DORSEY
DORSEY & WHITNEY LLP

**MICHAEL J. AHERN**
**(612) 340-2881**
**FAX (612) 340-2643**
**ahern.michael@dorsey.com**

November 1, 2008

Burl W. Haar
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55101

**PUBLIC DOCUMENT – TRADE SECRET DATA HAS BEEN EXCISED**

Re: In the Matter of the Petition of Minnesota Energy Resources Corporation – PNG for Approval of a Change in Demand Entitlement for its Northern Natural Gas Transmission System; Docket No. ________________

Dear Dr. Haar:

In accordance with Minnesota Rule 7825.2910, subpart 2, please find the public and nonpublic versions of Minnesota Energy Resources Corporation's (MERC) request to change demand entitlement. In particular, MERC proposes to change demand levels by type on the Northern Natural Gas Transmission (NNG) system for customers served by MERC-PNG effective November 1, 2008.

Please note that page 17 of the Petition and Attachments 8 and 9 contain financial information with independent economic value that is not generally known to, and not readily ascertainable by, competitors of MERC, who could obtain economic value from its disclosure. MERC maintains this information as secret. Accordingly this data qualifies as trade secret data as defined in Minn. Stat. § 13.37, subd. 1(b), and MERC requests that the data be treated as trade secret information.

In accordance with Minnesota Rule 7825.2910, subpart 3, a Notice of Availability has been sent to all intervenors in Aquila Networks-PNG's previous two rate cases.

Please feel free to contact me at (612) 340-2881 if you have any questions regarding this matter.

Sincerely yours,

Michael J. Ahern

Enclosures
cc: Service List

STATE OF MINNESOTA
BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

| | |
|---|---|
| David C. Boyd | Chair |
| J. Dennis O'Brien | Commissioner |
| Thomas Pugh | Commissioner |
| Phyllis A. Reha | Commissioner |
| Betsy Wergin | Commissioner |

| | | |
|---|---|---|
| In the Matter of the Petition of Minnesota | ) | |
| Energy Resources Corporation – PNG | ) | |
| for Approval of a Change in Demand | ) | Docket No. ____________ |
| Entitlement for its Northern Natural Gas | ) | |
| Transmission System | ) | |

**FILING UPON CHANGE IN DEMAND**

Pursuant to Minnesota Rule 7825.2910, subpart 2 (Filing Upon Change in Demand), Minnesota Energy Resources Corporation - PNG (MERC or the Company), hereby petitions the Minnesota Public Utilities Commission (Commission) for approval of changes in demand entitlements for MERC's Minnesota customers served off of the Northern Natural Gas Company (NNG or Northern) system. MERC requests that the Commission approve the requested changes to be recovered in the Purchased Gas Adjustment (PGA) effective on November 1, 2008.

This filing includes the following attachments:

| | |
|---|---|
| **Attachment 1**: | Notice of Availability. |
| **Attachment 2**: | One paragraph summary of the filing in accordance with Minn. R. 7829.1300, subp. 1. |
| **Attachment 3**: | Petition for Change in Demand with Attachments. |

**Attachment 4**: Affidavit of Service and Service List.

The following information is provided in accordance with Minn. R. 7829.1300:

## 1. Summary of Filing

Pursuant to Minn. R. 7829.1300, subp. 1, a one-paragraph summary of the filing is attached.

## 2. Service

Pursuant to Minn. R. 7829.1300, subp. 2, MERC has served a copy of this filing on the Department of Commerce and the Office of the Attorney General – Residential Utilities Division. The summary of the filing has been served on all parties on the attached service list. Additionally, pursuant to Minn. R. 7825.2910, subp. 3, a Notice of Availability has been sent to all intervenors in Aquila Networks – PNG's previous two rate cases.

## 3. General Filing Information

### A. Name, Address, and Telephone Number of the Utility

Minnesota Energy Resources Corporation
2665 145th Street West
Box 455
Rosemount, MN 55068-0455
(651) 322-8901

### B. Name, Address, and Telephone Number of Attorney for the Utility

Michael J. Ahern
Dorsey & Whitney LLP
50 S. Sixth Street, Suite 1500
Minneapolis, MN 55402-1498
(612) 340-2881

## C. Date of the Filing and Proposed Effective Date

Date of filing: November 3, 2008
Proposed Effective Date: November 1, 2008

## D. Statute Controlling Schedule for Processing the Filing

Minnesota Statutes and related rules do not provide an explicit time frame for action by the Commission.

## E. Utility Employee Responsible for the Filing

Gregory J. Walters
519 First Avenue SW
P.O. Box 6538
Rochester, MN 55903-6538
(507) 529-5100

If additional information is required, please contact Michael J. Ahern at: (612) 340-2881.

DATED: November 3, 2008

Respectfully Submitted,

DORSEY & WHITNEY LLP

By ______________________
Michael J. Ahern
Suite 1500, 50 South Sixth Street
Minneapolis, MN 55402-1498
Telephone: (612) 340-2600

Attorney for Minnesota Energy Resources Corporation

November 3, 2008

All Intervenors

**Notice of Availability**

Please take notice that Minnesota Energy Resources Corporation-PNG has filed a petition with the Minnesota Public Utilities Commission for approval of a change in demand entitlements.

To obtain copies, or if you have any questions, please contact:

Gregory J. Walters
Minnesota Energy Resources Corporation
519 1st Ave SW
Rochester, MN 55902
507-529-5100.

Please note that this filing is also available through the eDockets system maintained by the Minnesota Department of Commerce and the Minnesota Public Utilities Commission. You can access this document by going to eDockets through the websites of the Department of Commerce or the Public Utilities Commission or going to the eDockets homepage at:

https://www.edockets.state.mn.us/EFiling/home.jsp

Once on the eDockets homepage, this document can be accessed through the Search Documents link and by entering the date of the filing.

STATE OF MINNESOTA
BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

| | |
|---|---|
| David C. Boyd | Chair |
| J. Dennis O'Brien | Commissioner |
| Thomas Pugh | Commissioner |
| Phyllis A. Reha | Commissioner |
| Betsy Wergin | Commissioner |

| | | |
|---|---|---|
| In the Matter of the Petition of Minnesota | ) | |
| Energy Resources Corporation – PNG | ) | |
| for Approval of a Change in Demand | ) | Docket No. ______________ |
| Entitlement for its Northern Natural Gas | ) | |
| Transmission System | ) | |

**SUMMARY OF FILING**

Pursuant to Minnesota Rule 7825.2910, subpart 2 (Filing Upon Change in Demand), Minnesota Energy Resources Corporation - PNG (MERC or the Company), hereby petitions the Minnesota Public Utilities Commission (Commission) for approval of changes in demand entitlements for MERC's Minnesota customers served off of the Northern Natural Gas Company (NNG or Northern) system. MERC requests that the Commission approve the requested changes to be recovered in the Purchased Gas Adjustment (PGA) effective on November 1, 2008.

**PUBLIC DOCUMENT – TRADE SECRET DATA EXCISED**

STATE OF MINNESOTA
BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

| | |
|---|---|
| David C. Boyd | Chair |
| J. Dennis O'Brien | Commissioner |
| Thomas Pugh | Commissioner |
| Phyllis A. Reha | Commissioner |
| Betsy Wergin | Commissioner |

| | | |
|---|---|---|
| In the Matter of the Petition of | ) | FILING UPON CHANGE IN DEMAND |
| Minnesota Energy Resources | ) | |
| Corporation – PNG For Approval | ) | |
| of a Change inDemand Entitlement | ) | DOCKET NO.________________ |

PETITION FOR CHANGE IN DEMAND

## I. INTRODUCTION

Pursuant to Minnesota Rule 7825.2910, subpart 2 (Filing Upon Change in Demand), Minnesota Energy Resources Corporation - PNG (MERC or the Company), a division of Integrys Energy Group, Inc. (TEG), hereby petitions the Minnesota Public Utilities Commission (Commission) for approval of changes in demand entitlements for MERC's PNG customers served off of the Northern Natural Gas Company (NNG or Northern) system.[1] MERC requests that the Commission approve the requested changes to be recovered in the Purchased Gas Adjustment (PGA) effective on November 1, 2008.

[1] MERC-PNG also serves Minnesota customers off of the Viking Gas Transmission (Viking) pipeline system and the Great Lakes Gas Transmission (GLGT) pipeline system. MERC requests approval of a demand entitlement change for the 2008-2009 heating season for its Viking customers in a separate Docket No., and requests approval of a demand entitlement change on the GLGT system in a separate Docket No..

## II. DISCUSSION

### A. MERC's PNG-NNG Design Day Requirements

MERC's 2008-2009 NNG design day requirements increased 23,134 Mcf (or approximately 11.44 percent) from 202,263 Mcf to 225,397 Mcf.

**Table 1: MERC's Proposed NNG Reserve Margins For the 2008-2009 Heating Season PNG/NMU**

| | Reserve Margin 2008-2009 Heating Season | Reserve Margin 2007-2008 Heating Season | Change |
|---|---|---|---|
| NNG Zone EF | 1.32% | 11.93% | -10.61% |

As shown in Table 1, MERC's proposed system wide reserve margin, Zone EF for the 2008-2009 heating season is positive.

For the Demand Entitlement filing effective November 1, 2008, the total Design Day requirement for Northern Natural Gas (NNG), which includes PNG and NMU is 247,188 Dth as calculated in Attachments 5 and Attachments 7 under the NNG Entitlement Allocation.

For the Demand Entitlement filing effective November 1, 2007, the total Design Day capacity on Northern Natural Gas (NNG), which includes PNG and NMU is 250,448 Dth as calculated in Attachments 5 and Attachments 7 under the NNG Entitlement Allocation. The difference between the total Design Day requirement and total Design Day capacity results in a 1.32% positive reserve margin.

B. Forecast Methodology for MERC Demand Entitlement Nov. 1, 2008

**Peakday**

**Purpose**

Gather data and perform analysis used in the "Petition for Change in Demand" for Minnesota Energy Resources Corporation – PNG and Minnesota Energy Resources Corporation – NMU for "Approval of a Change in Demand Entitlement" to be sent to the Minnesota Public Utilities Commission, otherwise known as the "MERC Demand Entitlement Filings".

**Background**

MERC is composed of two service areas:

1. PNG - Peoples Natural Gas (company – approximately 170,000 customers)
2. NMU - Northern Minn Utility (company – approximately 40,000 customers)

Which are served by four pipelines:

3. VGT - Viking Gas Transmission system (serves both PNG and NMU)
4. NNG- Northern Natural Gas pipeline (serves both PNG and NMU)
5. GLGT - Great Lakes Gas Transmission pipeline (serves both PNG and NMU)
6. Centra - Centra pipeline (serves NMU)

Four Petitions for Change in Demand are filed (one for each of PGAC):

A. PNG customers served off of VGT = PNG – VGT
B. PNG customers served off of GLGT = PNG - GLGT
C. PNG customers served off of NNG = PNG - NNG
D. All NMU customers - served off NNG, GLGT, VGT & Centra = NMU

Weather data is obtained from six weather stations:

1. International Falls
2. Bemidji
3. Cloquet
4. Fargo
5. Minneapolis
6. Rochester

For analytical purposes, data is subdivided, analyzed and regressed by the following eight demand areas:

| | **Demand Area (Service Area / Pipeline)** | **PGAC** | **Weather Station(s)** |
|---|---|---|---|
| 1 | NMU-Centra | NMU | International Falls |
| 2 | NMU-GLGT * | NMU | Bemidji & Cloquet |
| 3 | NMU-NNG | NMU | Cloquet |
| 4 | NMU-VGT * | NMU | Bemidji & Fargo |
| 5 | NMU-GLGT&VGT* | NMU | Bemidji & Fargo |
| 6 | PNG-GLGT | PNG-GLGT | Bemidji & Cloquet |
| 7 | PNG-NNG | PNG-NNG | Minneapolis, Rochester & Cloquet |
| 8 | PNG-VGT | PNG-VGT | Bemidji & Fargo |

* Thief River Falls is included only in NMU-GLGT&VGT

## 2008 Analytical Approach

### Summary

1. Obtain daily weather data for each weather station as shown in Attachment 13
2. Obtain daily total throughput volumes by pipeline
3. Perform total throughput peak day regressions
4. Subtract interruptible, transport, and joint interruptible expected peak day load volumes based on monthly billing data
5. Add back Daily Firm Capacity (DFC) customer selections

6. Apply sales forecast growth rates

**Detail**

The Peak Day Forecasting Team (the Team) followed a data-driven approach for the MERC 2008/09 Peak Day Forecast. Since the forecast is for a peak day, the best daily data available is required to provide the best estimate. Theoretically, the peak day regression should be performed using daily net firm load by service area, pipeline, and weather station. A review of the data available indicated that the two best daily data sources are the daily weather data by weather station and the daily throughput data by Town Border Station (TBS) and pipeline meter. (Some pipeline meters are dedicated to a TBS, and some are dedicated to individual customers.)

Most of the interruptible, transportation, and joint interruptible data available is from monthly billing record excerpts provided by ADS/Vertex, an external vendor that has been providing billing services to MERC-PNG and MERC-NMU.

The Team proposed an approach different from the one used last year that would:

- Make the best use of the best available data.
- Isolate the effects the monthly billing cycle data has on the Peak Day forecast so that the new process can be easily updated as better data is available.
- Provide a basis for future risk adjustment to the forecast.

The MERC 2009 Peak Day Process consisted of:

I. Data Preparation
II. Regression Generation of Net Daily Metered Volumes
III. Adjusting the Regression Results to a Firm peak day estimate

I. The **Data Preparation** Steps consisted of:

- Identify the coldest Adjusted Heating Degree Day (AHDD) in the last 20 years for each weather station.
- Determine the most recent three, four, and five years of December through February daily total metered throughput for the eight demand areas by weather station.
- Subtract the daily pipeline meter readings for all non-firm customers with daily pipeline meter readings available for all three, four, or five December through February years from the total throughput for each demand area and weather station. Use the resulting net daily metered volumes for regressions. Examples of non-firm customer meter readings subtracted from the demand area total daily throughputs are paper mills, direct-connects, taconites, and off-system end users. (see "Adjusting the Regression Results to a Firm Peak Day Estimate" below)
- Determine how to map the monthly billing data to the eight demand areas.

Each daily weather station data file was searched to find the coldest Adjusted Heating Degree Day (AHDD) in the last 20 years. This 1-in-20 approach is consistent with prior years. The results are provided in the following table:

| Station | Date | Avg. Temp | Avg. Wind | HDD | AHDD |
|---|---|---|---|---|---|
| Bemidji | 2/1/1996 | -34 | 8 | 99 | 107 |
| Cloquet | 2/2/1996 | -31 | 7 | 96 | 103 |
| Fargo | 1/18/1996 | -16 | 34 | 81 | 109 |
| International Falls | 2/2/1996 | -34 | 8 | 99 | 107 |
| Minneapolis | 2/2/1996 | -25 | 8 | 90 | 97 |
| Rochester | 2/2/1996 | -27 | 10 | 92 | 101 |

The daily throughput data was provided by pipeline and meter, with each meter on each pipeline mapped to one of the weather stations shown in the above chart. Each meter was also designated as either PNG or NMU. As noted above, some of the meters represented a TBS. Some meters were dedicated to a customer who is not a firm service customer of either PNG or NMU. For example, certain transportation, interruptible, direct-connect, and taconite customers have their own meter, but are not counted as firm service customers.

In a more nearly ideal world, the Team would have also had daily telemetered data from each interruptible, transportation, and joint interruptible customer mapped to each of the eight demand areas and related weather stations. This was the case for a handful of paper mills, direct-connects, taconites, and off-system end users. The rest of the interruptible, transportation, and joint interruptible data was available based on monthly billing cycle data that introduces billing lag, meter read lag (not all meters were read every month resulted in billing cycle estimates and reversals), and other potential errors into their volumes.

The Team was faced with the choice of either:

1. Trying to "invent" daily meter readings from this monthly data and subtract the estimated daily meter readings from the actual metered daily throughput to arrive at a daily firm load estimate, or

2. Generate regressions of the daily throughput data available less the known daily meter readings for non-firm customers and adjust those regressions for the estimated peak day impact of the other non-firm customers who do not have daily readings.

The Team's consensus was that the second approach introduced much less error into the data and regressions than trying to guess how to allocate monthly billing cycle data to daily when the load factors and relative temperature sensitivity of the non-daily-metered customers was not known. Using only the daily metered data for the regressions makes the best use of the best data available and provides insights into the total daily metered load that could be active on a peak day even if supply access at the non-firm pipeline meters were shut off.

II. The **Regression Generation of Net Daily Metered Volumes** consisted of:

- For each of the eight Demand Areas (Service Area / Pipeline):
    1. Gather the net daily metered volumes and weather station AHDD[2] .
    2. If more than one weather station is represented in a given demand area, weight each weather station's AHDD by the total December through February metered volumes attributable to that weather station. This weighting is computed separately for the five-year, four-year, and three-year regressions as the relative load attributed to the different weather stations changes based on factors such as customer growth (or loss) and conservation.

[2] Temperature and weather data was obtained from Weather Bank/DTN via TherMaxx then converted to HDD and AHDD in an Excel spreadsheet by MERC – Gas Supply. Temperature and wind data is from midnight to midnight.

3. Add indicator variables for day-type and month. Day-type variables are used to isolate load that changes by day of the week, such as commercial or industrial customers who may change their consumption on weekends when they run fewer shifts. Month indicator variables are used to isolate load that changes based on winter month, such as businesses that are open extra hours in December and resume normal operating hours in January.
4. Perform three ordinary least squares linear regressions for each of the 5-year, 4-year, and 3-year time frames:
   - All: Use the weighted AHDD and all indicator variables to determine which are statistically significant.
   - Significant or S: Use only the independent variables that the "All" run showed to be statistically significant, i.e. those having T-Stats higher than 2.0 or less than minus 2.0.
   - AHDD: Use only the AHDD variable.
5. Summarize the Baseload and Use/AHDD from each regression.
6. Calculate a point estimate from each regression based on the baseload value plus the Use/AHDD coefficient times the coldest AHDD in 20 years (weighted if using more than one weather station).

After reviewing the results of the above regressions internally, the 3-year regressions using statistically significant independent variables were selected as being the most representative of the current system customers. The results of the 3-Year Significant, or "3-Yr S" regressions were then checked for reasonableness by comparing the point estimate against every day of the original five years of data, adding the estimated heat load required to weather-adjust the actual data to design AHDD conditions. For a perfectly normal distribution based on a perfectly homogeneous population, the point estimate would have 50% of the adjusted data above it, and 50% of the adjusted data below it. In practice, perfectly normal distributions and perfectly homogeneous populations are rare. For instance, over a five year time period, customers may be added or lost, and the customers that are present for all five years may change their preferences for usage (such as setting the thermostat higher or lower or by adding insulation or adopting other conservation measures). Taking those factors into consideration, the results of the reasonableness test were reasonable, with the AHDD-adjusted actual daily metered volumes exceeding the "3-Yr S" point estimates an average of 46% of the time (PNG-GLGT was lowest with 34.7% and NMU-VGT was highest with 59.1%).

**III. Adjusting the Regression Results to a Firm Peak Day Estimate** consisted of:

**A. Subtract interruptible, transport, and joint interruptible expected peak day load volumes based on monthly billing data**

In order to determine firm peak day load, volumes contained in the daily pipeline meter readings for interruptible, joint interruptible and transportation customers needed to be isolated and removed. While it would have been ideal to have daily billing data for all customers, most of the interruptible, transportation, and joint interruptible data was, in most cases, only available from monthly billing records[3]. An unfortunate, but unavoidable consequence was that this data was based on monthly billing cycles that introduce billing lag, meter read lag (not all meters were read every month resulted in billing cycle estimates and reversals), and other potential errors into their volumes.

A database of volumes billed for all customers from July 2006 through February 2008 was obtained. The database contained detail by customer class[4], calendar month, (service) area, city, location, zip code and responsibility center. The billing database was provided by ADS/Vertex, an outside firm that has been providing billing services to MERC. Sales and Revenue Forecasting had previously adjusted the billing data to properly fit the appropriate calendar month of consumption by apportioning billed volumes, i.e. for a bill covering February 15 to March 15, volumes were split evenly between February and March.

Volumes for the interruptible, transportation and joint interruptible customer classes (INTER, TRANS and JINTER classes) needed to be mapped to the appropriate regression demand area, and were then summed. This billing data included consumption that was billed, but not included in the daily metered volumes for several large specific customers (paper mills, direct-connects, taconites, and off-system end users), and therefore needed to be removed from the gross interruptible, transportation and joint interruptible totals. Such customers were identified, mapped to the demand areas, summed and subtracted from the interruptible, transportation and joint interruptible customer classes totals. The following peak demand estimation method based

---

3 Individual daily volumes were available for a handful of paper mills, direct-connects, taconites, and off-system end users.

4 Transportation, Interruptible, Joint Interruptible, Residential, Large Commercial & Industrial and Small Commercial & Industrial

on the highest monthly total from the winter of 2008 was then used to calculate the amount to subtract from the results of the data regressions for each demand area:

*The MERC-PNG and MERC-NMU tariff General Rules, Regulations, Terms, and Conditions Section 1.N "Maximum Daily Quantity (MDQ)" on Original Sheet No. 8.04:*

*N. Maximum Daily Quantity (MDQ):*

*The amount calculated by dividing the volumes consumed by a particular customer during the highest historical peak month of usage for that customer by twenty (20). Company will estimate a peak month for new customers. A Maximum Daily Quantity may also be established through direct measurement or other means (i.e. estimating the peak day requirements after installation of new processing equipment or more energy efficient heating systems) if approved by [the] Company.*

**B. Add back Daily Firm Capacity (DFC) customer selections**

While interruptible, joint interruptible and transportation customer volumes were removed (as described above), in order to determine firm peak day load, daily firm capacity selections needed to be added back. The Sales and Revenue Forecasting department provided historical monthly DFC data for 59 "joint interruptible" customers from January 2007 through May 2008 that showed the volume that each customer has selected to receive as firm service from MERC each month. Assistance was required from MERC Gas Supply to properly assign these 59 customers to the appropriate regression demand area. Once assigned, the daily firm capacity volumes were summed by month for each demand area. The total volumes for January 2008 were than added back to the adjusted regression results.

### C. Apply Sales Forecast Growth Rates

The throughput volumes used in the data regressions were from 2008 and needed to be adjusted to properly forecast 2009. The sales forecast "MERC Fcst 200806", as approved by the Gas Planning Committee, was used to determine a growth rate for each demand area. Because the Peak Day Forecast is based on firm load, General Service volumes (GS - residential, commercial and industrial firm) were used as a proxy to calculate growth rates. These growth rates were then applied to the adjusted regression results.

**Major Differences from 2007 Approach to the 2008 Approach**

1. In 2007, estimates of the daily transport and interruptible volumes were removed from the total metered daily throughput to get estimated daily firm load before any regressions were performed. This was done by dividing monthly billing data by the number of days in the month, then subtracting these daily estimated volumes for transport and interruptible customers from total daily metered throughput. This method assumed transport and interruptible loads are not weather sensitive, but more process load. In 2008, no attempt was made to convert monthly volumes to daily amounts. Transport and interruptible volumes were backed out after regressions were performed on measured daily throughput volumes.
2. In 2007, changes in customer counts were used to calculate growth rates. In 2008, forecasted changes in volumes were used

3. In 2007, Farm Taps were handled uniquely, whereas in 2008, they were not treated different from any other customer.

**Demand Area / (Service Area / Pipeline) Regression Notes**

NMU-GLGT

Paper Mills = Ainsworth and Blandon in Bemidji, and Sappi and USG in Cloquet

NMU-GLGT

Direct Connects = U.S Gypsum

NMU-VGT

Note: Discussions were held regarding how best to handle Lamb Weston (RDO) and the decision was to include these volumes in the regression analysis. If 3 years of daily usage were available, consideration would have been given to excluding from the regression and then consistently removing comparable volumes along with the interruptible and transportation volumes.

PNG-NNG

Taconites / Direct Connects =

- CCI EMPIRE IND DEL PT 2 TILDEN
- CCI NORTHSHORE
- EVELETH TACONITE
- HIBBING TACONITE CO.
- U.S. STEEL
- NATIONAL STEEL PELLET
- COTTAGE GROVE TBS LS POWER

- INLAND STEEL
- HANNA MINING

PNG-NNG

OSEU (EndUsers) =

- CORRECTIONAL CTR
- GRAND CASINO HINCKLEY
- KEMPS LLC
- KERRY BIO-SCIENCE
- LAKESIDE
- LAND OF LAKES
- PRO-CORN
- SWIFT

**Daily Design Day Estimate to Actual Comparison**

In the 2007 demand entitlement dockets, MERC agreed to include a daily estimate utilizing the design day model which is calculated in Attachment 13. The daily estimate is compared to actual consumption. The actual volumes is total through-put which includes interruptible and transportation volumes that are located behind MERC citygates. This does not include any transportation volumes that are directly connected with NNG pipeline. The Design Day model only calculates firm volumes. MERC does not forecast on a daily/monthly basis utilizing the Design Day model. The Design Day model is utilized to calculate the theoretical peak day.

**Average Customer Counts**

In the 2007 demand entitlement dockets, MERC agreed to include average customer counts which is provided in Attachment 14.

C. MERC's Specific PNG Proposed Northern System Demand-Related Changes

There are two types of demand entitlement changes. The first type is design day deliverability, which, in this case, increases the amount of firm transportation and storage capacity actually available to MERC's PNG Northern system customers during winter peak periods. The second type does not affect design day deliverability levels, but alters the capacity portfolio and the PGA costs recovered from customers.

1. Design Day Deliverability Changes

As shown in Peoples' Attachment 3, MERC PNG_NNG proposes no changes in total heating season. Though there is no change in overall proposed entitlement level, the Company proposes changes to its portfolio of capacity services identified below in Table 4.

Table 4

| Capacity Entitlement | Propose Change Increase / (Decrease) |
|---|---|
| TF12B & TF12V | 2,792 Mcf/Day |
| TF5 | (2,792) Mcf/Day |
| TFX12 | 10,837 Mcf/Day |
| TFX5 | (10,837) Mcf/Day |
| Total Overall Change | 0 Mcf/Day |

2. Other Demand Entitlement Changes

As shown in the Attachment 10, MERC's PNG_NNG proposes an increase of Firm Deferred Delivery (storage) in other pipeline entitlements that are not included in peak day deliverability and the termination of the Tenaska PSO.

D. <u>Financial Option Units and Premiums</u>

i. MERC entered into New York Mercantile Exchange (NYMEX) financial Call Options for the upcoming 2008/2009 winter (November through March). Please see attachment 8.

ii. Total premium costs to enter into the financial Call Options on behalf of MERC's firm customers amounted to $5,216,072 for the 2008/2009 winter. Please see attachment 8.

iii. MERC entered into **[TRADE SECRET DATA BEGINS TRADE SECRET DATA ENDS]** Total premium per contract is approximately **[TRADE SECRET DATA BEGINS TRADE SECRET DATA ENDS]**. Please see attachment 8.

iv. Please see attachment 8 for the various contract dates.

v. Please see attachment 8 for the various contract prices.

vi. MERC believes a diversified portfolio approach towards hedging is in the best interest of MERC's firm customers. MERC implemented a 40% fixed price (storage and physical fixed price purchases), 30% financial call options and 30% market based prices, assuming normal weather. A dollar-cost-averaging approach is utilized in purchasing the hedging portfolio. Although this hedging strategy will most likely not provide the lowest priced supply, it does meet MERC's stated objectives of providing reliable and reasonably priced natural gas and mitigates natural gas price volatility. Please see Attachment 9, Page 1 of 2.

E. Gas Supply.

The PNG_NNG 2008-2009 Winter Portfolio Plan - Minnesota Energy Resources Corporation for NNG gas supply purchases for the Hedging Plan is in Attachment 9 page 2.

F. PGA Cost Recovery

MERC proposes to begin recovering the costs associated with the change in demand-related costs in its monthly PGA effective November 1, 2008. Rate impacts can be found on attachment 4 and 11.

## II. CONCLUSION

Based upon the foregoing, MERC respectfully requests the Minnesota Public Utilities Commission grant the demand changes requested herein effective November 1, 2008. If any further information, clarification, or substantiation is required to support this filing please advise.

DATED: November 3, 2008

Respectfully Submitted,

DORSEY & WHITNEY LLP

By ____________________
Michael J. Ahern
Suite 1500, 50 South Sixth Street
Minneapolis, MN 55402-1498
Telephone: (612) 340-2600

Attorney for Minnesota Energy Resources Corporation

**AFFIDAVIT OF SERVICE**

STATE OF MINNESOTA )
) ss.
COUNTY OF HENNEPIN )

Sarah J. Kerbeshian, being first duly sworn on oath, deposes and states that on the 3rd day of November, 2008, the Petition of Minnesota Energy Resources Corporation-PNG for Approval of a Change in Demand Entitlement was electronically filed with the Minnesota Public Utilities Commission and the Minnesota Department of Commerce, the Petition was provided via United States first class mail to the individuals on the attached service list at the Office of the Attorney General, and a Summary of the Filing was provided via United States first class mail to the remaining individuals on the attached service list. Additionally, a Notice of Availability was provided via United States First Class Mail to all intervenors in Aquila Networks-PNG's previous two rate cases.

Sarah J. Kerbeshian

Subscribed and sworn to before me
this 3rd day of November, 2008

Notary Public, State of Minnesota

PAULA R. BJORKMAN
NOTARY PUBLIC-MINNESOTA
My Commission Expires Jan. 31, 2010

Burl W. Haar
MN Public Utilities Commission
350 Metro Square Building
121 Seventh Place East
St. Paul, MN 55101-5147

Sharon Ferguson
MN Department of Commerce
85 Seventh Place East
Suite 500
St. Paul, MN 55101-2198

Julia Anderson
Attorney General's Office
1400 Bremer Tower
445 Minnesota Street
St. Paul, MN 55101-2131

Ronald M. Giteck
Attorney General's Office-RUD
900 Bremer Tower
445 Minnesota Street
St. Paul, MN 55101

Karen Finstad Hammel
Attorney General's Office
1400 Bremer Tower
445 Minnesota Street
St. Paul, MN 55101-2131

John Lindell
Attorney General's Office-RUD
900 Bremer Tower
445 Minnesota Street
St. Paul, MN 55101-2130

Robert S. Lee
Mackall Crounse & Moore PLC
1400 AT&T Tower
901 Marquette Avenue
Minneapolis, MN 55402-2859

Michael Ahern
Dorsey & Whtiney LLP
50 South Sixth Street, Suite 1500
Minneapolis, MN 55402-1498

Ann Seha
Dorsey & Whtiney LLP
50 South Sixth Street, Suite 1500
Minneapolis, MN 55402-1498

Michael J. Bradley
Moss & Barnett
4800 Wells Fargo Center
90 South Seventh Street
Minneapolis, MN 55402-4129

Marie Doyle
CenterPoint Energy
800 LaSalle Avenue – Fl. 11
P.O. Box 59038
Minneapolis, MN 55459-0038

Bob Freund
Rochester Post-Bulletin
P.O. Box 6118
Rochester, MN 55903-61188

Jack Kegel
MN Municipal Utilities Assn.
3025 Harbor Lane N.
Suite 400
Plymouth, MN 55447-5142

James D. Larson
Dahlen Berg & Co.
200 South Sixth Street
Suite 300
Minneapolis, MN 55402

Pam Marshall
Energy CENTS Coalition
823 East Seventh Street
St. Paul, MN 55106

Brian Meloy
Leonard, Street & Deinard
150 South Fifth Street
Suite 2300
Minneapolis, MN 55402

Eric F. Swanson
Winthrop & Weinstine
225 South Sixth Street
Suite 350
Minneapolis, MN 55402-4629

James R. Talcott
Northern Natural Gas Company
1111 South 103rd Street
Omaha, NE 68124

Greg Walters
Minnesota Energy Resources
519 First Avenue SW
P.O. Box 6538
Rochester, MN 55903-6538

# MINNESOTA ENERGY RESOURCES - PNG

## DESIGN-DAY DEMAND SUMMARY
## NOVEMBER 1, 2008
### NNG

| | | |
|---|---|---|
| Design Day Requirement | | 225,397 |
| Total Peak Day Entitlement | | 226,785 |
| Firm Peak Day Actual Sendout -Non Coincidental | (Jan. 29) | 182,809 |
| Firm Annual Throughput - Minnesota | | 20,387,988 |
| No. of Firm Customers | | 156,973 |
| Department Load Factor Calculation | | 30.56% |

# MINNESOTA ENERGY RESOURCES - PNG

## NNG MINNESOTA DESIGN DAY REQUIREMENTS

NOVEMBER 1, 2008

NNG

| Pipeline Group | Nov07-Mar 08 Avg. Customer Count | Zone Total Customer Count | 1/20 Design DDD | Regression Factors Intercept | Regression Factors Slope | Regression Total Footnote 1 | Regression Adjustment Footnote 2 | 1/20 Requirements Regression Load Footnote 3 | Nov06-Mar07 Avg. Customer Growth | Total * |
|---|---|---|---|---|---|---|---|---|---|---|
| **PEAK** | | | | | | | | | | |
| PNG | 156,973 | 156,973 | 99 | 30,318 | 2,189 | 248,585 | 21,599 | 226,986 | -0.70% | 225,397 |
| **Total** | 156,973 | 156,973 | | | | | | | | 225,397 |
| **OFF PEAK** | | | | | | | | | | |
| PNG | 156,973 | 156,973 | 57 | 30,318 | 2,189 | 155,091 | (1,264) | 156,355 | -0.70% | 155,261 |
| **Total** | 156,973 | 156,973 | | | | | | | | 155,261 |

* Adjusted for customer growth

**Footnote 1:** Regression Total is based on total through-put data.
**Footnote 2:** Regression Adjustment substracts out Interruptible, Transportation and Joint Interruptible volumes and adds Firm Joint volumes.
**Footnote 3:** Total equals Regression Total minus Regression Adjustment.

*57 is the 30 yr unadjusted heating degree days from NOAA, not adjusted for windspeed.

# MINNESOTA ENERGY RESOURCES - PNG

## DESIGN-DAY DEMAND PER CUSTOMER - GS

## NOVEMBER 1, 2008

| | | NNG | |
|---|---|---|---|
| Heating Season | No. of Firm Customers | Design Day Requirements | MMBtus /Customer /Day |
| 08/09 | 156,973 | 225,397 | 1.44 |
| 07/08 | 155,910 | 202,263 | 1.30 |
| 06/07 | 149,049 | 200,484 | 1.35 |
| 05/06 | 148,308 | 200,421 | 1.35 |
| 04/05 | 143,896 | 207,834 | 1.44 |
| 03/04 | 140,705 | 198,521 | 1.41 |
| 02/03 | 136,748 | 195,479 | 1.43 |

# MINNESOTA ENERGY RESOURCES - PNG

## SUMMER/WINTER USAGE - Mcf
## PROJECTED 12 MONTHS ENDING JUNE 2008
## NNG

| Class | Summer Apr-Oct | Winter Nov-Mar | Total |
|---|---|---|---|
| GS | 5,110,108 | 15,277,880 | 20,387,988 |
| SVI | 746,386 | 1,517,607 | 2,263,993 |
| SVJ | 0 | 0 | 0 |
| LVI | 0 | 0 | 0 |
| LVJ | 0 | 0 | 0 |
| SLV | 0 | 0 | 0 |
| **Total** | 5,856,494 | 16,795,487 | 22,651,981 |

# MINNESOTA ENERGY RESOURCES - PNG

## ENTITLEMENT LEVELS

## PROPOSED TO BE EFFECTIVE NOVEMBER 1, 2008

NNG

| Type of Capacity or Entitlement | Current Amount Mcf or MMBtu | Proposed Change Mcf or MMBtu | Proposed Amount Mcf or MMBtu |
|---|---|---|---|
| TF-12 Base & Variable | 59,804 | 2,792 | 62,596 |
| TF5 | 29,619 | (2,792) | 26,827 |
| TFX - 12 | 18,409 | 10,837 | 29,246 |
| TFX - 5 | 90,130 | (10,837) | 79,293 |
| TFX-Offpeak* | 12,837 | (10,837) | 2,000 |
| Windom | 2,500 | 0 | 2,500 |
| LSP Peaking Service | 26,323 | (0) | 26,323 |
| Heating Season Total | **226,785** | **(0)** | **226,785** |
| Non-Heating Season Total | 93,550 | 2,792 | 96,342 |
| Heating Season Forecasted Design Day-Adjusted | 202,263 | 23,134 | 225,397 |
| Non-Heating Season Forecasted Design Day | 132,307 | 22,954 | 155,261 |
| Heating Season Capacity Surplus/Shortage | 24,522 | (23,134) | 1,388 |
| Non-Heating Season Capacity Surplus/Shortage | (38,757) | (20,162) | (58,919) |

*Not included in total firm entitlement

# MINNESOTA ENERGY RESOURCES - PNG

**RATE IMPACT OF THE PROPOSED DEMAND CHANGE**
**NOVEMBER 1, 2008**
**NNG**

| All costs in $/MMBtu | Last Rate Case G011/ MR03-1372 | Last Demand Change G011-M-06-Oct.06 | Last Demand Change G011-M-07-Oct. 07 | Most Recent PGA Oct. 2008 | Current Proposal Effective Nov.1,2008 | Result of Proposed Change: Change from Last Rate Case | Change from Last Demand Change | Change from Last PGA | Change from Last PGA $ |
|---|---|---|---|---|---|---|---|---|---|
| **1) General Service: Avg. Annual Use:** | | **127** | | **Mcf** | | | | | |
| Commodity Cost | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | $3.2127 | ($0.8682) | 0.35% | $0.0208 |
| Demand Cost | $0.7886 | $1.1097 | $1.1741 | $1.0903 | $1.0909 | $0.3023 | ($0.0832) | 0.06% | $0.0006 |
| Commodity Margin | $1.2628 | $1.1771 | $1.1771 | $1.6263 | $1.6263 | $0.3635 | $0.4492 | 0.00% | $0.0000 |
| Total Cost of Gas | $4.8387 | $7.4702 | $9.2194 | $8.6958 | $8.7172 | $3.8785 | ($0.5022) | 0.25% | $0.0214 |
| Avg Annual Cost | $614.51 | $948.72 | $1,170.86 | $1,104.37 | $1,107.08 | $492.57 | ($63.78) | 0.25% | $2.7178 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $2.64 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.08 |
| **2) Small Vol. Interruptible: Avg. Annual Use:** | | **4,948** | | **Mcf** | | | | | |
| Commodity Cost | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | $3.2127 | ($0.8682) | 0.35% | $0.0208 |
| Demand Cost | $0.0000 | | | | | | | | |
| Commodity Margin | $0.9000 | $0.9000 | $0.9000 | $1.2434 | $1.2434 | $0.3434 | $0.3434 | 0.00% | $0.0000 |
| Total Cost of Gas | $3.6873 | $6.0834 | $7.7682 | $7.2226 | $7.2434 | $3.5561 | ($0.5248) | 0.29% | $0.0208 |
| Avg Annual Cost | $18,244.76 | $30,100.66 | $38,437.05 | $35,737.42 | $35,840.34 | $17,595.58 | ($2,596.71) | 0.29% | $102.9184 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $102.92 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.00 |
| **3) Large Vol. Interruptible: Avg. Annual Use:** | | **14,841** | | **Mcf** | | | | | |
| Commodity Cost | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | $3.2127 | ($0.8682) | 0.35% | $0.0208 |
| Demand Cost | | | | | | | | | |
| Commodity Margin | $0.2600 | $0.2600 | $0.2600 | $0.3592 | $0.3592 | $0.0992 | $0.0992 | 0.00% | $0.0000 |
| Total Cost of Gas | $3.0473 | $5.4434 | $7.1282 | $6.3384 | $6.3592 | $3.3119 | ($0.7690) | 0.33% | $0.0208 |
| Avg Annual Cost | $45,224.98 | $80,785.50 | $105,789.62 | $94,068.19 | $94,376.89 | $49,151.91 | ($11,412.73) | 0.33% | $308.6928 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $308.69 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.00 |
| **4) Small Vol. Firm: Avg. Annual Use:** | | **4,948**<br>**25** | | **Mcf**<br>**Mcf** | | | | | |
| Commodity Cost | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | $3.2127 | ($0.8682) | 0.35% | $0.0208 |
| Demand Cost | $10.1223 | $12.9002 | $13.1430 | $12.0195 | $12.0195 | $1.8972 | ($1.1235) | 0.00% | $0.0000 |
| Commodity Margin | $0.9000 | $0.9000 | $0.9000 | $1.2434 | $1.2434 | $0.3434 | $0.3434 | 0.00% | $0.0000 |
| Demand Margin | $1.5000 | $1.5000 | $1.5000 | $2.0724 | $2.0724 | $0.5724 | $0.5724 | 0.00% | $0.0000 |
| Total Cost of Gas | $3.6873 | $6.0834 | $7.7682 | $7.2226 | $7.2434 | $3.5561 | ($0.5248) | 0.29% | $0.0208 |
| Total Demand Cost | $11.6223 | $14.4002 | $14.6430 | $14.0919 | $14.0919 | $2.4696 | ($0.5511) | 0.00% | $0.0000 |
| Avg Annual Cost | $18,535.32 | $30,460.67 | $38,803.13 | $36,089.72 | $36,192.64 | $17,657.32 | ($2,610.49) | 0.29% | $102.9184 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $102.92 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.00 |
| **5) Large Vol. Firm: Avg. Annual Use:** | | **14,841**<br>**75** | | **Mcf**<br>**Mcf** | | | | | |
| Commodity Cost | $1.6138 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | $4.3862 | ($0.8682) | 0.35% | $0.0208 |
| Demand Cost | $10.1223 | $12.9002 | $13.1430 | $12.0195 | $12.0195 | $1.8972 | ($1.1235) | 0.00% | $0.0000 |
| Commodity Margin | $1.8069 | $0.2600 | $0.2600 | $0.3592 | $0.3592 | ($1.4477) | $0.0992 | 0.00% | $0.0000 |
| Demand Margin | $1.2000 | $1.2000 | $1.2000 | $1.6579 | $1.6579 | $0.4579 | $0.4579 | 0.00% | $0.0000 |
| Total Cost of Gas | $3.4207 | $5.4434 | $7.1282 | $6.3384 | $6.3592 | $2.9385 | ($0.7690) | 0.33% | $0.0208 |
| Total Demand Cost | $11.3223 | $14.1002 | $14.3430 | $13.6774 | $13.6774 | $2.3551 | ($0.6656) | 0.00% | $0.0000 |
| Avg Annual Cost | $51,615.78 | $81,843.01 | $106,865.34 | $95,094.00 | $95,402.69 | $14,598.58 | ($11,462.65) | 0.32% | $308.6928 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $308.69 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.00 |

Note: Average Annual Average based on PNG Annual Automatic Adjustment Report in
Docket No. E,G999/AA-05-1403

**MINNESOTA ENERGY RESOURCES - PNG**
**CALCULATION OF PURCHASED GAS ADJUSTMENT (PGA)**

| | | | | | | CURRENT | NNG |
|---|---|---|---|---|---|---|---|
| **IV. NORTHERN NATURAL GAS COMPANY'S RATES -- CURRENT COST OF GAS EFFECTIVE** | | | | | | 01-Nov-08 | |
| | | Tariff-Summer(7) | Tariff-Winter(5) | Wt. Annual | GRI | Total | |
| | TF-12B | $5.6830 | $10.2300 | $7.5776 | $0.0000 | $7.5776 | |
| | TF-12V | $5.6830 | $13.8660 | $9.0926 | $0.0000 | $9.0926 | |
| | TF-5 | | $15.1530 | $15.1530 | $0.0000 | $15.1530 | |
| | TFX | $5.6830 | $15.1530 | $9.6288 | $0.0000 | $9.6288 | |
| | TF-12B Discount | $5.6830 | $7.6050 | $6.4838 | $0.0000 | $6.4838 | |
| | Gas Cost | | | | | $6.0000 | |
| **V. ANNUAL SALES -- RATE CASE 2000 TOTAL** | | | | | | 200,990,260 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **VI. PNG'S CURRENT COST OF GAS EFFECTIVE:** | | | | | | 01-Nov-08 | | |
| | | | | | | | | Rate/CCF |
| | | Contract #(s) | | Months | | | | |
| **A. GS** | TF12B (Max Rate) | 112495 | 25,469 | 12 | $7.5776 | = | $2,315,922 | $0.01224 |
| | TF12V (Max Rate) | 112495 | 32,690 | 12 | $9.0926 | = | $3,566,839 | $0.01886 |
| | TF5 (Max Rate) | 112495 | 26,064 | 5 | $15.1530 | = | $1,974,739 | $0.01044 |
| | TF12B (Discount-Winter) | 112495 | 4,437 | 12 | $6.4838 | = | $345,225 | $0.00183 |
| | TF5 (Discount-Winter) | 112495 | 763 | 5 | $7.6050 | = | $29,013 | $0.00015 |
| | TFX5 (Discount) | 112561 | 6,000 | 5 | $4.5600 | = | $136,800 | $0.00072 |
| | TFX12 (Max Rate) | 112486 | 9,724 | 12 | $9.6288 | = | $1,123,569 | $0.00594 |
| | TFX Apr (Max Rate) | 112486 | 2,000 | 1 | $5.6830 | = | $11,366 | $0.00006 |
| | TFX Oct (Max Rate) | 112486 | 2,000 | 1 | $5.6830 | = | $11,366 | $0.00006 |
| | TFX5 (Max Rate) | 112486 | 46,558 | 5 | $15.1530 | = | $3,527,467 | $0.01865 |
| | TFX5 (Discount) | 112486 | 2,196 | 5 | $13.8736 | = | $152,332 | $0.00081 |
| | TFX5 (Discount) | 112486 | 1,800 | 5 | $7.6050 | = | $68,445 | $0.00036 |
| | TFX12 (Discount) | 111866 | 414 | 12 | $4.8667 | = | $24,178 | $0.00013 |
| | TFX12 (Discount) | 111866 | 8,271 | 12 | $5.4570 | = | $541,618 | $0.00286 |
| | TFX7 (Discount) | 111866 | 10,837 | 7 | $2.2204 | = | $168,437 | $0.00089 |
| | TFX5 (Discount) | 111866 | 122 | 5 | $4.8667 | = | $2,969 | $0.00002 |
| | TFX5 (Discount) | 111866 | 2,445 | 5 | $5.4570 | = | $66,712 | $0.00035 |
| | TFX5 (Discount) | 111866 | 31,009 | 5 | $15.1475 | = | $2,348,544 | $0.01242 |
| | SMS | 112521 | 20,537 | 12 | $2.1800 | = | $537,251 | $0.00284 |
| | LS Power | | 26,323 | 3 | $4.3463 | = | $343,217 | $0.00181 |
| | WINDOM | | 2,500 | 12 | $0.0000 | = | $0 | $0.00000 |
| FDD: | Storage Reservation | 118657 | 68,309 | 12 | $1.7140 | = | $1,404,989 | $0.00743 |
| | Storage Cycle Volume | 118657 | 787,676 | 5 | $0.3567 | = | $1,404,821 | $0.00743 |
| | Storage Reservation | 118657 | 5,026 | 12 | $3.3157 | = | $199,961 | $0.00106 |
| | Storage Cycle Volume | 118657 | 57,953 | 5 | $0.6901 | = | $199,967 | $0.00106 |
| | Storage Reservation | 118215 | 3,141 | 12 | $1.7140 | = | $64,609 | $0.00034 |
| | Storage Cycle Volume | 118215 | 36,221 | 5 | $0.3567 | = | $64,600 | $0.00034 |
| | Total Demand Cost | | | | | | $20,634,956 | $0.10909 |
| | **Rate Case 2000 volume in Ccf** | | | | | | 189,157,400 | |
| | **GS-1 Demand Current Cost of Gas/Ccf** | | | | | | | **$0.10909** |
| | **GS-1 Commodity Current Cost of Gas/Ccf** | | | | | | | **#REF!** |
| | **Total GS-1 Current Cost of Gas/Ccf** | | | | | | | **#REF!** |
| **B. GS-1, SVI, LVI, SJ-1, LJ-1, SLV-Commodity** | | | | | | | | |
| | CD-1 Commodity | | 21,021,013 | x | $6.0000 | | $126,126,078 | $0.60000 |
| | Commodity Assigned 636 Costs from Schedule C | | | | | | #REF! | #REF! |
| | | | | | | | #REF! | #REF! |
| | CURRENT FIRM TRANSPORTATION COST OF GAS (CCF) | | | | | | | $0.75776 |
| **C. JOINT RATE DEMAND CALCULATION (SEE SCHEDULE C)** | | | | | $1.18206 | | | $1.18206 |

**MINNESOTA ENERGY RESOURCES - PNG** 
**PGA** CURRENT 
**EFFECTIVE DATE:** 11/01/08 NNG

**COSTS ASSIGNED IN COMMODITY:**

| Canadian Contracts | | Units (b) | Cost/Unit | Day/Mo | Cost (d) | $/Ccf |
|---|---|---|---|---|---|---|
| Upstream: | | | | | | |
| Great Lakes | | 0 | $3.458 | 12 | $0 | $0.00000 |
| | | | | | | $0.00000 |
| Storage: | Contract # | | | | | |
| FDD Withdrawal | 112490 | 4,669,321 | $0.0149 | | $69,573 | $0.00033 |
| FDD Injection | 112490 | 4,669,321 | $0.0149 | | $69,573 | $0.00033 |
| FDD Withdrawal | 113407 | 300,000 | $0.0149 | | $4,470 | $0.00002 |
| FDD Injection | 113407 | 300,000 | $0.0149 | | $4,470 | $0.00002 |
| | | | | | | $0.00070 |
| Call Option Premiums | | #REF! | #REF! | | #REF! | #REF! |
| Total Commodity Costs | | | | | #REF! | #REF! |

**COSTS ASSIGNED IN JOINT RATE:**

| | Units | Contract # | Month | Cost/Unit | | Cost | $/Ccf |
|---|---|---|---|---|---|---|---|
| TF12B (Max Rate) | 25,469 | 112495 | 12 | $7.5776 | = | $2,315,922 | $0.13267 |
| TF12V (Max Rate) | 32,690 | 112495 | 12 | $9.0926 | = | $3,566,839 | $0.20432 |
| TF5 (Max Rate) | 26,064 | 112495 | 5 | $15.1530 | = | $1,974,739 | $0.11312 |
| TF12B (Discount-Winter) | 4,437 | 112495 | 12 | $6.4838 | = | $345,225 | $0.01978 |
| TF5 (Discount-Winter) | 763 | 112495 | 5 | $7.6050 | = | $29,013 | $0.00166 |
| TFX5 (Discount) | 6,000 | 112561 | 5 | $4.5600 | = | $136,800 | $0.00784 |
| TFX12 (Max Rate) | 9,724 | 112486 | 12 | $9.6288 | = | $1,123,569 | $0.06436 |
| TFX Apr (Max Rate) | 2,000 | 112486 | 1 | $5.6830 | = | $11,366 | $0.00065 |
| TFX Oct (Max Rate) | 2,000 | 112486 | 1 | $5.6830 | = | $11,366 | $0.00065 |
| TFX5 (Max Rate) | 46,558 | 112486 | 5 | $15.1530 | = | $3,527,467 | $0.20207 |
| TFX5 (Discount) | 2,196 | 112486 | 5 | $13.8736 | = | $152,332 | $0.00873 |
| TFX5 (Discount) | 1,800 | 112486 | 5 | $7.6050 | = | $68,445 | $0.00392 |
| TFX12 (Discount) | 414 | 111866 | 12 | $4.8667 | = | $24,178 | $0.00139 |
| TFX12 (Discount) | 8,271 | 111866 | 12 | $5.4570 | = | $541,618 | $0.03103 |
| TFX7 (Discount) | 10,837 | 111866 | 7 | $2.2204 | = | $168,437 | $0.00965 |
| TFX5 (Discount) | 122 | 111866 | 5 | $4.8667 | = | $2,969 | $0.00017 |
| TFX5 (Discount) | 2,445 | 111866 | 5 | $5.4570 | = | $66,712 | $0.00382 |
| TFX5 (Discount) | 31,009 | 111866 | 5 | $15.1475 | = | $2,348,544 | $0.13454 |
| SMS | 20,537 | 112521 | 12 | $2.1800 | = | $537,251 | $0.03078 |
| LS Power | 26,323 | | 3 | $4.3463 | = | $343,217 | $0.01966 |
| WINDOM | 2,500 | | 12 | $0.0000 | = | $0 | $0.00000 |
| Storage Reservation | 68,309 | 118657 | 12 | $1.7140 | = | $1,404,989 | $0.08048 |
| Storage Cycle Volume | 787,676 | 118657 | 5 | $0.3567 | = | $1,404,821 | $0.08047 |
| Storage Reservation | 5,026 | 118657 | 12 | $3.3157 | = | $199,961 | $0.01145 |
| Storage Cycle Volume | 57,953 | 118657 | 5 | $0.6901 | = | $199,967 | $0.01146 |
| Storage Reservation | 3,141 | 118215 | 12 | $1.7140 | = | $64,609 | $0.00370 |
| Storage Cycle Volume | 36,221 | 118215 | 5 | $0.3567 | = | $64,600 | $0.00370 |
| | | | | **TOTAL** | | $20,634,956 | |
| | | | | Annualized Entitlement | | 17,456,724 | |
| | | | | **Demand Component** | | $1.18206 | $1.18206 |

# MINNESOTA ENERGY RESOURCES

Attachment 5

## NNG Entitlement Allocation

### Heating Season 2008-2009

0

| | Total Entitlement Levels | PNG GS | NMU GS | Total |
|---|---|---|---|---|
| 1 Design Day | **247,188** | 225,397 | 21,791 | **247,188** |
| 2 Customer Requirements moving to Transport | - | - | - | - |
| 3 Adjusted Design Day | **247,188** | 225,397 | 21,791 | 247,188 |
| 5 Total Design Day Capacity | **257,448** | 233,785 | 23,663 | **257,448** |
| 6 Less: Windom | (2,500) | (2,500) | | **(2,500)** |
| 7 Less: LS Power | (29,100) | (26,323) | (2,777) | **(29,100)** |
| 8 Less: Chisago Delivery to Viking | (7,000) | (7,000) | | **(7,000)** |
| 9 Less: Contract Demand Units | 0 | 0 | | - |
| | 218,848 | 197,962 | 20,886 | **218,848** |
| Direct Assigned Entitlement | | | | |
| 10 TF12B (112495) | 32,559 | 29,906 | 2,653 | **32,559** |
| 11 TF12V (112495) | 39,333 | 32,690 | 6,643 | **39,333** |
| 12 TF5 (112495) | 32,278 | 26,827 | 5,451 | **32,278** |
| 13 TFX12 (112486) | 9,724 | 9,724 | 0 | **9,724** |
| 14 TFX April Only (112486) | 2,000 | 2,000 | 0 | **2,000** |
| 15 TFX October Only (112486) | 2,000 | 2,000 | 0 | **2,000** |
| 16 TFX5 (112486) | 56,693 | 50,554 | 6,139 | **56,693** |
| 17 TFX12 (111866) | 19,522 | 19,522 | 0 | **19,522** |
| 18 TFX5 (111866) | 22,739 | 22,739 | 0 | **22,739** |
| 19 TFX5 (112561) | 6,000 | 6,000 | 0 | **6,000** |
| 20 Total Winter Allocated Entitlement | 218,848 | 197,962 | 20,886 | **218,848** |
| 21 Windom | 2,500 | 2,500 | 0 | **2,500** |
| 22 LS Power | 29,100 | 26,323 | 2,777 | **29,100** |
| 23 Total Design Day Capacity | **250,448** | **226,785** | **23,663** | 250,448 |
| 24 Contract Demand | | | | - |
| 25 Total Design Day Capacity | **250,448** | 226,785 | 23,663 | **250,448** |
| | | 90.55% | 9.45% | **100.00%** |
| Other Entitlements not included in Peak Day Deliverability: allocation based on design day % on line 19 | | | | |
| 26 Storage | | | | |
| 27 Storage MSQ - 118657 | 4,669,321 | 4,228,147 | 441,174 | **4,669,321** |
| 28 Storage MSQ - 118215 | 20,000 | 18,110 | 1,890 | **20,000** |
| 29 SMS | 22,680 | 20,537 | 2,143 | **22,680** |
| 30 Total Entitlement | 250,448 | 226,785 | 23,663 | **250,448** |
| 31 Design Day | 247,188 | 225,397 | 21,791 | **247,188** |
| 32 Reserve Margin * | 3,260 | 1,388 | 1,872 | **3,260** |
| Note: | 1.32% | 0.62% | 8.59% | 1.32% |

# MINNESOTA ENERGY RESOURCES - PNG

## CALCULATION OF DESIGN DAY REQUIREMENTS

NNG

2008-2009

| State | 1/20 Design DDD | 07/08 Customer Counts* | Regression Factors Intercept | Slope | Regression Total | Adjustment Total * | 1/20 Requirements Regression Load | Nov06-Mar07 Customer Growth | Total |
|---|---|---|---|---|---|---|---|---|---|
| **MERC - Peak Day** | | | | | | | | | |
| **PNG** | 99 | 156,973 | 30,318 | 2,189 | 248,585 | 21,599 | 226,986 | -0.70% | 225,397 |
| **NMU** | 103 | 16,989 | 2,847 | 241 | 27,684 | 5,980 | 21,704 | 0.40% | 21,791 |
| **TOTAL** | | **173,962** | **33,165** | **2,430** | **276,269** | **27,579** | **248,690** | | **247,188** |

# MINNESOTA ENERGY RESOURCES-PNG/NMU CAPACITY RESOURCE ANALYSIS

## 2008-2009 VS. 2007-2008

**Attachment 7**

| | 2008-2009 Proposed | | | | 2007-2008 | | | | Difference | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NNG Winter | NNG PNG | NNG NMU | NNG Total | NNG Winter | NNG PNG | NNG NMU | NNG Total | Winter | PNG | NMU | Total |
| TF12(base) | 32,559 | 29,906 | 2,653 | 32,559 | 46,812 | 43,858 | 2,954 | 46,812 | (14,253) | (13,952) | (301) | (14,253) |
| TF12(variable) | 39,333 | 32,690 | 6,643 | 39,333 | 25,748 | 15,946 | 9,802 | 25,748 | 13,585 | 16,744 | (3,159) | 13,585 |
| TF12 | 71,892 | 62,596 | 9,296 | 71,892 | 72,560 | 59,804 | 12,756 | 72,560 | (668) | 2,792 | (3,460) | (668) |
| Peak Capacity | - | | | - | - | | | - | - | | | - |
| TF5 | 32,278 | 26,827 | 5,451 | 32,278 | 31,610 | 29,619 | 1,991 | 31,610 | 668 | (2,792) | 3,460 | 668 |
| TF Total | 104,170 | 89,423 | 14,747 | 104,170 | 104,170 | 89,423 | 14,747 | 104,170 | - | - | - | - |
| TFX12 | 29,246 | 29,246 | - | 29,246 | 18,409 | 18,409 | - | 18,409 | 10,837 | 10,837 | - | 10,837 |
| TFX5 | 85,432 | 79,293 | 6,139 | 85,432 | 96,269 | 90,130 | 6,139 | 96,269 | (10,837) | (10,837) | - | (10,837) |
| TFX Total | 114,678 | 108,539 | 6,139 | 114,678 | 114,678 | 108,539 | 6,139 | 114,678 | - | - | - | - |
| NNG Total | 218,848 | 197,962 | 20,886 | 218,848 | 218,848 | 197,962 | 20,886 | 218,848 | - | - | - | - |
| Windom | 2,500 | 2,500 | - | 2,500 | 2,500 | 2,500 | - | 2,500 | - | - | - | - |
| LSP Peaking | 29,100 | 26,323 | 2,777 | 29,100 | 29,100 | 26,323 | 2,777 | 29,100 | - | (0) | 0 | 0 |
| | | | | | | | | | - | | | |
| Total | 250,448 | 226,785 | 23,663 | 250,448 | 250,448 | 226,785 | 23,663 | 250,448 | - | (0) | 0 | 0 |

| NNG-Total | EF | TOTAL |
|---|---|---|
| Design Day | 247,188 | 247,188 |
| Capacity | 250,448 | 250,448 |
| Reserve Margin | 3,260 | 3,260 |
| | 1.32% | 1.32% |

| NNG-PNG | EF | TOTAL |
|---|---|---|
| Design Day | 225,397 | 225,397 |
| Capacity | 226,785 | 226,785 |
| Reserve Margin | 1,388 | 1,388 |
| | 0.62% | 0.62% |

| NNG-Total | EF | TOTAL |
|---|---|---|
| Design Day | 21,791 | 21,791 |
| Capacity | 23,663 | 23,663 |
| Reserve Margin | 1,872 | 1,872 |
| | 8.59% | 8.59% |

***PUBLIC DOCUMENT - TRADE SECRET DATA EXCISED***

# MINNESOTA ENERGY RESOURCES - NNG

Attachment 8

## Financial Options
### Heating Season 2008-2009

[TRADE SECRET DATA BEGINS

**Units - Gas Daily Packages**

No Gas Daily Peakers were purchased

**Units - Call Option (Daily Volume)**

| | November | | December | | January | | February | | March | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Contract Date | Daily Volume | Contract Date | Daily Volume | Contract Date | Daily Volume | Contract Date | Daily Volume | Contract Date | Daily Volume | Daily Total | Term Total |
| Total | | 24,000 | | 33,226 | | 36,129 | | 33,929 | | 25,484 | 152,767 | 4,610,000 |

**Premium - Call Option (Monthly Cost)**

| | November | | December | | January | | February | | March | | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Option Premium | Premium Cost | Option Premium | Premium Cost | Option Premium | Premium Cost | Option Premium | Premium Cost | Option Premium | Premium Cost | Option Premium | Premium Cost |
| Total | $ 0.9405 | $ 677,177 | $ 0.9620 | $ 990,846 | $ 1.1427 | $ 1,279,855 | $ 1.3178 | $ 1,296,662 | $ 1.2298 | $ 971,533 | $ 1.1315 | $ 5,216,072 |

**Units - Collar Floor (put)**

TRADE SECRET DATA ENDS]

***PUBLIC DOCUMENT - TRADE SECRET DATA EXCISED***

***NONPUBLIC DOCUMENT - CONTAINS TRADE SECRET DATA***



## 08/09 Winter Portfolio Plan - MERC NNG-PNG Hedging Plan

[TRADE SECRET DATA BEGINS

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | 15,272,339 | 100.00% |

TRADE SECRET DATA ENDS]

***PUBLIC DOCUMENT - TRADE SECRET DATA EXCISED***

# MINNESOTA ENERGY RESOURCES

NNG WINTER PLAN (PNG)
NOVEMBER, 2008 THROUGH MARCH, 2009

[TRADE SECRET DATA BEGINS

| | |
|---|---|
| Total | 4,071,031 |

TRADE SECRET DATA ENDS]

# MINNESOTA ENERGY RESOURCES - PNG

**Attachment 10**
**NNG**
**As Proposed**
**08-**

| | M-04-1766 Peoples Mn GS | M-05-1728 Peoples Mn GS | M-06-1536 Peoples Mn GS | M-07- Peoples Mn GS | M-08- Peoples Mn GS | Proposed Change |
|---|---|---|---|---|---|---|
| Design Day | 207,834 | 200,421 | 200,484 | 202,263 | 225,397 | 23,134 |
| Customer Requirements moving to Transportation 2005-6 | | 400 | | | | |
| Adjusted Design Day | | 200,021 | | | | |
| Design Day Percentages | 33.79% | 33.71% | 33.79% | 32.16% | 30.56% | -1.60% |
| Total Design Day Capacity (includes non-recallable capacity) | 219,984 | 210,127 | 227,526 | 233,785 | 233,785 | 0 |
| Less: Windom | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 0 |
| Less: LS Power | 6,120 | 6,120 | 29,100 | 26,323 | 26,323 | 0 |
| Less: TF12B | 5,927 | 5,927 | 42,170 | 7,000 | 7,000 | 0 |
| Less: TF5 | 2,073 | 2,073 | 36,772 | | | 0 |
| Less: TFX(5) | 0 | 0 | 73,190 | | | 0 |
| Total Design Day Capacity | 203,364 | 193,507 | 195,926 | 197,962 | 197,962 | 0 |
| Factors for All Winter Capacity | 45.50% | 45.27% | 100.00% | 100.00% | 100.00% | |
| Allocated Entitlements in PGA | | | | | | |
| TF12B | 69,105 | 68,765 | 42,170 | 43,858 | 29,906 | -13,952 |
| TF12V | 0 | 0 | 34,070 | 15,946 | 32,690 | 16,744 |
| TF5 | 93,690 | 84,713 | 36,772 | 29,619 | 26,827 | -2,792 |
| TFX12 | 0 | 0 | 9,724 | 18,409 | 18,409 | 0 |
| TFX(5) | 23,052 | 22,598 | 73,190 | 90,130 | 90,130 | 0 |
| TFX(5) (12-V) | 6,143 | 6,113 | 0 | 0 | 0 | 0 |
| LS Power | 0 | 0 | 0 | 26,323 | 26,323 | 0 |
| Peak Capacity | 11,374 | 11,318 | 0 | 0 | | 0 |
| Total Allocated Entitlements in PGA | 203,364 | 193,507 | 195,926 | 224,285 | 224,285 | 0 |
| Direct Assigned Entitlements in PGA | | | | | | |
| Windom | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | 0 |
| LS Power | 6,120 | 6,120 | 29,100 | 26,323 | 26,323 | 0 |
| TFX (October Only) | 0 | 0 | 2,000 | 2,000 | 2,000 | 0 |
| TFX (April Only) | 0 | 0 | 2,000 | 2,000 | 2,000 | 0 |
| TFX(5) | 5,927 | 5,927 | 0 | 0 | | 0 |
| TFX(7) | 2,073 | 2,073 | 0 | 0 | | 0 |
| TFX(5) | 0 | 0 | 0 | 0 | | 0 |
| Total Direct Assignments | 16,620 | 16,620 | 35,600 | 32,823 | 32,823 | 0 |
| Total Capacity before Peak Shaving | 219,984 | 210,127 | 231,526 | 257,108 | 257,108 | 0 |
| LP Peak Shaving | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Design Day Capacity | 219,984 | 210,127 | 227,526 | 253,108 | 253,108 | 0 |
| Total Transp. (with TFX Offpeak less LSP) | 272,069 | 262,081 | 198,426 | 226,785 | 226,785 | 0 |
| Total Annual Transportation | 75,032 | 68,765 | 88,464 | 80,713 | 83,505 | 2,792 |
| Total Seasonal Transportation | 136,332 | 126,815 | 139,062 | 172,395 | 169,603 | -2,792 |
| Total Percent Seasonal | 62.0% | 60.4% | 61.1% | 68.1% | 67.0% | -1.10% |
| LS Power as % of Total DD Capacity | 2.8% | 2.9% | 12.8% | 10.4% | 10.4% | 0.00% |
| Reserve Margin | 5.85% | 5.05% | 13.49% | 25.14% | 12.29% | -12.84% |
| Direct Assigned Demand Not in PGA | | | | | | |
| TF-12-B Contract Demand | 0 | 0 | 0 | 0 | | 0 |
| Total Design Day Capacity w/ contract demand | 219,984 | 210,127 | 227,526 | 233,785 | 233,785 | 0 |
| Factors | 33.79% | 33.71% | 33.79% | 32.16% | 30.56% | -1.60% |
| Other Entitlements not included in Peak Day Deliverability | | | | | | |
| Field TF (TFF) (NMU direct assigned) | 0 | 0 | 0 | 0 | 0 | 0 |
| TFX Offpeak Old Oct. (60,000) | 20,272 | 20,227 | 0 | 0 | 0 | 0 |
| TFX Offpeak Old Oct. (35,000) | 11,825 | 11,799 | 0 | 0 | 0 | 0 |
| TFX Offpeak New Oct. (14,600) | 4,933 | 4,922 | 0 | 0 | 0 | 0 |
| TFX Offpeak New Apr. (39,600) | 13,380 | 13,350 | 0 | 0 | 0 | 0 |
| TFX Oct | 0 | 0 | 2,000 | 2,000 | 2,000 | 0 |
| TFX Apr | 0 | 0 | | 2,000 | 2,000 | 0 |
| TFX Apr-Oct | 2,861 | 2,855 | 0 | 0 | 10,837 | 10,837 |
| TFX May-Sept | 4,933 | 4,922 | 0 | 0 | 0 | 0 |
| FDD Storage reservation | 46,935 | 46,830 | 69,094 | 73,022 | 76,476 | 3,454 |
| FDD Storage capacity | 2,706,028 | 2,699,984 | 4,349,321 | 4,210,037 | 4,246,258 | 36,221 |
| Nexen PSO | 86,157 | 85,964 | 0 | 0 | 0 | 0 |
| Tenaska PSO New | 168,935 | 168,558 | 188,000 | 170,237 | 0 | -170,237 |
| NGPL | 1,202,218 | 1,199,532 | 0 | 0 | 0 | 0 |
| SMS | 18,245 | 18,204 | 22,680 | 20,537 | 20,537 | 0 |
| SBA | 2,399,879 | 0 | 0 | 0 | 0 | 0 |

# MINNESOTA ENERGY RESOURCES - PNG

**Attachment 11**
**Rate Impacts**
**NNG**

| **1) General Service: Avg. Annual Use:** | | | | **127 Mcf** | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Recovery | *Last Demand Change M-04-1766* | *Last Demand Change M-06-XXXX* | *Last Demand Change M-07-XXXX* | *Most Recent PGA Oct 1/08* | *Nov1/08 PGA w/ Proposed Demand Changes*** | *% Change From Last Rate Case* | *% Change From Last Demand Filing* | *% Change From Last PGA* | *$ Change From Last PGA* |
| Commodity Rate | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | 115.26% | -12.64% | 0.35% | $0.0208 |
| Demand Rate | $0.7886 | $1.1097 | $1.1741 | $1.0903 | $1.0909 | 38.33% | -7.09% | 0.06% | $0.0006 |
| Margin | $1.2628 | $1.1771 | $1.1771 | $1.6263 | $1.6263 | 28.79% | 38.16% | 0.00% | $0.0000 |
| Total Recovery | $4.8387 | $7.4702 | $9.2194 | $8.6958 | $8.7172 | 80.16% | -5.45% | 0.25% | $0.0214 |
| Avg. Annual Bill* | $614.51 | $948.72 | $1,170.86 | $1,104.37 | $1,107.08 | 80.16% | -5.45% | 0.25% | $2.7178 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $2.6416 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.0762 |

| **2) Small Volume Interruptible: Avg. Annual Use:** | | | **4,948** | **4,948 Mcf** | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Recovery | *Last Demand Change M-04-1766* | *Last Demand Change M-06-XXXX* | *Most Recent Change M-07-XXXX* | *Most Recent PGA Oct 1/08* | *Nov1/08 PGA w/ Proposed Demand Changes*** | *% Change From Last Rate Case* | *% Change From Last Demand Filing* | *% Change From Last PGA* | *$ Change From Last PGA* |
| Commodity Rate | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | 115.26% | -12.64% | 0.35% | $0.0208 |
| Demand Rate | | | | | | | | | $0.0000 |
| Margin | $0.9000 | $0.9000 | $0.9000 | $1.2434 | $1.2434 | 38.16% | 38.16% | 0.00% | $0.0000 |
| Total Recovery | $3.6873 | $6.0834 | $7.7682 | $7.2226 | $7.2434 | 96.44% | -6.76% | 0.29% | $0.0208 |
| Avg. Annual Bill* | $18,244.76 | $30,100.66 | $38,437.05 | $35,737.42 | $35,840.34 | 96.44% | -6.76% | 0.29% | $102.9184 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $102.9184 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.0000 |

| **3) Large Volume Interruptible: Avg. Annual Use:** | | | **14,841** | **14,841 Mcf** | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Recovery | *Last Demand Change M-04-1766* | *Last Demand Change M-06-XXXX* | *Most Recent PGA M-07-XXXX* | *Most Recent PGA Oct 1/08* | *Nov1/08 PGA w/ Proposed Demand Changes*** | *% Change From Last Rate Case* | *% Change From Last Demand Filing* | *% Change From Last PGA* | *$ Change From Last PGA* |
| Commodity Rate | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | 115.26% | -12.64% | 0.35% | $0.0208 |
| Demand Rate | | | | | | | | | $0.0000 |
| Margin | $0.2600 | $0.2600 | $0.2600 | $0.3592 | $0.3592 | 38.15% | 38.15% | 0.00% | $0.0000 |
| Total Recovery | $3.0473 | $5.4434 | $7.1282 | $6.3384 | $6.3592 | 108.68% | -10.79% | 0.33% | $0.0208 |
| Avg. Annual Bill* | $45,224.98 | $80,785.50 | $105,789.62 | $94,068.19 | $94,376.89 | 108.68% | -10.79% | 0.33% | $308.6928 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $308.6928 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.0000 |

| **4) Small Volume Firm: Avg. Annual Use:** | | | | **4,948 Mcf** | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Avg. Annual CD Volumes:** | | | | **25 Mcf** | | | | | |
| Recovery | *Last Demand Change M-04-1766* | *Last Demand Change M-06-XXXX* | *Most Recent PGA M-07-XXXX* | *Most Recent PGA Oct 1/08* | *Nov1/08 PGA w/ Proposed Demand Changes*** | *% Change From Last Rate Case* | *% Change From Last Demand Filing* | *% Change From Last PGA* | *$ Change From Last PGA* |
| Commodity Rate | $2.7873 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | 115.26% | -12.64% | 0.35% | $0.0208 |
| Demand Rate | $10.1223 | $12.9002 | $13.1430 | $12.0195 | $12.0195 | 18.74% | -8.55% | 0.00% | $0.0000 |
| Comm. Margin | $0.9000 | $0.9000 | $0.9000 | $1.2434 | $1.2434 | 38.16% | 38.16% | 0.00% | $0.0000 |
| SV Dem. Margin | $1.5000 | $1.5000 | $1.5000 | $2.0724 | $2.0724 | 38.16% | 38.16% | 0.00% | $0.0000 |
| Total Commodity Cost | $3.6873 | $6.0834 | $7.7682 | $7.2226 | $7.2434 | 96.44% | -6.76% | 0.29% | $0.0208 |
| Total Demand Cost | $11.6223 | $14.4002 | $14.6430 | $14.0919 | $14.0919 | 21.25% | -3.76% | 0.00% | $0.0000 |
| Avg. Annual Bill* | $18,535.32 | $30,460.67 | $38,803.13 | $36,089.72 | $36,192.64 | 95.26% | -6.73% | 0.29% | $102.9184 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $102.9184 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.0000 |

| **5) Large Volume Firm: Avg. Annual Use:** | | | | **14,841 Mcf** | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Avg. Annual CD Units:** | | | | **75 Mcf** | | | | | |
| Recovery | *Last Demand Change M-04-1766* | *Last Demand Change M-06-XXXX* | *Most Recent PGA M-07-XXXX* | *Most Recent PGA Oct 1/08* | *Nov1/08 PGA w/ Proposed Demand Changes*** | *% Change From Last Rate Case* | *% Change From Last Demand Filing* | *% Change From Last PGA* | *$ Change From Last PGA* |
| Commodity Rate | $1.6138 | $5.1834 | $6.8682 | $5.9792 | $6.0000 | 271.79% | -12.64% | 0.35% | $0.0208 |
| Demand Rate | $10.1223 | $12.9002 | $13.1430 | $12.0195 | $12.0195 | 18.74% | -8.55% | 0.00% | $0.0000 |
| Comm. Margin | $1.8069 | $0.2600 | $0.2600 | $0.3592 | $0.3592 | -80.12% | 38.15% | 0.00% | $0.0000 |
| LV Dem. Margin | $1.2000 | $1.2000 | $1.2000 | $1.6579 | $1.6579 | 38.16% | 38.16% | 0.00% | $0.0000 |
| Total Commodity Cost | $3.4207 | $5.4434 | $7.1282 | $6.3384 | $6.3592 | 85.90% | -10.79% | 0.33% | $0.0208 |
| Total Demand Cost | $11.3223 | $14.1002 | $14.3430 | $13.6774 | $13.6774 | 20.80% | -4.64% | 0.00% | $0.0000 |
| Avg. Annual Bill* | $51,615.78 | $81,843.01 | $106,865.34 | $95,094.00 | $95,402.69 | 84.83% | -10.73% | 0.32% | $308.6928 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | $308.6928 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | $0.0000 |

* Average Annual Bill amount does not include customer charges.
** Commodity includes Upstream costs.

| Customer Class | Commodity Change ($/Mcf) | Commodity Change (Percent) | Commodity Change (Percent) | Demand Change ($/Mcf) | Demand Change (Percent) | Total Change ($/Mcf) | | Total Change (Percent) |
|---|---|---|---|---|---|---|---|---|
| All Firm | $0.0208 | 0.35% | 2.08% | $0.0006 | 0.06% | 0.0214 | | 0.25% |
| Sm Vol Inter. Service | $0.0208 | 0.35% | 2.08% | $0.0000 | 0.00% | 0.0208 | | 0.29% |
| Lrg Vol Inter. Service | $0.0208 | 0.35% | 2.08% | $0.0000 | 0.00% | 0.0208 | | 0.33% |
| Sm Vol Joint Service | $0.0208 | 0.35% | 2.08% | $0.0000 | 0.00% | 0.0208 | *** | 0.29% |
| Lrg Vol Joint Service | $0.0208 | 0.35% | 2.08% | $0.0000 | 0.00% | 0.0208 | *** | 0.33% |

*** Joint total change includes only commodity change since not all joint customers purchase CD units.

# MINNESOTA ENERGY RESOURCES - PNG

**Attachment 12**
**Change in Costs due to November 1, 2006 Change in Entitlement Levels and Related Demand Costs**
**NNG**

| | Oct-08 PGA | Nov-08 Entitlement | Entitlement Change | Months | Oct-08 Rate/MCF | Oct-08 Total Cost | Entitlement Total Cost | Entitlement Change |
|---|---|---|---|---|---|---|---|---|
| TF-12-B (Max Rate) | 38,658 | 25,469 | (13,189) | 12 | $ 7.5776 | $3,515,211 | $2,315,922 | ($1,199,289) |
| TF-12-B (Discount) | 5,200 | 4,437 | (763) | 12 | $ 6.4838 | $404,591 | $345,225 | ($59,366) |
| TF-12-V (Max Rate) | 15,946 | 32,690 | 16,744 | 12 | $ 9.0926 | $1,739,884 | $3,566,839 | $1,826,955 |
| TF-5 (Max Rate) | 29,619 | 26,064 | (3,555) | 5 | $ 15.1530 | $2,244,084 | $1,974,739 | ($269,345) |
| TFX-12 (Max Rate) | 9,724 | 9,724 | 0 | 12 | $ 9.6288 | $1,123,569 | $1,123,569 | $0 |
| TFX-12 (Discount) | 414 | 414 | 0 | 12 | $ 4.8667 | $24,178 | $24,178 | $0 |
| TFX-12 (Discount) | 8,271 | 8,271 | 0 | 12 | $ 5.4570 | $541,618 | $541,618 | $0 |
| TFX-5 (Max Rate) | 46,558 | 46,558 | 0 | 5 | $ 15.1530 | $3,527,467 | $3,527,467 | $0 |
| TFX-5 (Discount) | 0 | 0 | 0 | 5 | $ 4.5600 | $0 | $0 | $0 |
| TFX-5 (Discount) | 0 | 0 | 0 | 5 | $ 5.9921 | $0 | $0 | $0 |
| TFX-5 (Discount) | 2,196 | 2,196 | 0 | 5 | $ 13.8736 | $152,332 | $152,332 | $0 |
| TFX-5 (Discount) | 1,800 | 1,800 | 0 | 5 | $ 7.6050 | $68,445 | $68,445 | $0 |
| TFX-5 (Discount) | 122 | 122 | 0 | 5 | $ 4.8667 | $2,969 | $2,969 | $0 |
| TFX-5 (Discount) | 2,445 | 2,445 | 0 | 5 | $ 5.4570 | $66,712 | $66,712 | $0 |
| TFX-5 (Discount) | 31,009 | 31,009 | 0 | 5 | $ 15.1475 | $2,348,544 | $2,348,544 | $0 |
| TFX-7 (Discount) | 10,837 | 10,837 | 0 | 7 | $ 2.2204 | $168,437 | $168,437 | $0 |
| TFX Oct (Max Rate) | 2,000 | 2,000 | 0 | 1 | $ 5.6830 | $11,366 | $11,366 | $0 |
| TFX Apr (Max Rate) | 2,000 | 2,000 | 0 | 1 | $ 5.6830 | $11,366 | $11,366 | $0 |
| SMS Charge | 20,537 | 20,537 | 0 | 12 | $ 2.1800 | $537,248 | $537,251 | $3 |
| LS Power | 26,323 | 26,323 | (0) | 3 | $ 4.3463 | $343,219 | $343,217 | ($2) |
| WINDOM | 2,500 | 2,500 | 0 | 12 | $ - | $0 | $0 | $0 |
| FDD: Res Fee | 73,022 | 76,476 | 3,454 | 12 | $ 1.7140 | $1,501,916 | $1,572,965 | $71,048 |
| FDD: Capacity | 4,210,037 | 4,246,258 | 36,221 | | $ 0.3567 | $0 | $0 | $0 |
| Tenaska Storage | 172,193 | 0 | (172,193) | 1 | $ 2.0035 | $344,989 | $0 | ($344,989) |
| Total Demand Cost | | | | | | $18,678,145 | $18,703,160 | $25,015 |

| **Costs Assigned In Commodity:** | Oct-08 PGA | Nov-08 Entitlement | Entitlement Change | Months | Oct-08 Rate/MCF | Oct-08 Total Cost | Entitlement Total Cost | Entitlement Change |
|---|---|---|---|---|---|---|---|---|
| Upstream | | | | | | | | |
| Great Lakes | 0 | 0 | 0 | 12 | $3.458 | $20,250 | $0 | ($20,250) |
| | | | 0 | | | | $0 | $0 |
| Surcharges: | | | 0 | | | | $0 | $0 |
| | | | 0 | | | | $0 | $0 |
| Storage | | | 0 | | | | $0 | $0 |
| FDD Withdrawal | 4,210,037 | 4,246,258 | 36,221 | 1 | $0.0149 | $62,730 | $63,269 | $540 |
| FDD Injection | 4,210,037 | 4,246,258 | 36,221 | 1 | $0.0149 | $62,730 | $63,269 | $540 |
| | | | | | | | $0 | $0 |
| | | | | | | | $0 | $0 |
| Producer Demand Payments/Option Premium | | | | | | $3,462,430 | $5,216,072 | $1,753,642 |
| Total Commodity Costs | | | | | | $3,608,139 | $5,342,611 | $1,734,472 |

# MINNESOTA ENERGY RESOURCES - PNG

**Attachment 13**
**Daily Total Throughput Data - July 1, 2007 through June 30, 2008**
**NNG**

| | |
|---|---|
| Base | 50,260 |
| Variable | 1,421 |

| Date | 3.27% Cloquet Adjusted HDD | 32.62% Minneapolis Adjusted HDD | 64.11% Rochester Adjusted HDD | 100.00% Weighted Adjusted HDD | Actual Total Through-Put * | Estimated Through-Put ** |
|---|---|---|---|---|---|---|
| 7/1/07 | 11 | 0 | 0 | 0 | 29,492 | 50,766 |
| 7/2/07 | 9 | 0 | 0 | 0 | 33,822 | 50,699 |
| 7/3/07 | 1 | 0 | 0 | 0 | 34,619 | 50,307 |
| 7/4/07 | 0 | 0 | 0 | 0 | 26,910 | 50,260 |
| 7/5/07 | 0 | 0 | 0 | 0 | 36,126 | 50,260 |
| 7/6/07 | 0 | 0 | 0 | 0 | 35,063 | 50,260 |
| 7/7/07 | 0 | 0 | 0 | 0 | 37,982 | 50,260 |
| 7/8/07 | 0 | 0 | 0 | 0 | 33,520 | 50,260 |
| 7/9/07 | 0 | 0 | 0 | 0 | 47,298 | 50,260 |
| 7/10/07 | 9 | 0 | 0 | 0 | 43,807 | 50,680 |
| 7/11/07 | 7 | 0 | 1 | 1 | 33,655 | 51,575 |
| 7/12/07 | 7 | 0 | 0 | 0 | 33,160 | 50,569 |
| 7/13/07 | 12 | 0 | 1 | 1 | 28,880 | 51,777 |
| 7/14/07 | 1 | 0 | 0 | 0 | 25,306 | 50,311 |
| 7/15/07 | 4 | 0 | 0 | 0 | 27,747 | 50,455 |
| 7/16/07 | 2 | 0 | 0 | 0 | 36,165 | 50,356 |
| 7/17/07 | 0 | 0 | 0 | 0 | 54,216 | 50,260 |
| 7/18/07 | 0 | 0 | 0 | 0 | 56,015 | 50,260 |
| 7/19/07 | 3 | 0 | 0 | 0 | 38,383 | 50,408 |
| 7/20/07 | 8 | 0 | 1 | 1 | 28,738 | 51,599 |
| 7/21/07 | 1 | 0 | 0 | 0 | 25,255 | 50,309 |
| 7/22/07 | 2 | 0 | 0 | 0 | 29,031 | 50,358 |
| 7/23/07 | 0 | 0 | 0 | 0 | 52,631 | 50,260 |
| 7/24/07 | 0 | 0 | 0 | 0 | 65,942 | 50,260 |
| 7/25/07 | 0 | 0 | 0 | 0 | 64,447 | 50,260 |
| 7/26/07 | 0 | 0 | 0 | 0 | 57,010 | 50,260 |
| 7/27/07 | 0 | 0 | 0 | 0 | 39,743 | 50,260 |
| 7/28/07 | 0 | 0 | 0 | 0 | 25,709 | 50,260 |
| 7/29/07 | 0 | 0 | 0 | 0 | 30,144 | 50,260 |
| 7/30/07 | 0 | 0 | 0 | 0 | 57,891 | 50,260 |
| 7/31/07 | 0 | 0 | 0 | 0 | 58,644 | 50,260 |
| 8/1/07 | 0 | 0 | 0 | 0 | 49,219 | 50,260 |
| 8/2/07 | 0 | 0 | 0 | 0 | 45,905 | 50,260 |
| 8/3/07 | 0 | 0 | 0 | 0 | 32,348 | 50,260 |
| 8/4/07 | 0 | 0 | 3 | 2 | 29,339 | 53,294 |
| 8/5/07 | 1 | 0 | 0 | 0 | 29,281 | 50,308 |
| 8/6/07 | 1 | 0 | 0 | 0 | 44,442 | 50,308 |
| 8/7/07 | 0 | 0 | 0 | 0 | 47,866 | 50,260 |
| 8/8/07 | 0 | 0 | 0 | 0 | 49,637 | 50,260 |
| 8/9/07 | 0 | 0 | 0 | 0 | 46,585 | 50,260 |
| 8/10/07 | 0 | 0 | 0 | 0 | 49,401 | 50,260 |
| 8/11/07 | 0 | 0 | 0 | 0 | 36,281 | 50,260 |
| 8/12/07 | 2 | 0 | 0 | 0 | 36,091 | 50,359 |
| 8/13/07 | 6 | 0 | 0 | 0 | 46,578 | 50,553 |
| 8/14/07 | 0 | 0 | 0 | 0 | 38,568 | 50,260 |
| 8/15/07 | 0 | 0 | 0 | 0 | 37,925 | 50,260 |
| 8/16/07 | 5 | 0 | 0 | 0 | 34,919 | 50,511 |
| 8/17/07 | 7 | 0 | 1 | 1 | 30,177 | 51,574 |
| 8/18/07 | 13 | 4 | 8 | 7 | 27,258 | 60,070 |
| 8/19/07 | 8 | 4 | 3 | 4 | 29,344 | 55,738 |
| 8/20/07 | 8 | 2 | 0 | 1 | 32,115 | 51,653 |
| 8/21/07 | 0 | 0 | 0 | 0 | 32,283 | 50,260 |
| 8/22/07 | 0 | 0 | 0 | 0 | 35,184 | 50,260 |
| 8/23/07 | 0 | 0 | 0 | 0 | 35,227 | 50,260 |
| 8/24/07 | 6 | 0 | 0 | 0 | 30,787 | 50,553 |
| 8/25/07 | 4 | 0 | 0 | 0 | 26,610 | 50,450 |
| 8/26/07 | 1 | 0 | 0 | 0 | 28,444 | 50,310 |
| 8/27/07 | 0 | 0 | 0 | 0 | 34,363 | 50,260 |
| 8/28/07 | 0 | 0 | 0 | 0 | 34,933 | 50,260 |
| 8/29/07 | 7 | 0 | 0 | 0 | 34,258 | 50,608 |
| 8/30/07 | 9 | 0 | 0 | 0 | 33,959 | 50,699 |
| 8/31/07 | 4 | 0 | 0 | 0 | 29,170 | 50,457 |
| 9/1/07 | 0 | 0 | 0 | 0 | 24,847 | 50,260 |
| 9/2/07 | 0 | 0 | 0 | 0 | 24,007 | 50,260 |
| 9/3/07 | 5 | 0 | 0 | 0 | 27,637 | 50,506 |
| 9/4/07 | 8 | 0 | 0 | 0 | 40,479 | 50,615 |
| 9/5/07 | 0 | 0 | 0 | 0 | 44,125 | 50,260 |
| 9/6/07 | 0 | 0 | 0 | 0 | 44,570 | 50,260 |
| 9/7/07 | 2 | 0 | 0 | 0 | 31,350 | 50,365 |
| 9/8/07 | 14 | 3 | 2 | 3 | 28,649 | 54,320 |
| 9/9/07 | 14 | 7 | 4 | 5 | 30,476 | 58,011 |
| 9/10/07 | 12 | 5 | 7 | 7 | 38,307 | 60,033 |
| 9/11/07 | 21 | 10 | 14 | 13 | 41,387 | 68,742 |
| 9/12/07 | 23 | 12 | 13 | 13 | 39,162 | 68,486 |
| 9/13/07 | 13 | 6 | 3 | 4 | 40,307 | 56,612 |
| 9/14/07 | 29 | 19 | 21 | 21 | 46,214 | 80,048 |
| 9/15/07 | 25 | 16 | 18 | 18 | 33,754 | 75,538 |
| 9/16/07 | 8 | 1 | 2 | 2 | 33,395 | 53,163 |
| 9/17/07 | 6 | 0 | 0 | 0 | 37,301 | 50,553 |
| 9/18/07 | 2 | 0 | 0 | 0 | 41,989 | 50,357 |
| 9/19/07 | 15 | 1 | 1 | 2 | 39,516 | 52,467 |
| 9/20/07 | 19 | 0 | 0 | 1 | 36,454 | 51,147 |
| 9/21/07 | 3 | 0 | 0 | 0 | 36,634 | 50,415 |
| 9/22/07 | 6 | 2 | 2 | 2 | 29,810 | 53,539 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9/23/07 | 0 | 0 | 0 | 0 | 30,184 | 50,260 |
| 9/24/07 | 0 | 0 | 0 | 0 | 40,976 | 50,260 |
| 9/25/07 | 12 | 6 | 3 | 4 | 41,287 | 56,401 |
| 9/26/07 | 18 | 8 | 10 | 9 | 42,860 | 63,711 |
| 9/27/07 | 10 | 3 | 3 | 3 | 40,067 | 55,210 |
| 9/28/07 | 16 | 8 | 7 | 8 | 35,903 | 61,652 |
| 9/29/07 | 11 | 1 | 1 | 1 | 30,895 | 52,365 |
| 9/30/07 | 4 | 0 | 0 | 0 | 31,030 | 50,464 |
| 10/1/07 | 9 | 5 | 4 | 5 | 35,420 | 57,161 |
| 10/2/07 | 5 | 3 | 5 | 4 | 39,199 | 56,346 |
| 10/3/07 | 9 | 4 | 4 | 5 | 38,140 | 56,767 |
| 10/4/07 | 2 | 0 | 0 | 0 | 42,873 | 50,359 |
| 10/5/07 | 15 | 0 | 0 | 0 | 40,797 | 50,949 |
| 10/6/07 | 18 | 0 | 0 | 1 | 36,841 | 51,085 |
| 10/7/07 | 5 | 0 | 0 | 0 | 38,403 | 50,499 |
| 10/8/07 | 11 | 6 | 3 | 5 | 42,413 | 56,831 |
| 10/9/07 | 26 | 16 | 17 | 17 | 56,158 | 74,259 |
| 10/10/07 | 27 | 22 | 21 | 22 | 70,259 | 80,821 |
| 10/11/07 | 30 | 19 | 24 | 22 | 71,933 | 82,048 |
| 10/12/07 | 28 | 20 | 20 | 20 | 58,419 | 79,230 |
| 10/13/07 | 24 | 14 | 11 | 13 | 44,478 | 68,492 |
| 10/14/07 | 27 | 17 | 15 | 16 | 51,156 | 73,514 |
| 10/15/07 | 24 | 18 | 14 | 15 | 61,670 | 72,216 |
| 10/16/07 | 24 | 12 | 10 | 11 | 55,488 | 65,847 |
| 10/17/07 | 17 | 7 | 8 | 8 | 47,542 | 61,377 |
| 10/18/07 | 15 | 8 | 8 | 8 | 49,172 | 61,847 |
| 10/19/07 | 18 | 14 | 15 | 15 | 51,089 | 71,001 |
| 10/20/07 | 16 | 7 | 9 | 9 | 36,984 | 62,648 |
| 10/21/07 | 18 | 12 | 10 | 11 | 53,256 | 66,132 |
| 10/22/07 | 25 | 18 | 22 | 21 | 72,671 | 79,956 |
| 10/23/07 | 22 | 15 | 17 | 17 | 65,732 | 73,755 |
| 10/24/07 | 27 | 20 | 22 | 22 | 71,738 | 80,957 |
| 10/25/07 | 20 | 19 | 22 | 21 | 66,627 | 80,686 |
| 10/26/07 | 24 | 21 | 22 | 22 | 62,996 | 81,019 |
| 10/27/07 | 29 | 21 | 21 | 21 | 63,687 | 80,663 |
| 10/28/07 | 34 | 21 | 23 | 23 | 62,792 | 82,785 |
| 10/29/07 | 17 | 13 | 14 | 13 | 56,145 | 69,283 |
| 10/30/07 | 15 | 7 | 7 | 7 | 46,645 | 60,534 |
| 10/31/07 | 22 | 14 | 21 | 19 | 70,196 | 76,596 |
| 11/1/07 | 29 | 22 | 24 | 23 | 66,794 | 83,041 |
| 11/2/07 | 24 | 18 | 22 | 21 | 66,647 | 79,575 |
| 11/3/07 | 29 | 25 | 27 | 27 | 64,693 | 88,207 |
| 11/4/07 | 27 | 22 | 22 | 23 | 57,140 | 82,253 |
| 11/5/07 | 35 | 25 | 30 | 28 | 93,613 | 90,340 |
| 11/6/07 | 38 | 35 | 37 | 37 | 103,426 | 102,359 |
| 11/7/07 | 38 | 33 | 37 | 36 | 102,183 | 100,920 |
| 11/8/07 | 38 | 33 | 34 | 34 | 103,622 | 98,328 |
| 11/9/07 | 36 | 33 | 32 | 33 | 94,657 | 96,554 |
| 11/10/07 | 34 | 29 | 29 | 29 | 72,525 | 91,877 |
| 11/11/07 | 26 | 17 | 18 | 18 | 55,238 | 75,583 |
| 11/12/07 | 23 | 21 | 28 | 25 | 82,985 | 86,296 |
| 11/13/07 | 23 | 20 | 29 | 26 | 76,418 | 87,144 |
| 11/14/07 | 34 | 28 | 31 | 30 | 101,680 | 92,630 |
| 11/15/07 | 39 | 32 | 35 | 34 | 95,542 | 99,199 |
| 11/16/07 | 36 | 29 | 28 | 28 | 82,410 | 90,244 |
| 11/17/07 | 39 | 32 | 36 | 35 | 89,086 | 99,604 |
| 11/18/07 | 39 | 35 | 35 | 35 | 87,527 | 100,339 |
| 11/19/07 | 31 | 27 | 29 | 28 | 87,956 | 90,624 |
| 11/20/07 | 36 | 31 | 32 | 32 | 97,740 | 95,529 |
| 11/21/07 | 46 | 38 | 41 | 40 | 107,994 | 107,202 |
| 11/22/07 | 55 | 45 | 44 | 44 | 115,970 | 113,421 |
| 11/23/07 | 49 | 43 | 47 | 46 | 104,745 | 115,131 |
| 11/24/07 | 42 | 34 | 37 | 36 | 95,268 | 101,969 |
| 11/25/07 | 37 | 30 | 37 | 34 | 90,041 | 99,179 |
| 11/26/07 | 43 | 35 | 38 | 37 | 120,518 | 103,275 |
| 11/27/07 | 63 | 53 | 51 | 52 | 142,746 | 123,670 |
| 11/28/07 | 57 | 49 | 50 | 50 | 147,913 | 121,172 |
| 11/29/07 | 65 | 58 | 56 | 57 | 158,044 | 130,947 |
| 11/30/07 | 68 | 59 | 61 | 61 | 154,114 | 136,526 |
| 12/1/07 | 57 | 50 | 49 | 50 | 129,726 | 121,024 |
| 12/2/07 | 51 | 54 | 52 | 52 | 150,498 | 124,790 |
| 12/3/07 | 61 | 56 | 58 | 58 | 153,635 | 132,236 |
| 12/4/07 | 54 | 53 | 52 | 53 | 146,913 | 124,996 |
| 12/5/07 | 70 | 58 | 62 | 61 | 164,720 | 137,153 |
| 12/6/07 | 63 | 55 | 64 | 61 | 149,399 | 136,877 |
| 12/7/07 | 68 | 60 | 58 | 59 | 161,112 | 134,567 |
| 12/8/07 | 72 | 66 | 68 | 68 | 161,889 | 146,383 |
| 12/9/07 | 73 | 60 | 59 | 60 | 156,735 | 134,901 |
| 12/10/07 | 62 | 55 | 54 | 55 | 143,758 | 128,238 |
| 12/11/07 | 58 | 51 | 49 | 50 | 154,211 | 121,245 |
| 12/12/07 | 59 | 56 | 60 | 59 | 149,115 | 133,887 |
| 12/13/07 | 59 | 50 | 52 | 52 | 153,742 | 123,965 |
| 12/14/07 | 68 | 61 | 63 | 63 | 168,600 | 139,116 |
| 12/15/07 | 66 | 57 | 52 | 54 | 143,172 | 126,438 |
| 12/16/07 | 54 | 50 | 58 | 55 | 140,601 | 128,951 |
| 12/17/07 | 52 | 46 | 55 | 52 | 133,063 | 123,651 |
| 12/18/07 | 47 | 46 | 47 | 47 | 127,282 | 116,799 |
| 12/19/07 | 43 | 46 | 48 | 47 | 128,545 | 117,059 |
| 12/20/07 | 39 | 40 | 41 | 41 | 108,981 | 108,529 |
| 12/21/07 | 35 | 34 | 33 | 34 | 95,761 | 97,869 |
| 12/22/07 | 49 | 48 | 49 | 49 | 140,406 | 119,727 |
| 12/23/07 | 64 | 66 | 72 | 70 | 160,551 | 149,155 |
| 12/24/07 | 55 | 58 | 54 | 56 | 127,583 | 129,242 |
| 12/25/07 | 51 | 43 | 42 | 43 | 107,806 | 111,032 |
| 12/26/07 | 42 | 43 | 43 | 43 | 119,301 | 111,503 |
| 12/27/07 | 57 | 41 | 44 | 44 | 126,238 | 112,421 |
| 12/28/07 | 57 | 49 | 50 | 50 | 134,521 | 120,828 |

**MERC**

| | | | | | | |
|---|---|---|---|---|---|---|
| 12/29/07 | 50 | 46 | 49 | 48 | 127,012 | 118,091 |
| 12/30/07 | 48 | 50 | 50 | 50 | 127,960 | 121,325 |
| 12/31/07 | 54 | 50 | 52 | 52 | 146,645 | 123,514 |
| 1/1/08 | 71 | 67 | 70 | 69 | 170,993 | 147,877 |
| 1/2/08 | 69 | 67 | 70 | 69 | 171,420 | 148,133 |
| 1/3/08 | 58 | 55 | 62 | 60 | 140,857 | 135,283 |
| 1/4/08 | 48 | 47 | 47 | 47 | 113,401 | 117,069 |
| 1/5/08 | 41 | 42 | 36 | 38 | 93,954 | 104,316 |
| 1/6/08 | 34 | 29 | 31 | 30 | 88,707 | 93,538 |
| 1/7/08 | 35 | 34 | 32 | 33 | 98,604 | 97,013 |
| 1/8/08 | 40 | 39 | 40 | 40 | 116,412 | 106,719 |
| 1/9/08 | 47 | 46 | 43 | 44 | 113,349 | 112,481 |
| 1/10/08 | 42 | 35 | 36 | 36 | 108,809 | 101,213 |
| 1/11/08 | 46 | 43 | 44 | 44 | 117,152 | 112,341 |
| 1/12/08 | 47 | 45 | 45 | 45 | 116,195 | 113,991 |
| 1/13/08 | 52 | 49 | 50 | 50 | 133,593 | 120,772 |
| 1/14/08 | 63 | 61 | 63 | 62 | 168,563 | 138,564 |
| 1/15/08 | 60 | 60 | 62 | 61 | 140,451 | 137,193 |
| 1/16/08 | 57 | 53 | 51 | 52 | 145,168 | 124,104 |
| 1/17/08 | 68 | 65 | 66 | 66 | 169,275 | 143,992 |
| 1/18/08 | 78 | 72 | 75 | 74 | 188,381 | 155,621 |
| 1/19/08 | 83 | 79 | 82 | 81 | 190,559 | 165,484 |
| 1/20/08 | 79 | 75 | 77 | 76 | 174,389 | 158,351 |
| 1/21/08 | 72 | 63 | 64 | 64 | 174,842 | 141,519 |
| 1/22/08 | 69 | 68 | 76 | 73 | 172,266 | 154,057 |
| 1/23/08 | 80 | 73 | 77 | 76 | 190,367 | 157,789 |
| 1/24/08 | 76 | 71 | 81 | 78 | 179,594 | 161,042 |
| 1/25/08 | 60 | 59 | 64 | 62 | 148,357 | 138,500 |
| 1/26/08 | 49 | 47 | 57 | 53 | 133,262 | 125,748 |
| 1/27/08 | 50 | 43 | 46 | 45 | 105,909 | 114,551 |
| 1/28/08 | 35 | 33 | 32 | 32 | 106,064 | 96,429 |
| 1/29/08 | 68 | 64 | 65 | 64 | 209,766 | 141,898 |
| 1/30/08 | 88 | 81 | 81 | 82 | 189,774 | 166,206 |
| 1/31/08 | 70 | 64 | 65 | 65 | 163,078 | 142,028 |
| 2/1/08 | 57 | 51 | 51 | 51 | 123,054 | 122,689 |
| 2/2/08 | 42 | 43 | 45 | 44 | 120,439 | 112,899 |
| 2/3/08 | 42 | 49 | 47 | 47 | 122,315 | 117,419 |
| 2/4/08 | 44 | 40 | 39 | 40 | 113,443 | 106,396 |
| 2/5/08 | 45 | 39 | 40 | 40 | 120,710 | 107,121 |
| 2/6/08 | 54 | 48 | 52 | 51 | 141,281 | 122,442 |
| 2/7/08 | 55 | 53 | 58 | 56 | 137,053 | 130,286 |
| 2/8/08 | 49 | 46 | 46 | 46 | 120,836 | 115,994 |
| 2/9/08 | 71 | 64 | 65 | 65 | 175,882 | 143,020 |
| 2/10/08 | 89 | 84 | 90 | 88 | 197,203 | 175,085 |
| 2/11/08 | 78 | 71 | 70 | 71 | 176,527 | 150,584 |
| 2/12/08 | 59 | 56 | 63 | 61 | 159,638 | 136,558 |
| 2/13/08 | 62 | 52 | 64 | 60 | 141,479 | 135,336 |
| 2/14/08 | 73 | 59 | 59 | 60 | 162,612 | 134,907 |
| 2/15/08 | 81 | 66 | 69 | 68 | 161,055 | 147,039 |
| 2/16/08 | 56 | 47 | 57 | 53 | 116,136 | 126,170 |
| 2/17/08 | 49 | 45 | 45 | 45 | 133,437 | 114,330 |
| 2/18/08 | 69 | 69 | 71 | 70 | 182,129 | 149,912 |
| 2/19/08 | 78 | 68 | 73 | 71 | 181,675 | 151,755 |
| 2/20/08 | 78 | 73 | 75 | 74 | 182,633 | 156,116 |
| 2/21/08 | 75 | 62 | 67 | 65 | 163,915 | 143,275 |
| 2/22/08 | 58 | 49 | 60 | 57 | 139,345 | 130,608 |
| 2/23/08 | 52 | 45 | 56 | 52 | 119,801 | 124,094 |
| 2/24/08 | 47 | 40 | 47 | 44 | 101,117 | 113,421 |
| 2/25/08 | 48 | 38 | 37 | 37 | 120,614 | 103,462 |
| 2/26/08 | 56 | 49 | 54 | 52 | 137,095 | 124,373 |
| 2/27/08 | 56 | 49 | 56 | 53 | 135,528 | 126,246 |
| 2/28/08 | 58 | 46 | 58 | 54 | 124,446 | 126,768 |
| 2/29/08 | 53 | 48 | 50 | 49 | 121,310 | 120,102 |
| 3/1/08 | 57 | 49 | 52 | 51 | 112,885 | 123,183 |
| 3/2/08 | 46 | 37 | 37 | 37 | 114,108 | 102,997 |
| 3/3/08 | 62 | 55 | 52 | 53 | 141,987 | 126,212 |
| 3/4/08 | 60 | 50 | 51 | 51 | 123,505 | 122,547 |
| 3/5/08 | 57 | 51 | 52 | 52 | 141,464 | 124,193 |
| 3/6/08 | 70 | 58 | 58 | 58 | 153,952 | 132,922 |
| 3/7/08 | 73 | 65 | 67 | 67 | 168,990 | 144,819 |
| 3/8/08 | 65 | 60 | 66 | 64 | 133,269 | 141,871 |
| 3/9/08 | 58 | 47 | 47 | 48 | 131,291 | 117,913 |
| 3/10/08 | 56 | 47 | 52 | 51 | 116,136 | 122,152 |
| 3/11/08 | 33 | 28 | 35 | 33 | 85,290 | 97,004 |
| 3/12/08 | 36 | 31 | 31 | 31 | 91,651 | 94,258 |
| 3/13/08 | 31 | 25 | 26 | 26 | 76,718 | 86,766 |
| 3/14/08 | 41 | 33 | 32 | 33 | 92,633 | 96,790 |
| 3/15/08 | 46 | 40 | 38 | 39 | 96,003 | 105,513 |
| 3/16/08 | 47 | 38 | 35 | 36 | 97,379 | 101,990 |
| 3/17/08 | 42 | 35 | 34 | 35 | 102,225 | 99,666 |
| 3/18/08 | 34 | 32 | 31 | 31 | 96,434 | 94,383 |
| 3/19/08 | 39 | 30 | 29 | 29 | 86,083 | 91,896 |
| 3/20/08 | 47 | 33 | 30 | 32 | 86,402 | 95,523 |
| 3/21/08 | 45 | 38 | 38 | 38 | 105,828 | 104,408 |
| 3/22/08 | 38 | 34 | 38 | 37 | 91,515 | 102,995 |
| 3/23/08 | 46 | 39 | 40 | 40 | 105,875 | 106,971 |
| 3/24/08 | 48 | 43 | 44 | 44 | 95,646 | 112,531 |
| 3/25/08 | 37 | 32 | 33 | 33 | 94,845 | 96,743 |
| 3/26/08 | 41 | 33 | 30 | 31 | 85,606 | 94,629 |
| 3/27/08 | 46 | 33 | 34 | 34 | 99,805 | 98,716 |
| 3/28/08 | 44 | 34 | 33 | 34 | 84,436 | 98,372 |
| 3/29/08 | 34 | 31 | 32 | 32 | 77,040 | 95,328 |
| 3/30/08 | 30 | 22 | 25 | 24 | 72,226 | 85,072 |
| 3/31/08 | 39 | 36 | 33 | 34 | 107,012 | 98,956 |
| 4/1/08 | 36 | 35 | 36 | 35 | 94,141 | 100,518 |
| 4/2/08 | 40 | 34 | 33 | 34 | 85,232 | 98,034 |
| 4/3/08 | 27 | 22 | 24 | 24 | 72,076 | 83,848 |

**MERC**

| | | | | | | |
|---|---|---|---|---|---|---|
| 4/4/08 | 29 | 18 | 21 | 20 | 56,889 | 79,235 |
| 4/5/08 | 28 | 13 | 15 | 15 | 46,534 | 71,404 |
| 4/6/08 | 37 | 21 | 17 | 19 | 70,217 | 77,532 |
| 4/7/08 | 37 | 32 | 32 | 32 | 89,796 | 95,732 |
| 4/8/08 | 37 | 32 | 32 | 32 | 89,368 | 95,694 |
| 4/9/08 | 30 | 27 | 31 | 29 | 81,676 | 91,878 |
| 4/10/08 | 40 | 33 | 33 | 33 | 97,825 | 97,464 |
| 4/11/08 | 45 | 36 | 31 | 33 | 95,523 | 97,323 |
| 4/12/08 | 38 | 36 | 39 | 38 | 98,091 | 103,875 |
| 4/13/08 | 35 | 31 | 34 | 33 | 82,697 | 97,031 |
| 4/14/08 | 36 | 27 | 26 | 26 | 68,641 | 87,613 |
| 4/15/08 | 19 | 13 | 20 | 18 | 52,124 | 75,563 |
| 4/16/08 | 20 | 7 | 7 | 8 | 47,829 | 61,146 |
| 4/17/08 | 24 | 18 | 22 | 21 | 68,088 | 80,052 |
| 4/18/08 | 29 | 21 | 25 | 24 | 68,484 | 84,427 |
| 4/19/08 | 28 | 21 | 20 | 20 | 53,927 | 79,050 |
| 4/20/08 | 29 | 10 | 7 | 9 | 38,825 | 62,942 |
| 4/21/08 | 22 | 3 | 1 | 3 | 41,957 | 53,878 |
| 4/22/08 | 20 | 14 | 13 | 14 | 45,577 | 69,834 |
| 4/23/08 | 16 | 4 | 9 | 8 | 35,588 | 61,098 |
| 4/24/08 | 19 | 8 | 8 | 8 | 43,883 | 61,953 |
| 4/25/08 | 28 | 22 | 19 | 20 | 70,857 | 79,340 |
| 4/26/08 | 41 | 35 | 34 | 35 | 79,585 | 99,307 |
| 4/27/08 | 37 | 29 | 28 | 29 | 72,025 | 90,884 |
| 4/28/08 | 36 | 33 | 33 | 33 | 87,523 | 96,946 |
| 4/29/08 | 31 | 26 | 27 | 27 | 62,897 | 88,611 |
| 4/30/08 | 24 | 17 | 20 | 19 | 46,090 | 77,060 |
| 5/1/08 | 28 | 9 | 12 | 11 | 42,953 | 66,412 |
| 5/2/08 | 30 | 18 | 11 | 14 | 57,388 | 70,382 |
| 5/3/08 | 29 | 22 | 24 | 24 | 52,710 | 83,852 |
| 5/4/08 | 22 | 10 | 15 | 14 | 40,779 | 69,556 |
| 5/5/08 | 24 | 12 | 9 | 10 | 37,133 | 64,596 |
| 5/6/08 | 18 | 4 | 0 | 2 | 34,844 | 53,047 |
| 5/7/08 | 18 | 9 | 7 | 8 | 44,038 | 61,333 |
| 5/8/08 | 24 | 12 | 11 | 11 | 40,253 | 66,331 |
| 5/9/08 | 23 | 11 | 10 | 10 | 37,039 | 65,010 |
| 5/10/08 | 27 | 13 | 14 | 14 | 45,259 | 70,563 |
| 5/11/08 | 27 | 19 | 19 | 19 | 46,926 | 77,456 |
| 5/12/08 | 29 | 12 | 16 | 15 | 39,196 | 71,929 |
| 5/13/08 | 23 | 10 | 10 | 11 | 45,863 | 65,497 |
| 5/14/08 | 18 | 13 | 11 | 12 | 38,531 | 67,134 |
| 5/15/08 | 16 | 6 | 8 | 8 | 32,374 | 61,551 |
| 5/16/08 | 8 | 0 | 2 | 2 | 27,596 | 52,716 |
| 5/17/08 | 16 | 2 | 5 | 4 | 29,114 | 56,181 |
| 5/18/08 | 22 | 13 | 15 | 14 | 35,641 | 70,830 |
| 5/19/08 | 25 | 15 | 13 | 14 | 43,555 | 69,875 |
| 5/20/08 | 16 | 13 | 14 | 14 | 39,768 | 69,625 |
| 5/21/08 | 16 | 11 | 13 | 12 | 35,886 | 67,663 |
| 5/22/08 | 18 | 5 | 6 | 6 | 32,357 | 59,356 |
| 5/23/08 | 18 | 7 | 6 | 6 | 29,446 | 59,256 |
| 5/24/08 | 16 | 3 | 7 | 6 | 24,478 | 58,932 |
| 5/25/08 | 9 | 0 | 0 | 0 | 23,673 | 50,695 |
| 5/26/08 | 17 | 9 | 1 | 4 | 33,405 | 56,210 |
| 5/27/08 | 23 | 17 | 18 | 18 | 42,016 | 75,717 |
| 5/28/08 | 17 | 5 | 10 | 8 | 34,534 | 62,142 |
| 5/29/08 | 13 | 9 | 13 | 11 | 37,345 | 66,386 |
| 5/30/08 | 11 | 2 | 0 | 1 | 32,113 | 51,763 |
| 5/31/08 | 10 | 0 | 1 | 1 | 25,642 | 51,723 |
| 6/1/08 | 5 | 0 | 0 | 0 | 27,800 | 50,504 |
| 6/2/08 | 14 | 0 | 0 | 0 | 33,815 | 50,888 |
| 6/3/08 | 17 | 7 | 4 | 6 | 35,627 | 58,159 |
| 6/4/08 | 19 | 2 | 1 | 2 | 33,079 | 53,077 |
| 6/5/08 | 15 | 1 | 0 | 1 | 39,623 | 51,499 |
| 6/6/08 | 12 | 0 | 0 | 0 | 31,800 | 50,794 |
| 6/7/08 | 0 | 0 | 0 | 0 | 26,171 | 50,260 |
| 6/8/08 | 5 | 0 | 0 | 0 | 28,951 | 50,506 |
| 6/9/08 | 6 | 0 | 0 | 0 | 32,158 | 50,558 |
| 6/10/08 | 16 | 1 | 0 | 1 | 31,340 | 51,492 |
| 6/11/08 | 25 | 1 | 0 | 1 | 31,669 | 51,954 |
| 6/12/08 | 12 | 0 | 0 | 0 | 35,583 | 50,817 |
| 6/13/08 | 11 | 0 | 0 | 0 | 28,659 | 50,780 |
| 6/14/08 | 4 | 0 | 0 | 0 | 25,043 | 50,463 |
| 6/15/08 | 8 | 0 | 0 | 0 | 27,935 | 50,618 |
| 6/16/08 | 11 | 2 | 3 | 3 | 31,236 | 54,907 |
| 6/17/08 | 7 | 0 | 0 | 0 | 30,561 | 50,564 |
| 6/18/08 | 7 | 0 | 0 | 0 | 31,245 | 50,602 |
| 6/19/08 | 8 | 0 | 0 | 0 | 30,609 | 50,643 |
| 6/20/08 | 0 | 0 | 0 | 0 | 29,162 | 50,260 |
| 6/21/08 | 2 | 0 | 0 | 0 | 25,634 | 50,360 |
| 6/22/08 | 7 | 0 | 0 | 0 | 28,344 | 50,608 |
| 6/23/08 | 3 | 0 | 0 | 0 | 30,759 | 50,402 |
| 6/24/08 | 0 | 0 | 0 | 0 | 31,478 | 50,260 |
| 6/25/08 | 0 | 0 | 0 | 0 | 36,632 | 50,260 |
| 6/26/08 | 0 | 0 | 0 | 0 | 35,467 | 50,260 |
| 6/27/08 | 2 | 0 | 0 | 0 | 28,096 | 50,357 |
| 6/28/08 | 2 | 0 | 3 | 2 | 28,232 | 53,396 |
| 6/29/08 | 1 | 0 | 0 | 0 | 29,757 | 50,313 |
| 6/30/08 | 4 | 0 | 0 | 0 | 32,405 | 50,459 |
| Totals | 10,748 | 8,568 | 8,912 | 8,860 | 28,428,203 | 30,985,087 |

* Volumes include interruptible and transportation volumes except for transportation volumes that are not located behind MERC citygates.

** Design Model numbers are used to calculate firm volumes only

MERC

# MINNESOTA ENERGY RESOURCES - PNG

Attachment 14

**Customer Counts by PGAC Class - July 1, 2007 through June 30, 2008**
**NNG**

| Rate Class | Tariff Rate Designation | Jul-07 Average Customers | Aug-07 Average Customers | Sep-07 Average Customers | Oct-07 Average Customers | Nov-07 Average Customers | Dec-07 Average Customers | Jan-08 Average Customers | Feb-08 Average Customers | Mar-08 Average Customers | Apr-08 Average Customers | May-08 Average Customers | Jun-08 Average Customers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Residential w/ Heat | MN001/007/008 | 141,319 | 140,679 | 139,865 | 140,176 | 140,954 | 141,602 | 142,472 | 142,307 | 142,678 | 143,265 | 143,033 | 141,852 |
| Residential w/o Heat | MN002/009010 | 1,044 | 1,031 | 1,000 | 1,073 | 984 | 977 | 1,006 | 996 | 998 | 1,007 | 1,011 | 974 |
| Commercial-SV | MN050/053/054/ 070/076/078 | 6,038 | 6,019 | 6,002 | 5,997 | 6,013 | 6,140 | 6,140 | 6,160 | 6,158 | 6,086 | 6,137 | 6,058 |
| Commercial-LV | MN056/060/063/ 064/065/071/077 | 7,652 | 7,640 | 7,604 | 7,737 | 7,761 | 7,847 | 7,871 | 7,906 | 7,893 | 7,951 | 7,749 | 7,856 |
| SV-Joint | MN104 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SV-Interruptible | MN125/128/135 | 318 | 320 | 366 | 318 | 368 | 313 | 358 | 373 | 372 | 362 | 317 | 364 |
| LV-Interruptible | MN200/201/207/ | 32 | 6 | 40 | 35 | 40 | 38 | 43 | 40 | 40 | 40 | 38 | 39 |
| Transport | MN590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN509/514/589 | 0 | 0 | 0 | 0 | 907 | 0 | 5 | 4 | 3 | 5 | 2 | 0 |
| Transport | MN518 | 0 | 0 | 0 | 0 | 45,986 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN502/507/82L | 3 | 6 | 0 | 3 | 1 | 3 | 9 | 3 | 6 | 3 | 3 | 0 |
| Transport | MN500/574/81L | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN501/506/522/ 523/80L/83L | 45 | 6 | 15 | 43 | 26 | 40 | 86 | 42 | 40 | 37 | 60 | 5 |
| Transport | MN/504/505/539 | 31 | 24 | 23 | 31 | 29 | 33 | 100 | 31 | 29 | 33 | 25 | 3 |
| Transport | MN/512 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN/515 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN/517 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN/519 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN/535 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 156,482 | 155,731 | 154,915 | 155,413 | 203,074 | 156,993 | 158,090 | 157,862 | 158,217 | 158,789 | 158,375 | 157,151 |