 704 | 10,370 |
| 6/1/2018 | | 1,813 1,884 | 2,042 | | 5 | 3 | 196 | 523 | 7 | 95 | 312 | 10 | | 459 394 | 611 736 | 11,468 |
| 6/2/2018 | | 1,884 | 2,094 1,673 | | 5 | - | 114 | 220 | 8 | 99 | 311 | 7 | 1 | 566 | 736 500 | 10,785 11,056 |
| -, -, -, -, -, -, -, -, -, -, -, -, -, - | | 1,504 | 1,0/3 | 835 | 5 | 3 | 16 | 46 | 8 | 111 | 327 | 10 | | 586 | 200 | 11,030 |

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.B

| | | | Redwood Fails MN #1 | Trial Shar Mile #1 | DEMISM MINH #1 | POAG WIN #1 | Clarkfield MN #1 | Danube MN #1 | Echo MN #1 (| Granite Falls MN #1 | Montevideo MN #1 | Sacred Heart MN #1 | Wood Lake MN #1 | Renville MN #2 | Crooket | Fergus Fa |
|------------------------|----------|----------------|---------------------|--------------------|----------------|-------------|------------------|--------------|--------------|---------------------|------------------|---|-----------------|----------------|------------|-----------|
| 6/3/2018 6/4/2018 | 42 | 1,817 | /02 | 901 | 5 | 3 | 19 | 8 | | 116 | 334 | and the second se | | | | (N4 + W) |
| 6/5/2018 | 39 41 | 1,733 | 1,680 | 1,079 | | - | 16 | 6 | 8 | 107 | 311 | 10 10 | - | | | |
| 6/6/2018 | 39 | 1,834 1,896 | 1,633 | -, | | - | 76 | 190 | 8 | 99 | 312 | 10 | | | | |
| 6/7/2018 | 36 | 1,896 | 2,022 | | | - | 218 | 268 | 8 | 112 | 362 | 13 | | | 779 | |
| 6/8/2018 | 41 | 1,839 | 2,057 1,864 | 1,121 | | • | 169 | 694 | 8 | 110 | 347 | 10 | | 327 | 825 | |
| 6/9/2018 | 38 | 1,950 | 1,864 | 923 843 | 9 | - | 116 | 217 | 7 | 101 | 339 | 8 | | 117 | 602 439 | |
| /10/2018 | 37 | 1,907 | 601 | 920 | 5 | | 24 | 5 | 8 | 96 | 304 | 10 | 1 | | 439 | |
| 6/11/2018 | 47 | 1,866 | 1,600 | 1,118 | 6 | - | 25 | 21 | 8 | 97 | 281 | 9 | 1 | | 407 | |
| 5/12/2018 | 49 | 2,006 | 1,895 | 1,221 | | 5 | 27 | 281 | 10 | 120 | 345 | 11 | | | 734 | |
| /13/2018 | 74 | 1,953 | 1,977 | 1,391 | 6 | 5 | 53 | 226 | 8 | 127 | 343 | 15 | 5 | | | |
| /14/2018 | 39 | 1,874 | 2,155 | 1,538 | 5 | | 150 51 | 47 | 8 | 118 | 323 | 12 | 1 | | 688 | |
| /15/2018 | 31 | 1,780 | 2,067 | 1,106 | - | 5 | 17 | 278 | 8 | 103 | 312 | 8 | t | 4,420 | | |
| 5/16/2018 | 35 | 1,872 | 969 | 670 | 5 | - | 11 | 2 | 8 | 88 | 320 | 7 | 1 | 4,203 | | |
| 5/17/2018 | 37 | 1,905 | 145 | 818 | 6 | ~ | 17 | 2 | 7 | 79 | 238 | 8 | - | 3,600 | 409 | |
| 5/18/2018 | 43 | 1,402 | 1,277 | 1,045 | 5 | - | 23 | 5 | 8 | 83 | 274 | 8 | - | 632 | 463 | |
| 6/19/2018 | 44 | 330 | 2,265 | 1,130 | 6 | | 35 | 5 | 8 | 105 117 | 342 | 9 | 3 | | 753 | 9, |
| 5/20/2018 | 43 | 128 | 2,022 | 1,152 | 6 | 3 | 118 | 6 | 8 | 117 | 357 | 10 | - | | 834 | 9, |
| 5/21/2018 | 44 | 32 | 2,026 | 1,163 | 6 | 3 | 24 | 75 | 8 | 109 | 321 | 12 | | | 722 | |
| 5/22/2018 | 37 | 14 | 1,979 | 938 | 10 | 2 | 27 | 4 | 7 | 109 | 354 320 | 10 | - | | 594 | |
| 5/23/2018 5/24/2018 | 40 | - | 1,252 | 797 | 5 | 2 | 24 | 4 | 8 | 88 | 291 | 8 | 1 | | 494 | |
| 5/24/2018 | 42 | 22 | 162 | 898 | 5 | 2 | 19 | 5 | 7 | 95 | 304 | 8 | - | 626 | 427 | |
| 6/26/2018 | 43 47 | 111 | 1,387 | 1,103 | 5 | 3 | 200 | 5 | 8 | 106 | 319 | ð Э | - | 655 | 540 | , |
| 5/27/2018 | 47 | 409 568 | 1,868 | 1,171 | 6 | - | 102 | 6 | 8 | 104 | 341 | 9 14 | 1 | | 707 | , |
| 5/28/2018 | 42 | 1,559 | 1,974 | 1,022 | - | • | 60 | 61 | 8 | 98 | 325 | 14 | | | 708 | |
| 5/29/2018 | 36 | 1,335 | 2,046 | 1,013 | 5 | - | 170 | 154 | 8 | 98 | 277 | 9 | - | 647 646 | 737 | |
| 5/30/2018 | 35 | 1,831 | 1,624 1,710 | 840 716 | 5 | - | 14 | 169 | 7 | 81 | 297 | 7 | | 625 | 559 407 | - |
| 7/1/2018 | 33 | 1,913 | 565 | 812 | 5 | - | 14 | - | 8 | 81 | 265 | 7 | - | 650 | 407 | -, |
| 7/2/2018 | 40 | 1,905 | 1,101 | 1,100 | 5 | - | 14 | 2 | 7 | 87 | 260 | 8 | - | 612 | 479 574 | |
| 7/3/2018 | 35 | 1,894 | 1,744 | 955 | 5 | 2 | 31 | 8 | 8 | 93 | 311 | 8 | 1 | 287 | 582 | |
| 7/4/2018 | 38 | 1,947 | 1,575 | 848 | 5 | 2 | 149 | 65 | 8 | 92 | 309 | 7 | 2 | | 565 | |
| 7/5/2018 | 32 | 1,953 | 1,635 | 930 | 5 | | 15 | 4 | 7 | 84 | 171 | 8 | - | 435 | 421 | |
| 7/6/2018 | 35 | 1,871 | 1,757 | 829 | 4 | - | 15 13 | 31 4 | 8 | 94 | 296 | 8 | - | 236 | 553 | |
| 7/7/2018 | 37 | 1,753 | 1,346 | 662 | 4 | | 13 | 4 | 8 7 | 90 | 289 | 8 | - | 188 | 469 | |
| 7/8/2018 | 37 | 1,773 | 323 | 867 | 5 | - | 15 | 2 | | 72 | 245 | 8 | - | 186 | 369 | |
| 7/9/2018 | 41 | 2,010 | 1,171 | 1,050 | 5 | - | 15 | 2 | 8 | 75 92 | 234 | 8 | - | 228 | 506 | |
| 7/10/2018 | 39 | 1,854 | 2,000 | 1,116 | 5 | | 17 | 5 | 8 | 92 | 297 | 8 | - | 431 | 688 | 11,0 |
| 7/11/2018 | 39 | 1,772 | 1,850 | 1,033 | 5 | 2 | 43 | 3 | 7 | 84 | 305 | 13 | - | 189 | 614 | 10, |
| 7/12/2018 7/13/2018 | 40 | 1,797 | 1,675 | 1,087 | 5 | 2 | 159 | 3 | 8 | 97 | 306 306 | 12 | | 450 | 597 | |
| 7/14/2018 | 32 30 | 1,928 | 1,815 | 943 | 4 | 2 | 143 | 4 | 7 | 85 | 284 | 8 | 1 | | 654 | |
| 7/15/2018 | 30 | 1,917 | 1,620 | 742 | 4 | 3 | 14 | 3 | 8 | 69 | 233 | 7 | 2 | | 480 | |
| 7/16/2018 | 38 | 2,007 | 922 | 882 | 5 | 2 | 14 | 4 | 7 | 84 | 267 | 8 | - | 208 | 292 | |
| /17/2018 | 36 | 1,786 1,918 | 1,059 | 1,065 | 5 | 2 | 16 | 4 | 8 | 94 | 309 | 7 | - | 239 | 539 | |
| 7/18/2018 | 36 | 1,906 | 1,580 1,812 | 1,098 | 8 | - | 14 | 154 | 8 | 96 | 315 | 13 | - | 128 37 | 869 | |
| 7/19/2018 | 36 | 1,915 | 1,812 | 1,072 | 5 | - | 39 | 32 | 7 | 90 | 294 | 10 | - 1 | 130 | 830 | , |
| /20/2018 | 31 | 1,959 | 2,024 | 1,130 976 | 29 | - | 138 | 6 | 8 | 103 | 322 | 8 | 3 | | 708 629 | |
| 7/21/2018 | 31 | 1,939 | 1,787 | 773 | 44 | 3 | 14 | 220 | 8 | 94 | 304 | 9 | | 63 | 530 | |
| /22/2018 | 26 | 1,879 | 968 | 812 | 5 | 2 | 20 | 3 | 9 | 77 | 272 | 7 | - | 175 | 394 | |
| /23/2018 | 31 | 1,968 | 1.082 | 1,204 | 5 | 2 | 13 | 4 | 7 | 85 | 243 | 8 | - | 510 | 551 | |
| /24/2018 | 31 | 1,978 | 1,857 | 1,264 | 5 | 2 | 15 | 279 | 8 | 102 | 278 | 8 | 2 | | 644 | |
| /25/2018 | 27 | 1,969 | 1,845 | 1,204 | 5 | 2 | 15 | 272 | 8 | 95 | 296 | 9 | 2 | | 722 | |
| /26/2018 | 30 | 1,951 | 2,172 | 1,114 | 5 | 3 | 14 17 | 321 239 | 8 | 111 | 297 | 13 | 2 | | 1,032 | |
| 27/2018 | 28 | 1,957 | 2,002 | 889 | 5 | - | 17 | 239 | 8 | 126 | 320 | 11 | 4 | 28 | 674 | |
| 28/2018 | 25 | 1,853 | 1,717 | 694 | 5 | - | 14 | 4 | 8 | 100 89 | 324 | 7 | - | 25 | 514 | 8 |
| /29/2018 | 26 | 1,911 | 898 | 813 | 6 | | 14 | 4 | 8 | 90 89 | 262 | 7 | - | 22 | 452 | |
| /30/2018 | 38 | 1,849 | 1,278 | 933 | 5 | 2 | 16 | 20 | 8 | 90 107 | 281 | 8 | 1 | 56 | 499 | 10 |
| /31/2018 | 38 | 1,852 | 2,062 | 924 | 5 | 2 | 13 | 124 | 8 | 107 | 279 308 | 8 | 2 | | 715 | |
| 8/1/2018 | 36 | 2,036 | 1,896 | 1,032 | 5 | 2 | 17 | 6 | 8 | 116 | 308 | 12 | - | 116 | 881 | |
| 8/2/2018 | 33 | 1,995 | 2,067 | 1,091 | 5 | 2 | 39 | 6 | 8 | 106 | 302 | 11 9 | 1 | | 813 | |
| 8/3/2018 8/4/2018 | 29 | 1,928 | 1,831 | 864 | 5 | 2 | 137 | 60 | 8 | 89 | 293 | 9 | - | 95 | 614 | |
| 0/4/2018 | 31 | 1,878 | 1,839 | 701 | 5 | 3 | 21 | 4 | 8 | 80 | 4.33 | | - | 100 | 558 | 10, |

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.B

| 8/5/2018 8/6/2018 8/7/2018 8/8/2018 8/9/2018 | | 1,914 | | | | | | | | | | | | | | Fergus Falls |
|--|-----|----------------|----------------|-------|-----|----|----------|-----------|----------|------------|------------|----------|-----------------|----------------|----------------|--------------|
| 8/7/2018 8/8/2018 | 37 | | 149 | /42 | 5 | 2 | 21 | 334 | 8 | 92 | | | Wood Lake MN #1 | Kenville MN #2 | Crookston | (N4 + W) |
| 8/8/2018 | | 2,013 | 1,190 | | 5 | 2 | 17 | 154 | 8 | 92 119 | | 8 | | 101 | | 10,341 |
| | | 1,882 | 1,847 | -, | | 2 | 15 | 117 | 8 | 115 | 302 | 8 | 2 | | | |
| | | 1,693 | 1,881 | · · - | | 2 | 17 | 109 | 8 | 88 | 275 | 14 12 | | 110 | | |
| 8/10/2018 | | 1,789 | 1,903 | -) | | 2 | 17 | 134 | 8 | 93 | 313 | 12 | - | 109 | | |
| 8/11/2018 | | 1,752 1,834 | 2,035 | -/ | - | 2 | 17 | 211 | 8 | 84 | 266 | 3 | 1 | 68 | | -, |
| 8/12/2018 | | 1,834 | 1,699 | | 4 | 2 | 14 | 2 | 8 | 79 | | 6 | - | 72 | | |
| 8/13/2018 | | 1,744 | 146 900 | | 5 | 2 | 14 | 3 | 8 | 83 | 263 | 8 | | 95 95 | | |
| 8/14/2018 | | 1,904 | 1,972 | -, | | 2 | 16 | 3 | 8 | 94 | 288 | 12 | | 99 | | |
| 8/15/2018 | | 1,805 | 1,572 | | | 2 | 111 | 5 | 8 | 101 | 309 | 13 | | 103 | | |
| 8/16/2018 | | 1,830 | 1,099 | -, | | 2 | 16 | 5 | 8 | 100 | 297 | 12 | | 105 | | |
| 8/17/2018 | | 1,888 | 1,974 | | | - | 17 | 3 | - | 92 | 286 | 11 | | 92 | | |
| 8/18/2018 | | 1,758 | 1,571 | | 5 | 2 | 15 | 4 | 9 | 99 | 288 | 7 | - | 83 | | |
| 8/19/2018 | | 1,921 | 360 | | 5 | 3 | 15 | 3 | 8 | 81 | 243 | 7 | - | 99 | 2,528 | |
| 8/20/2018 | 38 | 1.886 | 1,403 | | | 2 | 17 | з | 8 | 92 | 280 | 9 | 1 | 100 | | |
| 8/21/2018 | 36 | 1,789 | 2,306 | | 5 | 2 | 16 | 6 | 9 | 109 | 305 | 9 | 3 | 106 | | |
| 8/22/2018 | 34 | 1,836 | 1,927 | | 5 | 2 | 19 | 7 | 9 | 123 | 303 | 13 | 7 | 100 | | |
| 8/23/2018 | 34 | 1,958 | 1,757 | | 5 | 2 | 16 | 6 | 9 | 115 | 295 | 12 | 4 | 97 | 2,809 | / |
| 8/24/2018 | 32 | 1,936 | 1,830 | | 5 | 3 | 15 14 | 5 | | 102 | 291 | 11 | 2 | 107 | 3,044 | |
| 8/25/2018 | 33 | 1,832 | 1,576 | | 5 | 2 | 14 | 5 | | 99 | 271 | 7 | - | 158 | | |
| 8/26/2018 | | 1,841 | 131 | | 5 | 2 | 13 | 4 | 8 | 84 | 262 | 7 | • | 202 | | |
| 8/27/2018 | | 1,968 | 1,183 | | | 2 | 14 | 5 | 8 9 | 81 | 239 | 8 | | 371 | 2,408 | |
| 8/28/2018 | | 1,943 | 2,050 | 1,147 | 7 | 3 | 15 | 5 | 9 10 | 100 | 307 | 9 | 1 | 583 | 3,193 | |
| 8/29/2018 | | 1,998 | 1,963 | 1,147 | 6 | 3 | 9 | 8 | 5010 | 145 | 346 | 16 | | 140 | 3,337 | |
| 8/30/2018 | | 1,755 | 2,020 | 1,232 | 6 | 2 | 6 | , 7 | 9 | 128 | 312 | 13 | 8 | 147 | 3,124 | |
| 8/31/2018 | | 1,792 | 1,975 | 818 | 7 | 2 | 6 | 3 | 8 | 119 95 | 280 | 9 | 4 | 656 | 3,218 | 11,239 |
| 9/1/2018 | | 1,888 | 1,744 | 732 | 6 | 2 | 8 | 3 | 8 | 95 77 | 270 | 6 | 2 | 669 | 3,072 | 10,718 |
| 9/2/2018 | | 1,912 | 527 | 726 | 6 | 2 | 7 | 2 | - | 82 | 265 | 7 | - | 1,822 | | 10,211 |
| 9/3/2018 | | 1,932 | 136 | 858 | 6 | 2 | 6 | 3 | 8 | 95 | 238 178 | 8 | - | 1,895 | | |
| 9/4/2018 9/5/2018 | | 1,981 | 964 | 1,065 | 6 | 3 | 17 | 6 | 9 | 116 | 305 | 9 | 1 | 1,951 | | |
| 9/6/2018 | | 1,937 | 1,503 | -, | 7 | 3 | 20 | 6 | | 142 | 305 | 13 14 | - | 2,866 | | |
| 9/7/2018 | | 1,972 | 1,710 | | 6 | 3 | 18 | 24 | 10 | 134 | 334 | 14 | | 2,377 | 2,711 | |
| 9/8/2018 | | 1,875 | 1,916 | | 6 | 2 | 17 | 116 | 9 | 122 | 317 | 12 | 7 | 650 | 3,420 | |
| 9/9/2018 | | 1,962 1,851 | 1,483 | . – | 6 | 3 | 17 | 5 | 9 | 109 | 290 | , 9 | 1 | 134 | 3,155 | - |
| 9/10/2018 | | 1,851 | 937 | 961 | 6 | 3 | 18 | 15 | 8 | 111 | 288 | 9 | | 55 27 | 3,093 | |
| 9/11/2018 | | 1,940 | 1,476 1,990 | | 6 | 2 | 16 | 110 | 9 | 121 | 325 | 11 | - | 141 | 3,184 | |
| 9/12/2018 | | 1,991 | 1,990 | | 7 | 2 | 15 | 3 | 8 | 122 | 304 | 13 | | 1,124 | 3,292 3,588 | |
| 9/13/2018 | | 1,855 | 2,068 | 1,135 | 6 | 2 | 14 | 16 | 9 | 105 | 314 | 12 | | 1,077 | | |
| 9/14/2018 | | 1,859 | 2,039 | | 6 | 2 | 39 | 66 | 8 | 99 | 306 | 9 | | 1,725 | | |
| 9/15/2018 | 30 | 1,945 | 1,752 | | 6 | 3 | 154 | 30 | 8 | 95 | 299 | 6 | 2 | 1,961 | | |
| 9/16/2018 | 32 | 2,034 | 588 | 705 | 6 | | 14 | 3 | 8 | 82 | 275 | 7 | - | 700 | 3,069 | |
| 9/17/2018 | 36 | 2,109 | 1,464 | | 6 | 2 | 16 | 9 | 8 | 87 | 246 | 8 | 3 | 124 | 3,194 | |
| 9/18/2018 | 35 | 2,118 | 2,056 | | 6 | 2 | 17 | 33 | 9 | 130 | 308 | 10 | 7 | 1,421 | | |
| 9/19/2018 | 41 | 2,152 | 2.094 | | 7 | 4 | 16 21 | 100 | 9 | 126 | 302 | 14 | 7 | 973 | 1,777 | |
| 9/20/2018 | 52 | 2,114 | 2,226 | | , 8 | 4 | 21 26 | 131 | 10 | 146 | 335 | 15 | 11 | 1,464 | 3,454 | |
| 9/21/2018 | | 2,236 | 2,246 | | 12 | | 26 | 22 175 | 10 | 157 | 396 | 13 | 11 | 1,374 | 3,648 | |
| 9/22/2018 | | 2,154 | 1,895 | | 9 | - | 41 27 | 1/5 | 16 13 | 208 | 461 | 18 | | 1,287 | 3,692 | |
| 9/23/2018 | | 2,039 | 199 | 921 | 7 | 3 | 19 | 10 | 13 | 132 | 368 | 15 | | 1,515 | 3,431 | |
| 9/24/2018 | | 2,102 | 1,465 | 1,368 | 8 | 5 | 27 | 105 | 10 | 104 190 | 303 | 10 | - | 1,739 | | |
| 9/25/2018 | | 2,144 | 2,366 | 1,416 | | - | 43 | 244 | 15 | | 410 | 13 | - | 1,178 | | |
| 9/26/2018 | | 2,137 | 2,159 | | 10 | 6 | 180 | 244 69 | 18 | 237 188 | 553 | 26 | | 2,852 | | |
| 9/27/2018 | | 2,306 | 2,356 | | 14 | 8 | 48 | 213 | 15 | 188 | 438 590 | 21 | | 3,500 | | |
| 9/28/2018 | | 2,336 | 2,498 | | 20 | 11 | 61 | 122 | 22 | 246 | 590 743 | 26 | | 3,358 | 4,111 | |
| 9/29/2018 | | 2,365 | 1,705 | | 24 | 16 | 168 | 40 | 86 | 301 | 743 | 38 45 | 27 | 3,280 | | |
| 9/30/2018 | 112 | 2,370 | 851 | 1,340 | 17 | 11 | 112 | 28 | 94 | 257 | 691 | 45 | | 3,111 2,764 | 4,044 4,079 | |

Docket No. G004/M-18-454 Supplemental Comments DOC Attachment 3 Page 28 of 38

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.C

| | Direct | | | Direct Total | Indirect | | | Indirect Total | Grand Total |
|-------------|--|---|-------------|--------------|----------|--------------|----------|----------------|-------------|
| Row Labels | Crookston | F | ergus Falls | C | rookston | Fergus Falls | Zone E-F | | |
| 2017 | | 4 | 31 | 35 | 30 | 150 | 34 | 214 | 249 |
| Jan | | 1 | 22 | 23 | 6 | 27 | 8 | 41 | 64 |
| Feb | | | | | 2 | 23 | 2 | 27 | 27 |
| Mar | | | | | 1 | 26 | 1 | - 28 | 28 |
| Apr | | | | | | 7 | | 7 | 7 |
| Sep | | | | | | 0 | | 0 | 0 |
| Oct | | | | | | 3 | | 3 | 3 |
| Nov | | | | | | 43 | 1 | 44 | 44 |
| Dec | | 3 | 9 | 12 | 21 | 21 | 22 | 64 | 76 |
| 2018 | | 2 | 6 | 8 | 3 | 43 | 32 | 78 | 86 |
| Jan | | 2 | 6 | 8 | 3 | 26 | 11 | 40 | 48 |
| Feb | | | | | | 17 | 16 | 33 | 33 |
| Apr | | | | | | | 5 | 5 | 5 |
| Grand Total | na ang mang mang mang mang mang mang man | 6 | 37 | 43 | 33 | 193 | 66 | 292 | 335 |

Direct: refers to situations where customers were expressly notified of curtailment.

Indirect: refers to situations where customer, who typically doesn't consume, would be denied service if a request was made. (Grain Dryers)

| Issuer | DATE START | DATE END | Days | Dpoint | Direct/Indirect |
|----------|------------|------------|------|--------------|-----------------|
| G Supply | 1/4/2017 | 1/5/2017 | 1 | Fergus Falls | Direct |
| G Supply | 1/4/2017 | 1/5/2017 | 1 | Fergus Falls | Direct |
| G Supply | 1/4/2017 | 1/5/2017 | 1 | Fergus Falls | Direct |
| G Supply | 1/4/2017 | 1/5/2017 | 1 | Crookston | Direct |
| Field | 1/4/2017 | 1/13/2017 | 9 | Fergus Falls | Direct |
| Field | 1/4/2017 | 1/13/2017 | 9 | Fergus Falls | Direct |
| Field | 1/12/2017 | 1/13/2017 | 1 | Fergus Falls | Direct |
| G Supply | 12/25/2017 | 12/26/2017 | 1 | Fergus Falls | Direct |
| G Supply | 12/25/2017 | 12/26/2017 | 1 | Fergus Falls | Direct |
| G Supply | 12/25/2017 | 12/26/2017 | 1 | Fergus Falls | Direct |
| G Supply | 12/25/2017 | 12/26/2017 | 1 | Crookston | Direct |
| G Supply | 12/29/2017 | 12/31/2017 | 2 | Fergus Falls | Direct |
| G Supply | 12/29/2017 | 12/31/2017 | 2 | Fergus Falls | Direct |
| G Supply | 12/29/2017 | 12/31/2017 | 2 | Fergus Falls | Direct |
| G Supply | 12/29/2017 | 12/31/2017 | 2 | Crookston | Direct |
| G Supply | 1/12/2018 | 1/13/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/12/2018 | 1/13/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/12/2018 | 1/13/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/12/2018 | 1/13/2018 | 1 | Crookston | Direct |
| G Supply | 1/15/2018 | 1/16/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/15/2018 | 1/16/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/15/2018 | 1/16/2018 | 1 | Fergus Falls | Direct |
| G Supply | 1/15/2018 | 1/16/2018 | 1 | Crookston | Direct |

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.E

| Delivery Point | Currently Subscribed Capacity | Design Capacity | % Subscribed |
|-----------------------|--------------------------------------|-----------------|--------------|
| Zone E-F | 19,145 | 36,278 | 53% |
| Crookston | 2,000 | 8,209 | 24% |
| Fergus Falls | 13,000 | 25,054 | 52% |

Great Plains Natural Gas Co. Docket No. G999/AA-18-374 IR No. 18.F.a

| | Pipeline | VGT | VGT | VGT | VGT | VGT | VGT | NNG | NNG | NNG |
|------|----------------|------------|------------------------|----------------|--------------|------------------------|----------------|------------|------------------------|----------------|
| | Delivery Point | Crookston | Crookston | Crookston | Fergus Falls | Fergus Falls | Fergus Falls | Zone E-F | Zone E-F | Zone E-F |
| | Service Type | Firm Sales | Interruptible Sales | Transportation | Firm Sales | Interruptible Sales | Transportation | Firm Sales | Interruptible Sales | Transportation |
| 2018 | Nov | 38,521 | 15,720 | 76,268 | 132,672 | 116,280 | 256,752 | 179,959 | 33,570 | 154,549 |
| 2018 | Dec | 56,337 | 16,771 | 74,486 | 193,709 | 130,913 | 266,835 | 267,023 | 34,782 | 192,220 |
| 2019 | Jan | 62,934 | 18,450 | 69,236 | 214,911 | 143,057 | 258,831 | 289,106 | 37,789 | 213,239 |
| 2019 | Feb | 53,161 | 17,780 | 64,756 | 179,024 | 127,008 | 245,172 | 242,471 | 34,076 | 193,382 |
| 2019 | Mar | 42,335 | 15,934 | 63,829 | 142,726 | 119,102 | 249,670 | 194,535 | 31,124 | 194,850 |
| | | | | | | | | | | |
| 2019 | Nov | 39,081 | 15,720 | 76,268 | 134,430 | 116,280 | 256,752 | 182,058 | 33,570 | 154,549 |
| 2019 | Dec | 57,156 | 16,771 | 74,486 | 196,260 | 130,913 | 266,835 | 270,103 | 34,782 | 192,220 |
| 2020 | Jan | 63,849 | 18,450 | 69,236 | 217,737 | 142,844 | 258,831 | 292,438 | 37,789 | 213,239 |
| 2020 | Feb | 55,456 | 18,415 | 64,756 | 186,416 | 131,544 | 245,172 | 252,074 | 34,076 | 193,382 |
| 2020 | Mar | 42,950 | 15,934 | 63,829 | 144,617 | 119,102 | 249,670 | 196,807 | 31,124 | 194,850 |
| | | | | | | | | | | |
| 2020 | Nov | 39,649 | 15,720 | 76,268 | 136,215 | 116,280 | 256,752 | 184,191 | 33,570 | 154,549 |
| 2020 | Dec | 57,986 | 16,771 | 74,486 | 198,848 | 130,913 | 266,835 | 273,233 | 34,782 | 192,220 |
| 2021 | Jan | 64,665 | 18,450 | 69,236 | 220,605 | 142,740 | 258,831 | 295,825 | 37,789 | 213,239 |
| 2021 | Feb | 54,717 | 17,780 | 64,756 | 183,774 | 127,008 | 245,172 | 248,119 | 34,076 | 193,382 |
| 2021 | Mar | 43,575 | 15,934 | 63,829 | 146,536 | 119,102 | 249,670 | 199,116 | 31,124 | 194,850 |



705 West Fir Avenue Mailing Address: P.O. Box 176 Fergus Falls, MN 56538-0176 (218) 736-6935 May 29, 2018

Mr. Connor Boler Minnesota Department of Commerce Division of Energy Resources 85 7th Place East, Suite 280 St. Paul, MN 55101-2198

Re: Docket No. G999/AA-17-493

Dear Mr. Boler:

Great Plains Natural Gas Co., (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically submits its response to information request number 18 from the Minnesota Department of Commerce, Division of Energy Resources, dated May 17, 2018.

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

| Docket Number: Requested From: | G999/AA-17-493 All regulated gas utilities | □Nonpublic ⊠Public Date of Request: 5/17/2018 Response Due: 5/28/2018 |
|---|--|---|
| Requested by: Email Address(es): Phone Number(s): | Sachin Shah/Angela Byrne/Adam sachin.shah@state.mn.us 651-539-1834 | Heinen/Steve Rakow |
| Request Number: Topic: | 18 Distribution Planning | |

Request:

Please provide an update to the following questions for the period January 2017 through April 2018. If there has been no change since the company's initial response to DOC Information Request 18 in Docket No. G999/AA-16-524 from March 2017, please indicate "No change."

- A. Please provide a detailed discussion of how the utility plans, constructs, and maintains its distribution system. As part of this response, include a discussion about how the utility decides to add capacity or expand in to new, or growing, service territory.
- B. Please provide daily throughput data, by each individual Town Border Station (TBS) or delivery point, on the utility's system since January 1, 2017. If available, please provide these data divided by firm, interruptible, and transport load. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- C. Please provide the number of interruption days, by TBS or delivery point, by month since January 2017. To the extent possible, please identify the number of interruption days that are non-weather related (*e.g.*, reliability purposes). Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- D. Please provide, on a daily basis since January 1, 2017 by TBS or delivery point, the maximum deliverable throughput by customer type. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- E. Please provide, by TBS or delivery point, on a daily basis since January 1, 2017 the percentage of deliverable capacity subscribed by the utility. If applicable, please identify other parties, and their percentages of subscribed capacity, at the TBS. Please also provide these data in Microsoft Excel format with all links, and formulae intact.
- F. Please provide the following forecasted data, in Microsoft Excel format with all links and formulae intact, by TBS, or delivery point, for the next three heating seasons. If the utility expects daily fluctuation, please provide these data on a daily basis:
 - a. Total utility throughput, if possible, divided by customer type (*i.e.*, firm, interruptible, transport); and
 - b. Expected firm and total throughput available at the TBS or delivery point.

To be completed by responder

| Docket Number: | G999/AA-17-493 | □Nonpublic ⊠Public |
|-----------------|-----------------------------|----------------------------|
| Requested From: | All regulated gas utilities | Date of Request: 5/17/2018 |
| | | Response Due: 5/28/2018 |
| | | |

Requested by:Sachin Shah/Angela Byrne/Adam Heinen/Steve RakowEmail Address(es):sachin.shah@state.mn.usPhone Number(s):651-539-1834

- G. Please provide maps, by county, identifying the location (and name) of any, and all, TBSs or delivery points on the utility's system. If possible, please provide these maps in pdf and GIS executable formats.
 - a. Please identify, by county, on the maps in Part F, the location of any, and all, transmission assets on the utility's system.
 - b. If the utility has an affiliate transmission or intrastate pipeline utility, please also identify these assets on the maps provided in Part F, by county.

If this information has already been provided in written comments or in response to an earlier DOC information request, please identify the specific comment cite(s) or DOC information request number(s).

Response:

- A. No change.
- B. Please see the attached Microsoft Excel document titled "AA-17-493 GP Response IR 18" within worksheet titled "IR No. 18.B". Great Plains does not track daily throughput by firm, interruptible, and transport load.
- C. Please see the attached Microsoft Excel document titled "AA-17-493 GP Response IR 18" within worksheet titled "IR No. 18.C".
- D. No change.
- E. Great Plains Natural Gas does not track historical delivery point capacities; therefore, does not identify the percentage of subscribed capacity. Please see the current percentage of deliverable capacity in the attached Microsoft Excel document titled "AA-17-493 GP Response IR 18" within worksheet titled "IR No. 18.E".
- F. a. Please see the attached Microsoft Excel document titled "AA-17-493 GP Response IR 18" within worksheet titled "IR No. 18.F.a".

To be completed by responder

| Docket Number: | G999/AA-17-493 | □Nonpublic ⊠Public |
|-----------------|-------------------------------|----------------------------|
| Requested From: | All regulated gas utilities | Date of Request: 5/17/2018 |
| | | Response Due: 5/28/2018 |
| Requested by: | Sachin Shah/Angela Byrne/Adam | Hoinon (Stovo Pakow |

Requested by:Sachin Shah/Angela Byrne/Adam Heinen/Steve RakowEmail Address(es):sachin.shah@state.mn.usPhone Number(s):651-539-1834

b. Please see the attached Microsoft Excel document titled "AA-17-493 GP Response IR 18" within worksheet titled "IR No. 18.E".

G. No Change.

To be completed by responder

Response Date:May 29, 2018Response by:Travis JacobsonEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855



705 West Fir Avenue Mailing Address: P.O. Box 176 Fergus Falls, MN 56538-0176 (218) 736-6935 November 29, 2018

Mr. Connor Boler Department of Commerce Division of Energy Resources 85 7th Place East, Suite 500 St. Paul, MN 55101-2198

Re: Docket No. G999/AA-18-374

Dear Mr. Boler:

Great Plains Natural Gas Co., (Great Plains), a Division of MDU Resources Group, Inc., herewith electronically submits its response to information request number 20 from the Minnesota Department of Commerce, Division of Energy Resources dated November 19, 2018.

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 Angela Byrne Sachin Shah Adam Heinen

| Docket Number: Requested From: Type of Inquiry: | G999/AA-18-374 MDU Resources Group Inc., d/b/a Great Plains Natural Gas Co General | □Nonpublic ⊠Public Date of Request: 11/19/2018 Response Due: 11/29/2018 |
|---|--|---|
| Requested by: Email Address(es): Phone Number(s): | Sachin Shah, Angela Byrne, Adam Heinen sachin.shah@state.mn.us; angela.byrne@state.mn.us; adam.heinen@state.mn.us 651-539-1834; 651-539-1820; 651-539-1825 | |
| Request Number: Topic: Reference(s): | 20 MDU Resources Group Inc., d/b/a Great Plains Natural Gas Company (Great Plains) response to Department Information Request (IR) Nos. 18 in Docket No. G999/AA-16-524. | |

Request:

- (a) Please explain and separately provide the above reference, including all subparts, to the most recent date available.
- (b) As part of your response to part (a) above, please supplement your response(s) to include weather data beginning from November 1, 2012.

Where applicable, please provide all the data used in your response in Microsoft Excel format with all links and formulae intact.

If this information has already been provided in the Petition or in response to an earlier Department information request (IR), please identify the specific cite(s) or Department IR numbers(s).

To be completed by responder

Response Date:November 29, 2018Response by:Travis Jacobson, Manager, Regulatory AffairsEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855

| Docket Number: Requested From: | G999/AA-18-374 MDU Resources Group Inc., d/b/a Great Plains Natural Gas Co | □Nonpublic ⊠Public Date of Request: 11/19/2018 |
|---|--|---|
| Type of Inquiry: | General | Response Due: 11/29/2018 |
| Requested by: Email Address(es): Phone Number(s): | Sachin Shah, Angela Byrne, Adam Heinen sachin.shah@state.mn.us; angela.byrne@state.mn.us; adam.heinen@state.mn.us 651-539-1834; 651-539-1820; 651-539-1825 | |

Response:

- (a) Please see attached Microsoft Excel document titled "DOC IR-18 Distribution Planning 18 – Update" for an updated response to IR No. 18.B. Responses to all other IR No.18 subparts remain unchanged from those filed for IR No. 18 on 11/19/2018.
- (b) Please see attached Microsoft Excel document titled "DOC IR-20 Weather Data 18."

To be completed by responder

Response Date:November 29, 2018Response by:Travis Jacobson, Manager, Regulatory AffairsEmail Address:travis.jacobson@mdu.comPhone Number:(701) 222-7855