

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

November 1, 2010

VIA ELECTRONIC FILING

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

| 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.

Please note that 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 the Company'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,

/s/ Michael J. Ahern

Michael J. Ahern

cc: Service List

November 1, 2010

To: Service List

RE: Minnesota Energy Resources Corporation-PNG Petition for Approval of Change in Demand Entitlement

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 entitlement.

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

Gregory J. Walters Minnesota Energy Resources Corporation 3460 Technology Drive NW Rochester, MN 55901 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

| | Chair | |
|---|--------------|---|
| | Commissioner | |
|) | | |
|) | | |
|) | Docket No | |
|) | | |
|) | | |
| |)))) | Commissioner Commissioner Commissioner Commissioner |

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-PNG's 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, 2010.

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-PNG's 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, 2010.

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 the Company's previous two rate cases.

3. General Filing Information

Name, Address, and Telephone Number of the Utility Α.

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 1, 2010

Proposed Effective Date: November 1, 2010

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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. Under Minn. R. 7829.1400, initial comments are due within 30 days of filing, with reply comments due 10 days thereafter.

E. Utility Employee Responsible for the Filing

Gregory J. Walters 3460 Technology Drive NW Rochester, MN 55901 (507) 529-5100

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

DATED: November 1, 2010 Respectfully Submitted,

DORSEY & WHITNEY LLP

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

Attorney for Minnesota Energy Resources Corporation

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

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| 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 Entitlement for its Northern Natural Gas Transmission System |)))) | Docket No |

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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-PNG's 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, 2010.

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 2010-2011 heating season for its Viking customers in a separate docket, and requests approval of a demand entitlement change on the GLGT system in a separate docket

II. DISCUSSION

A. MERC's PNG-NNG Design Day Requirements

MERC's 2010-2011 NNG design day requirements decreased 8,762 Mcf (or approximately 4.31 percent) from 203,360 Mcf to 194,598 Mcf.

Table 1: MERC's Proposed NNG Reserve Margins For the 2010-2011 Heating Season PNG/NMU

| | Reserve Margin | Reserve Margin | |
|-------------|-----------------------|-----------------------|--------|
| | 2010-2011 | 2009-2010 | |
| | Heating Season | Heating Season | Change |
| NNG Zone EF | 19.92% | 11.68% | 8.24% |

As shown in Table 1, MERC's proposed system wide reserve margin, Zone EF for the 2010-2011 heating season is positive.

For the Demand Entitlement filing effective November 1, 2010, the total Design Day requirement for Northern Natural Gas (NNG), which includes PNG and NMU is 218,213 Dth as calculated in Attachment 5 and Attachment 7 under the NNG Entitlement Allocation.

For the Demand Entitlement filing effective November 1, 2010, the total Design
Day capacity on Northern Natural Gas (NNG), which includes PNG and NMU is 261,675
Dth as calculated in Attachment 5 and Attachment 7 under the NNG Entitlement
Allocation. The difference between the total Design Day requirement and total Design
Day capacity results in a 19.92% positive reserve margin.

Demand Entitlement increased due to 7,000 Dth that historically was allocated to the NMU and PNG-VGT Demand Entitlements, but has been allocated to PNG-NNG and

NMU in this filing. This capacity was rarely used by PNG-VGT, and the decision was made to allocate the demand cost to the customer base that benefits from the capacity which is PNG-NNG and NMU-NNG customers. MERC also changed the allocation process by allocating all NNG and LS Power capacity to PNG-NNG and NMU-NNG customers based upon the forecasted Design Day as calculated in Attachment 5. The change in allocation process was made to address the Office of Energy Security's (OES) concern of NMU-NNG customers having a negative reserve margin.

B. Forecast Methodology for MERC Demand Entitlement Nov. 1, 2010

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 <u>four pipelines</u>:

- 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 PGA):

- 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 seven weather stations:

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

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

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

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

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 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 followed an approach generally consistent with the one used last year that would:

- Make the best use of the best available data; and
- 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.

The Peak Day Process consisted of:

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

I. The **<u>Data Preparation</u>** Steps consisted of:

- Identify the coldest Adjusted Heating Degree Day (AHDD65) in the last 20 years for each weather station.
- Determine the most recent three 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 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 (AHDD65) in the last 20 years. This 1-in-20 approach is consistent with
 prior years. The results are provided in the following table:

| | | Avg. | <u>Avg.</u> | | |
|----------------|-------------|-------------|-------------|--------------|--------|
| Station | Date | Temp | Wind | HDD65 | AHDD65 |
| 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 |
| Worthington | 1/18/1996 | -8 | 32 | 73 | 96 |

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 <u>daily</u> 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, resulting in billing cycle estimates and reversals), and other potential errors into their volumes.

Similar to the process used the prior year, the Team generated regressions of the daily throughput data available less the known daily meter readings for non-firm customers and adjusted those regressions for the estimated peak day impact of the other non-firm customers who do not have daily readings. This approach was used because it 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):
 - Gather the net daily metered volumes and weather station data including AHDD65².
 - 2. If more than one weather station is represented in a given demand area, weight each weather station's AHDD65 by the total December through February metered volumes attributable to that weather station.
 - 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

² Temperature and weather data was obtained from Weather Bank/DTN via TherMaxx then converted to HDD65 and AHDD65 in an Excel spreadsheet by MERC – Gas Supply. Temperature and wind data is 24-hour average based on the 9am to 9am gas day.

- 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 ordinary least squares linear regressions for the 3-year time frame using the AHDD65 weather variable and the significant indicator variables.
- 5. Summarize the Baseload and Use/AHDD65 from each regression.
- 6. Calculate a point estimate from each regression based on the baseload value plus the Use/AHDD65 coefficient times the coldest AHDD65 in 20 years (volume weighted if using more than one weather station in a single Demand Area).

III. Volume Risk Adjustments

Volume risk adjustments were incorporated into the forecast to provide a confidence level that the daily metered load under design conditions would not exceed the daily metered regression estimate. An appropriate volume risk adjustment was determined for each regression group by multiplying the standard error of each regression analysis (sigma) by a factor needed to attain a desired confidence level. The desired confidence level chosen was 97.5%.

IV. 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 records³. 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, resulting in billing cycle estimates and reversals), and other potential errors into their volumes.

A database of volumes billed for all customers from the prior winter was obtained. The database contained detail by customer class⁴, 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 prior winter 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 1st Revised 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 the "joint interruptible" customers from January 2009 through March 2010 that showed the volume that each customer has selected to receive as firm service from MERC each month. Based on direction from MERC Gas Supply, the Small Volume Joint Firm / Interruptible customers who were relying on MERC to provide peak day firm supply were identified and their the daily firm capacity volumes were summed by month for each demand area. The total volumes for January 2010 were then added back to the adjusted regression results.

C. Apply Sales Forecast Growth Rates

The throughput volumes used in the data regressions were from December 2007 to February 2010 and needed to be adjusted to properly forecast 2011. The sales forecast "MERC Fcst 201004", 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.

Demand Area / (Service Area / Pipeline) Regression Notes

A. Interruptible, Transportation and Joint Interruptible

NMU-GLGT

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

NMU-VGT

Note: Lamb Weston (RDO) was NOT included in the regression analysis, and therefore, was not removed 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 (End Users) =

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

B. Daily Firm Capacity

PNG-VGT

- DETROIT LAKES MIDDLE SCHOOL
- ROSSMAN SCHOOL
- BEST WESTERN

PNG-GLGT

- AMERIPRIDE/WPS SERVICES INC
- ELDERCARE
- NORTHLAND APTS
- NW TECH COLLEGE BEMIDJI
- BEM ISD #31-JW SMITH ELEM
- BEM ISD #31-CENTRAL ELEM

PNG-NNG

- HENDRICKS HOSPITAL
- GLASSTITE INC
- SHANNON GLEN CONDO III
- SHANNON GLEN CONDO I
- SHANNON GLEN CONDO II
- SHANNON GLEN CONDO IV

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 are 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 the 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-PNG's 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 Attachment 3, MERC-PNG-NNG proposes an increase of 2,563 Mcf/day in total heating season. The Company proposes changes to its portfolio of capacity services identified below in Table 4.

Table 4

| Capacity | Propose Change |
|----------------------|-----------------------|
| Entitlement | Increase / (Decrease) |
| TF12B & TF12V | 7,361 Mcf/Day |
| TF5 | (834) Mcf/Day |
| TFX12 | (2,397) Mcf/Day |
| TFX5 | (1,143) Mcf/Day |
| LS Power | (424) Mcf/Day |
| Total Overall Change | 2,563 Mcf/Day |

MERC contracted for capacity on Bison Pipeline for 50,000 Dth/day with a projected in-service date of December 15, 2010 at Northern Border Pipeline (NBPL). The PNG-NNG allocated share of this capacity is 44,589 Dth/day. This capacity does not add any incremental capacity but is utilized to deliver Rockies supply to PNG-NNG and NMU-NNG customers at Northern Border Pipeline (NBPL) interconnects with NNG.

2. Other Demand Entitlement Changes

As shown in the Attachment 10, MERC-PNG-NNG proposes a decrease in TFX Apr and TFX Oct and an increase of Firm Deferred Delivery (storage) in other pipeline entitlements that are not included in peak day deliverability.

D. Financial Units and Premiums

- MERC entered into New York Mercantile Exchange (NYMEX) financial Call Options for the upcoming 2010/2011 winter (November through March). Please see Attachment 8.
- Total premium costs to enter into the financial Call Options on behalf of MERC's firm customers amounted to \$1,876,399 for the 2010/2011 winter. Please see Attachment 8.
- iii. MERC entered into 472 contracts (10,000/contract) or 4,720,000. Total premium per contract is approximately \$0.3975. 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 entered into 204 futures contracts (10,000/contract) or 2,040,000.
- vii. 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 futures contracts), 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 2010-2011 Winter Portfolio Plan - Minnesota Energy Resources

Corporation for NNG gas supply purchases for the Hedging Plan is in Attachment 9, page

2.

F. Price Volatility

MERC hedging strategy as described in section 2.(D.)(vii.) provides the opportunity to ensure MERC customers are seventy percent (70%) hedged assuming normal winter volumes. The 70% hedged is accomplished by 40% of normal winter volumes hedged by a fixed price, which is comprised of storage and futures contracts. MERC is projecting the weighted average cost of gas (WACOG) for futures contracts of natural gas to be approximately \$4.9275. Please see Attachment 15, page 1 of 3. MERC is projecting the NNG Storage WACOG for PNG-NNG to be approximately \$4.0923. This is an estimate based upon the purchases in October but since this is report is filed before the accounting is closed for October, this estimate may change. Please see Attachment 15, page 2 of 3. The remaining 30% of the 70% is hedged by financial call options. MERC purchased call options at an average strike price of \$5.01, which means if NYMEX contract(s) settle above that price, the options are exercised and MERC's customers gas cost is capped at the average strike price. Please see Attachment 15, page 3 of 3. Since financial options are paper only MERC purchases physical index supply to back the financial call options. MERC projects the gas costs to be approximately \$4.35 for 70% of normal winter volumes assuming that the NYMEX prices are above the average \$5.01 strike price plus the physical index basis spread. If the NYMEX prices are below the average \$5.01 strike price, the average natural gas cost for 70% of the normal winter volumes will be lower. The remaining 30% of normal winter volumes are purchased at index or market prices. All numbers reflected are natural gas costs only and do not include any transportation, storage, hedge premium or margin costs.

G. 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, 2010. Rate impacts associated with this change can be found on Attachment 4, pages 1 through 3, and on page 1 of Attachment 11. MERC has also calculated the rate impact of moving the cost recovery of FDD Storage contracts from the demand cost recovery portion of the monthly PGA to the commodity cost recovery portion of the monthly PGA. Attachment 4, pages 4 through 6, and Attachment 11, page 2, illustrate the rate impact created by this shift in cost recovery.

II. CONCLUSION

Based upon the foregoing, MERC respectfully requests the Minnesota Public

Utilities Commission grant the demand changes requested herein effective November 1,

2010. If any further information, clarification, or substantiation is required to support this filing please advise.

DATED: November 1, 2010

Respectfully Submitted,

DORSEY & WHITNEY LLP

By /s/ Michael J. Ahern
Michael J. Ahern
Suite 1500, 50 South Sixth Street
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Telephone: (612) 340-2600

Attorney for Minnesota Energy Resources Corporation

AFFIDAVIT OF SERVICE

| STATE OF MINNESOTA |) |
|--------------------|------|
| |) ss |
| COUNTY OF HENNEPIN |) |

Sarah J. Sorenson, being first duly sworn on oath, deposes and states that on the 1st day of November, 2010, the Petition of Minnesota Energy Resources Corporation was electronically filed with the Minnesota Public Utilities Commission and the Minnesota Department of Commerce. A copy of the filing 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.

/s/ Sarah J. Sorenson

Subscribed and sworn to before me this 1st day of November, 2010.

/s/ Paula R. Bjorkman

Notary Public, State of Minnesota

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

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

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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 3460 Technology Drive NW Rochester, MN 55901

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

MERC-PNG

Demand Entitlement Schedules - NNG

DESIGN-DAY DEMAND SUMMARY NOVEMBER 1, 2010 NNG

| Design Day Requirement | 194,598 |
|---|------------|
| Total Peak Day Entitlement | 233,627 |
| Firm Peak Day Actual Sendout -Non Coincidental (Jan. 4) | 151,937 |
| Firm Annual Throughput - Minnesota | 19,922,894 |
| No. of Firm Customers | 158,298 |
| Department Load Factor Calculation | 35.92% |

119,468

MINNESOTA ENERGY RESOURCES - PNG

NNG MINNESOTA DESIGN DAY REQUIREMENTS NOVEMBER 1, 2010

NNG

| Pipeline | Nov09-Mar 10 Avg. | Zone Total | 1/20 | Regressi | on Factors | Regression | Regression | 1/20 Requirements | Nov09-Mar 10 Avg. | |
|---------------------|----------------------|--------------------|---------------|-----------|------------|---------------------|-----------------------|----------------------------|----------------------|--------------------|
| Group | Customer Count | Customer Count | Design DDD | Intercept | Slope | Total Footnote 1 | Adjustment Footnote 2 | Regression Load Footnote 3 | Customer Growth | Total * |
| | | | | | PEA | K | | | | |
| PNG Total | 158,298 158,298 | 158,298 158,298 | 99 | 26,150 | 2,217 | 259,378 | 64,651 | 194,727 | -0.10% | 194,598 194,598 |
| | OFF PEAK | | | | | | | | | |
| PNG | 158,298 | 158,298 | 55 | 26,150 | 2,217 | 161,224 | 41,677 | 119,547 | -0.10% | 119,468 |

^{*} Adjusted for customer growth

158,298

Total

Footnote 1: Regression Total is based on total through-put data.

158,298

Footnote 2: Regression Adjustment substracts out Interruptible, Transportation and Joint Interruptible volumes and adds adjustment to achieve 97.5% confidence level that actual demand under design conditions will not exceed estimate.

Footnote 3: Total equals Regression Total minus Regression Adjustment.

^{*55} is the 30 yr unadjusted heating degree days from NOAA, not adjusted for windspeed.

DESIGN-DAY DEMAND PER CUSTOMER - GS NOVEMBER 1, 2010

NNG

| Heating <u>Season</u> | No. of Firm <u>Customers</u> | Design Day <u>Requirements</u> | MMBtus /Customer <u>/Day</u> |
|--------------------------|------------------------------------|--------------------------------------|------------------------------------|
| 10/11 | 158,298 | 194,598 | 1.23 |
| 09/10 | 157,670 | 203,360 | 1.29 |
| 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 |

SUMMER/WINTER USAGE - Mcf PROJECTED 12 MONTHS ENDING JUNE 2010 NNG

| <u>Class</u> | Summer <u>Apr-Oct</u> | Winter <u>Nov-Mar</u> | <u>Total</u> |
|--------------|--------------------------|--------------------------|--------------|
| GS | 5,507,757 | 14,415,137 | 19,922,894 |
| SVI | 899,643 | 1,668,434 | 2,568,077 |
| SVJ | 0 | 0 | 0 |
| LVI | 298,069 | 420,332 | 718,401 |
| LVJ | 0 | 0 | 0 |
| SLV | <u>0</u> | <u>0</u> | 0 |
| Total | <u>6,705,469</u> | <u>16,503,903</u> | 23,209,372 |

ENTITLEMENT LEVELS PROPOSED TO BE EFFECTIVE NOVEMBER 1, 2010

| Type of Capacity or <u>Entitlement</u> | Current Amount Mcf or <u>MMBtu</u> | Proposed Change Mcf or <u>MMBtu</u> | Proposed Amount Mcf or <u>MMBtu</u> |
|--|--|---|---|
| TF-12 Base & Variable TF5 TFX - 12 TFX - 5 TFX- (Apr) Offpeak* TFX- (Oct) Offpeak* Bison NBPL Windom LSP Peaking Service Heating Season Total Non-Heating Season Total | 59,804 29,619 31,199 81,567 2,000 2,000 0 0 2,500 26,375 231,064 95,503 | 7,361 (834) (2,397) (1,143) (216) (216) 44,589 44,589 0 (424) 2,563 4,748 | 67,165 28,785 28,802 80,424 1,784 1,784 44,589 44,589 2,500 25,951 233,627 100,251 |
| Heating Season Forecasted Design Day-Adjusted | 203,360 | (8,762) | 194,598 |
| Non-Heating Season Forecasted Design Day | 126,892 | (7,424) | 119,468 |
| Heating Season Capacity Surplus/Shortage | 27,704 | 11,325 | 39,029 |
| Non-Heating Season Capacity Surplus/Shortage | (31,389) | 12,172 | (19,217) |

^{*}Not included in Heating Season Total entitlement

MINNESOTA ENERGY RESOURCES - PNG

RATE IMPACT OF THE PROPOSED DEMAND CHANGE **NOVEMBER 1, 2010**

| Last Base | 1 0 04 | | | | | | | |
|------------------|---|---|--|--|---|---|---|--|
| | Last | Last | Most | Current | :::::::::::::::::::::::::::::::::::::: | sed Change | 9 | |
| Cost of | Demand | Demand | Recent | Proposal | Change | Change | Change | Change |
| Gas | Change | Change | PGA | | from | from | from | from |
| G007, G011/ | G011- | G011- | | Effective | Last | Last | Last | Last |
| MR08-836* | M-08- | M-09- | Oct. 2010 | Nov.1,2010 | Rate | Demand | PGA | PGA |
| 8-Oct | Oct .08 | Oct. 09 | | | Case | Change | | \$ |
| • | | | | | | | | |
| | 125 | | Mcf | | | | | |
| \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | (\$4.6416) | \$0.3199 | 3.34% | \$0.1312 |
| \$1.1197 | \$1.0903 | \$1.0883 | \$1.0362 | \$1.6626 | \$0.5429 | \$0.5743 | 60.45% | \$0.6264 |
| \$1.6263 | \$1.6263 | \$1.6263 | \$1.7746 | \$1.7746 | \$0.1483 | \$0.1483 | 0.00% | \$0.0000 |
| \$11.4474 | \$8.6958 | \$6.4545 | \$6.7394 | \$7.4970 | (\$3.9504) | \$1.0425 | 11.24% | \$0.7576 |
| \$1,429.40 | \$1,085.82 | \$805.95 | \$841.53 | \$936.13 | (\$493.27) | \$130.18 | 11.24% | \$94.60 |
| ge annual bills: | | | | | | | | \$16.39 |
| annual bills: | | | | | | | | \$78.22 |
| | Gas G007, G011/ MR08-836* 8-Oct \$8.7014 \$1.1197 \$1.6263 \$11.4474 | Gas Change G007, G011/ G011- MR08-836* M-08- Oct .08 125 \$8.7014 \$5.9792 \$1.1197 \$1.0903 \$1.6263 \$1.6263 \$1.6263 \$1.429.40 \$1,085.82 \$ ge annual bills: | Gas Change Change G007, G011/ G011- G011- MR08-836* M-08- M-09- 8-Oct Oct.08 Oct.09 125 \$8.7014 \$5.9792 \$3.7399 \$1.1197 \$1.0903 \$1.0883 \$1.6263 \$1.6263 \$1.6263 \$11.4474 \$8.6958 \$6.4545 \$1,429.40 \$1,085.82 \$805.95 ge annual bills: | Gas G007, G011/ MR08-836* Change G011- M-08- Oct .08 Change G011- M-09- Oct .2010 PGA G011- M-09- Oct .2010 125 Mcf \$8.7014 \$5.9792 \$3.7399 \$3.9286 \$1.1197 \$1.0903 \$1.0883 \$1.0362 \$1.6263 \$1.6263 \$1.6263 \$1.7746 \$11.4474 \$8.6958 \$6.4545 \$6.7394 \$1,429.40 \$1,085.82 \$805.95 \$841.53 ge annual bills: | Gas G007, G011/ MR08-836* Change M-08- Oct. 08 Change G011- M-09- Oct. 2010 Effective Nov.1,2010 *** *** *** *** *** *** *** *** *** ** | Gas G007, G011/ MR08-836* Change G011- M-08- Oct .08 Change G011- Oct .09 PGA Dot. 2010 Effective Nov.1,2010 Last Rate Case 125 Mcf \$8.7014 \$5.9792 \$3.7399 \$3.9286 \$4.0598 (\$4.6416) \$1.1197 \$1.0903 \$1.0883 \$1.0362 \$1.6266 \$0.5429 \$1.6263 \$1.6263 \$1.7746 \$1.7746 \$0.1483 \$11.4474 \$8.6958 \$6.4545 \$6.7394 \$7.4970 (\$3.9504) \$1,429.40 \$1,085.82 \$805.95 \$841.53 \$936.13 (\$493.27) ge annual bills: | Gas Change G007, G011/ MR08-836* Change M-08- Oct. 09 PGA Oct. 2010 Effective Nov.1,2010 from Last Rate Case Last Demand Change 125 Mcf \$8.7014 \$5.9792 \$3.7399 \$3.9286 \$4.0598 (\$4.6416) \$0.3199 \$1.1197 \$1.0903 \$1.0883 \$1.0362 \$1.6626 \$0.5429 \$0.5743 \$1.6263 \$1.6263 \$1.6263 \$1.7746 \$1.7746 \$0.1483 \$0.1483 \$11.4474 \$8.6958 \$6.4545 \$6.7394 \$7.4970 (\$3.9504) \$1.0425 \$1,429.40 \$1,085.82 \$805.95 \$841.53 \$936.13 (\$493.27) \$130.18 ge annual bills: | Gas Change G007, G011/ MR08-836* Change M-08- Oct. 09 PGA Oct. 2010 Effective Nov.1,2010 from Last Rate Case from Demand Case from Demand Case 125 Mcf \$8.7014 \$5.9792 \$3.7399 \$3.9286 \$4.0598 (\$4.6416) \$0.3199 3.34% \$1.1197 \$1.0903 \$1.0883 \$1.0362 \$1.6626 \$0.5429 \$0.5743 60.45% \$1.6263 \$1.6263 \$1.6263 \$1.7746 \$1.7746 \$0.1483 \$0.1483 0.00% \$11.4474 \$8.6958 \$6.4545 \$6.7394 \$7.4970 (\$3.9504) \$1.0425 \$1.24% \$1,229.40 \$1,085.82 \$805.95 \$841.53 \$936.13 (\$493.27) \$130.18 \$1.24% |

| 2) Small Vol. Interruptible: Avg. Annual Use: | | 4,080 | | Mcf | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|---------------|------------|-------|----------|
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | (\$4.6416) | \$0.3199 | 3.34% | \$0.1312 |
| Demand Cost | \$0.0000 | | | | | | | | |
| Commodity Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | (\$0.0753) | (\$0.0753) | 0.00% | \$0.0000 |
| Total Cost of Gas | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.2279 | (\$4.7169) | \$0.2446 | 2.57% | \$0.1312 |
| Avg Annual Cost | \$40,572.00 | \$29,466.19 | \$20,330.47 | \$20,793.11 | \$21,328.46 | (\$19,243.54) | \$997.99 | 2.57% | \$535.35 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | | \$535.35 |
| Effect of proposed demand change on average annual bills: | | | | | | | | | \$0.00 |

| 3) Large Vol. Interruptible: Avg. Annual Use: | | 19,053 | | Mcf | | | | | |
|--|--------------|--------------|-------------|-------------|-------------|---------------|------------|-------|------------|
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | (\$4.6416) | \$0.3199 | 3.34% | \$0.1312 |
| Demand Cost | | | | | | | | | |
| Commodity Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | (\$0.0344) | (\$0.0344) | 0.00% | \$0.0000 |
| Total Cost of Gas | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.3846 | (\$4.6760) | \$0.2855 | 3.09% | \$0.1312 |
| Avg Annual Cost | \$172,633.79 | \$120,767.06 | \$78,101.14 | \$81,041.05 | \$83,541.25 | (\$89,092.54) | \$5,440.11 | 3.09% | \$2,500.20 |
| Effect of proposed commodity change on average annual bills: \$2,5 | | | | | | | | | \$2,500.20 |
| Effect of proposed demand change on average annual bills: \$0.0 | | | | | | | | | \$0.00 |

| 4) Small Vol. Firm: Avg. Annual Use: | | 4,080 | | Mcf | | | | | |
|---|-------------------|-------------|-------------|-------------|-------------|---------------|------------|---------|------------|
| | | 25 | | Mcf | | | | | |
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | (\$4.6416) | \$0.3199 | 3.34% | \$0.1312 |
| Demand Cost | \$13.4177 | \$12.0195 | \$10.3925 | \$9.3592 | \$10.7565 | (\$2.6612) | \$0.3640 | 14.93% | \$1.3973 |
| Commodity Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | (\$0.0753) | (\$0.0753) | 0.00% | \$0.0000 |
| Demand Margin | \$2.0724 | \$2.0724 | \$2.0724 | \$2.0724 | \$1.8000 | (\$0.2724) | (\$0.2724) | -13.14% | (\$0.2724) |
| Total Cost of Gas | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.2279 | (\$4.7169) | \$0.2446 | 2.57% | \$0.1312 |
| Total Demand Cost | \$15.4901 | \$14.0919 | \$12.4649 | \$11.4316 | \$12.5565 | (\$2.9336) | \$0.0916 | 9.84% | \$1.1249 |
| Avg Annual Cost | \$40,959.25 | \$29,818.48 | \$20,642.09 | \$21,078.90 | \$21,642.37 | (\$19,316.88) | \$1,000.28 | 2.67% | \$563.47 |
| Effect of proposed commodity change on average annual bills: \$53 | | | | | | | | | \$535.35 |
| Effect of proposed demand change on aver | age annual bills: | | | | | | | | \$34.93 |

| 5) Large Vol. Firm: Avg. Annual Use: | | 14,841 | | Mcf | | | | | |
|---|--------------|-------------|-------------|-------------|-------------|---------------|------------|---------|------------|
| | | 75 | | Mcf | | | | | |
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | (\$4.6416) | \$0.3199 | 3.34% | \$0.1312 |
| Demand Cost | \$13.4177 | \$12.0195 | \$10.3925 | \$9.3592 | \$10.7565 | (\$2.6612) | \$0.3640 | 14.93% | \$1.3973 |
| Commodity Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | (\$0.0344) | (\$0.0344) | 0.00% | \$0.0000 |
| Demand Margin | \$0.1658 | \$1.6579 | \$1.6579 | \$1.6579 | \$1.4000 | \$1.2342 | (\$0.2579) | -15.56% | (\$0.2579) |
| Total Cost of Gas | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.3846 | (\$4.6760) | \$0.2855 | 3.09% | \$0.1312 |
| Total Demand Cost | \$13.5835 | \$13.6774 | \$12.0504 | \$11.0171 | \$12.1565 | (\$1.4270) | \$0.1061 | 10.34% | \$1.1394 |
| Avg Annual Cost | \$135,487.13 | \$95,094.00 | \$61,738.52 | \$63,950.99 | \$65,983.91 | (\$19,112.36) | \$4,245.38 | 3.18% | \$2,032.92 |
| Effect of proposed commodity change on average annual bills: \$1,94 | | | | | | | | | \$1,947.46 |
| Effect of proposed demand change on average annual bills: \$104.80 | | | | | | | | | |

Note: Average Annual Average based on PNG Annual Automatic Adjustment Report in Docket No. E,G999/AA-09-896
*Implemented with Interim rates
**Interim rates implented on 10/1/08

RATE IMPACT OF THE PROPOSED DEMAND CHANGE

NOVEMBER 1, 2010 NNG

| IV. NORTHERN | NATURAL GAS COMPAN | | | | | | 01-Nov-10 | |
|---------------------------------------|------------------------------|---------------|-----------------------|----------------|------------------|-----------------|--------------|-------------------|
| | | Т | ariff-Summer(7) Ta | riff-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 | |
| | | | φ5.0630 | | | · | | |
| | 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 | \$7.6000 | \$6.4818 | \$0.0000 | \$6.4818 | |
| | Gas Cost | | ψο.οσσσ | ψ1.0000 | ψο. 10 10 | ψ0.0000 | \$4.0489 | |
| | | | | | | | | |
| V. ANNUAL SA | LES RATE CASE 2008 T | OTAL | | | | | 213,137,630 | |
| VI. PNG'S CURE | RENT COST OF GAS EFFE | CTIVE: | | | | 01-Nov-10 | | |
| · · · · · · · · · · · · · · · · · · · | (2.11. 000. 0. 0,10 2.112 | | | | | 01110110 | | Rate/CCF |
| | | | | | | | | Kale/CCF |
| | | Contract #(s) | | Months | | | | |
| A. GS | TF12B (Max Rate) | 112495 | 29,675 | 12 | \$7.5776 | = | \$2,698,383 | \$0.01396 |
| | TF12V (Max Rate) | 112495 | 32,290 | 12 | \$9.0926 | = | \$3,523,201 | \$0.01822 |
| | TF5 (Max Rate) | 112495 | 28,785 | 5 | \$15.1530 | = | \$2,180,896 | \$0.01128 |
| | | | · · | | | | | |
| | TF12B (Discount-Winter) | 112495 | 5,200 | 12 | \$6.4818 | = | \$404,464 | \$0.00209 |
| | TF5 (Discount-Winter) | 112495 | 0 | 5 | \$7.6000 | = | \$0 | \$0.00000 |
| | TFX5 (Discount) | 112561 | 5,351 | 5 | \$4.5600 | = | \$122,003 | \$0.00063 |
| | TFX12 (Max Rate) | 112486 | 9,651 | 12 | \$9.6288 | = | \$1,115,131 | \$0.00577 |
| | | | · · | | | | | |
| | TFX Apr (Max Rate) | 112486 | 1,784 | 1 | \$5.6830 | = | \$10,138 | \$0.00005 |
| | TFX Oct (Max Rate) | 112486 | 1,784 | 1 | \$5.6830 | = | \$10,138 | \$0.00005 |
| | TFX5 (Max Rate) | 112486 | 51,163 | 5 | \$15.1530 | = | \$3,876,365 | \$0.02005 |
| | , | | 0 | | | | | |
| | TFX5 (Discount) | 112486 | | 5 | \$13.8736 | = | \$0 | \$0.00000 |
| | TFX5 (Discount) | 112486 | 1,605 | 5 | \$7.6050 | = | \$61,030 | \$0.00032 |
| | TFX12 (Discount) | 111866 | 1,144 | 12 | \$4.8640 | = | \$66,773 | \$0.00035 |
| | TFX12 (Discount) | 111866 | 7,376 | 12 | \$5.4720 | = | \$484,338 | \$0.00251 |
| | | | | | | | | |
| | TFX12 (Discount) | 111866 | 10,631 | 12 | \$2.2192 | = | \$283,108 | \$0.00146 |
| | TFX5 (Discount) | 111866 | 338 | 5 | \$4.8640 | = | \$8,220 | \$0.00004 |
| | TFX5 (Discount) | 111866 | 2,180 | 5 | \$5.4720 | = | \$59,645 | \$0.00031 |
| | TFX5 (Discount) | 111866 | 19,788 | 5 | \$15.1392 | = | \$1,497,872 | \$0.00775 |
| | , | | · · | | | | | |
| | SMS | 112521 | 20,226 | 12 | \$2.1800 | = | \$529,112 | \$0.00274 |
| | Bison | FT0003 | 44,589 | 10.5 | \$17.4800 | = | \$8,183,865 | \$0.04233 |
| | NBPL | T8673F | 44,589 | 10.5 | \$6.9920 | = | \$3,273,546 | \$0.01693 |
| | | | ,000 | | Ψ0.0020 | | ψο,Ξ. ο,ο .ο | ψυ.υ.υυυ |
| | 100 | | 05.054 | | 0.4.0.400 | | 0000 000 | 00.00475 |
| | LS Power | | 25,951 | 3 | \$4.3463 | = | \$338,369 | \$0.00175 |
| | WINDOM | | 2,500 | 12 | \$0.0000 | = | \$0 | \$0.00000 |
| | | | • | | | | | |
| EDD. | · Ctarage Decemention | 110CE7 | 67.070 | 10 | ¢4 7440 | | ¢4 202 674 | ¢0.00746 |
| FDD | : Storage Reservation | 118657 | 67,273 | 12 | \$1.7140 | = | \$1,383,671 | \$0.00716 |
| | Storage Cycle Volume | 118657 | 775,728 | 5 | \$0.3567 | = | \$1,383,511 | \$0.00716 |
| | Storage Reservation | 118657 | 4,949 | 12 | \$3.3157 | = | \$196,913 | \$0.00102 |
| | Storage Cycle Volume | 118657 | 57,074 | 5 | \$0.6901 | = | \$196,934 | \$0.00102 |
| | | | | | | | | |
| | Storage Reservation | 121292 | 6,187 | 12 | \$1.7140 | = | \$127,254 | \$0.00066 |
| | Storage Cycle Volume | 121292 | 71,342 | 5 | \$0.3567 | = | \$127,238 | \$0.00066 |
| | Total Demand Cost | | | | | | \$32,142,118 | \$0.16626 |
| | | | | | | | +- , , - | * |
| | D-1- O 0000 I ! | 0-1 | | | | | 400 004 000 | |
| | Rate Case 2008 volume i | | | | | | 193,321,000 | |
| | GS-1 Demand Current Co | | | | | | | \$0.16626 |
| | GS-1 Commodity Curren | t Cost of Ga | s/Ccf | | | | | \$0.40598 |
| | Total GS-1 Current Cost | | | | | | | \$0.57224 |
| | Total Go-1 Guiletti Gost | J. Gas/Gul | | | | | | Ψυ.J1224 |
| | | | | | | | | |
| B. GS-1, SVI, LV | I, SJ-1, LJ-1, SLV-Commod | dity | | | | | | |
| | | | Annual | | | | Rate Case | |
| | | | | | Dot- | Commo dit. | | Date |
| | | | Sales | | Rate | Commodity | Sales | Rate |
| | | | (Dth) | | (\$/Dth) | Cost | (therm) | (\$/therm) |
| | CD-1 Commodity | | 21,313,763 | Х | \$4.0489 | \$86,297,295.01 | 213,137,630 | \$0.40489 |
| | 22 1 33111110dity | | 21,010,700 | ^ | ψ 1.0-100 | \$55,E57,E55.01 | 210,107,000 | ψυτυ-τυυ |
| | 0 11 0 11 10 1 | | | | | 000.704 | 040 407 000 | 00.00400 |
| | Call Option Premium | | | | | \$ 232,781 | 213,137,630 | \$0.00109 |
| | GS-1, SVI-1, SJ-1, LJ-1, S | SI V Commo | dity Current Cost | of Gaeltherm | , | \$ 86,530,076 | 213 137 630 | \$0.4050 <u>8</u> |
| | | | • | | • | ψ 00,000,076 | 213,137,630 | \$0.40598 |
| | CURRENT FIRM TRANSF | PORTATION | COST OF GAS (C | CF) | | | | \$0.75776 |
| | | | | | | | | |
| C. JOINT RATE | E DEMAND CALCULATION | I (SEE SCH | EDULE C) | | \$1.07565 | | | \$1.07565 |
| | | | | | | | | |
| II | | | | | | | | |

RATE IMPACT OF THE PROPOSED DEMAND CHANGE NOVEMBER 1, 2010

NNG

| | | | NNG | | | | |
|------------------------------------|------------------|------------------|------------------------|------------------------|----------|----------------------|------------------------|
| COSTS ASSIGNED IN CO | MMODITY | : | | | | | |
| Canadian Contracts | | | <u>Units</u> | Cost/Unit | Day/Mo | Cost | <u>\$/Ccf</u> |
| Cariadian Contracts | | | (b) | COSTOTIL | Day/IVIO | (d) | <u>Ψ/ CCI</u> |
| Upstream: | | | (5) | | | (u) | |
| <u> </u> | | | | | | | |
| | | | | | | | |
| Great Lakes | | | 0 | \$3.458 | 12 | \$0 | \$0.00000 |
| 0. | | | | | | | \$0.00000 |
| | Contract # | | 4.404.007 | CO 04 40 | | CO 044 | #0.00000 |
| FDD Withdrawal FDD Injection | 118657 118657 | | 4,164,007 4,164,007 | \$0.0149 \$0.0149 | | \$62,044 \$62,044 | \$0.00029 \$0.00029 |
| FDD Withdrawal | 121292 | | 356,712 | \$0.0149 | | \$5,315 | \$0.00023 |
| FDD Injection | 121292 | | 300,000 | \$0.0149 | | \$4,470 | \$0.00002 |
| 1 DB Injootion | 121202 | | 000,000 | φοιστίσ | | Ψ1, 17 0 | \$0.00063 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Call Option Premiums | | | 4,720,000 | \$0.3975 | | \$1,876,39 <u>9</u> | \$0.00880 |
| Total Commodity Costs | | | 4,720,000 | Φ0.3975 | | \$2,010,272 | \$0.00943 |
| COSTS ASSIGNED IN JO | INT RATE: | | | | | <u> </u> | φοισσοισ |
| | Units | Contract # | Month | Cost/Unit | | Cost | \$/Ccf |
| TF12B (Max Rate) | 29,675 | 112495 | 12 | \$7.5776 | = | \$2,698,383 | \$0.09030 |
| TF12V (Max Rate) | 32,290 | 112495 | 12 | \$9.0926 | = | \$3,523,201 | \$0.11791 |
| TF5 (Max Rate) | 28,785 | 112495 | 5 | \$15.1530 | = | \$2,180,896 | \$0.07298 |
| TF12B (Discount-Winter) | 5,200 | 112495 | 12 | \$6.4818 | = | \$404,464 | \$0.01354 |
| TF5 (Discount-Winter) | 0 | 112495 | 5 | \$7.6000 | = | \$0 | \$0.00000 |
| TFX5 (Discount) | 5,351 | 112561 | 5 | \$4.5600 | = | \$122,003 | \$0.00408 |
| TFX12 (Max Rate) | 9,651 | 112486 | 12 | \$9.6288 | = | \$1,115,131 | \$0.03732 |
| TFX Apr (Max Rate) | 1,784 | 112486 | 1 | \$5.6830 | = | \$10,138 | \$0.00034 |
| TFX Oct (Max Rate) | 1,784 | 112486 112486 | 1 | \$5.6830 | = | \$10,138 | \$0.00034 \$0.12972 |
| TFX5 (Max Rate) TFX5 (Discount) | 51,163 0 | 112486 | 5 5 | \$15.1530 \$13.8736 | = | \$3,876,365 \$0 | \$0.00000 |
| TFX5 (Discount) | 1,605 | 112486 | 5 | \$7.6050 | = | \$61,030 | \$0.00000 |
| TFX12 (Discount) | 1,144 | 111866 | 12 | \$4.8640 | = | \$66,773 | \$0.00204 |
| TFX12 (Discount) | 7,376 | 111866 | 12 | \$5.4720 | = | \$484,338 | \$0.01621 |
| TFX12 (Discount) | 10,631 | 111866 | 12 | \$2.2192 | = | \$283,108 | \$0.00947 |
| TFX5 (Discount) | 338 | 111866 | 5 | \$4.8640 | = | \$8,220 | \$0.00028 |
| TFX5 (Discount) | 2,180 | 111866 | 5 | \$5.4720 | = | \$59,645 | \$0.00200 |
| TFX5 (Discount) | 19,788 | 111866 | 5 | \$15.1392 | = | \$1,497,872 | \$0.05013 |
| SMS | 20,226 | 112521 | 12 | \$2.1800 | = | \$529,112 | \$0.01771 |
| Bison | 44,589 | FT0003 | 10.5 | \$17.4800 | = | \$8,183,865 | \$0.27388 |
| NBPL | 44,589 | T8673F | 10.5 | \$6.9920 | = | \$3,273,546 | \$0.10955 |
| LS Power | 25,951 | | 2 | \$4 24C2 | _ | ¢220.260 | ¢n n4422 |
| WINDOM | 25,951 | | 3 12 | \$4.3463 \$0.0000 | = | \$338,369 \$0 | \$0.01132 \$0.00000 |
| V V II VID O IVI | ۷,500 | | 12 | ψυ.υυυυ | _ | φυ | ψυ.υυυυ |
| Storage Reservation | 67,273 | 118657 | 12 | \$1.7140 | = | \$1,383,671 | \$0.04631 |
| Storage Cycle Volume | 775,728 | 118657 | 5 | \$0.3567 | = | \$1,383,511 | \$0.04630 |
| Storage Reservation | 4,949 | 118657 | 12 | \$3.3157 | = | \$196,913 | \$0.00659 |
| Storage Cycle Volume | 57,074 | 118657 | 5 | \$0.6901 | = | \$196,934 | \$0.00659 |
| Storage Reservation | 6,187 | 121292 | 12 | \$1.7140 | = | \$127,254 | \$0.00426 |
| Storage Cycle Volume | 71,342 | 121292 | 5 | \$0.3567 | = | \$127,238 | \$0.00426 |
| | | | | TOTAL | | \$32,142,118 | |
| | | | | Annualized I | | 29,881,560 | _ |
| | | | | Demand Co | mponent | <u>\$1.07565</u> | \$1.07565 |

RATE IMPACT OF THE PROPOSED DEMAND CHANGE (Illustrates FDD storage contract costs shifted from Demand costs to Commodity costs)

NOVEMBER 1, 2010 NNG

| All costs in | Last Base | | Last | Most | Current | R | esult of Propo | sed Chang | е |
|-----------------------|---------------------------|-----------------|----------|-----------|------------|------------|----------------|-----------|----------|
| \$/MMBtu | Cost of | Demand | Demand | Recent | Proposal | Change | Change | Change | Change |
| | Gas | Change | Change | PGA | | from | from | from | from |
| | G007,G011/ | G011- | G011- | | Effective | Last | Last | Last | Last |
| | MR08-836* | M-08- | M-09- | Oct. 2010 | Nov.1,2010 | Rate | Demand | PGA | PGA |
| | Oct. 08 | Oct .08 | Oct. 09 | | | Case** | Change | % | \$ |
| | | | | | | | | | |
| 1) General Service: | Avg. Annual Use: | 125 | | Mcf | | | | | |
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | (\$4.4813) | \$0.4802 | 7.42% | \$0.2915 |
| Demand Cost | \$1.1197 | \$1.0903 | \$1.0883 | \$1.0362 | \$1.4860 | \$0.3663 | \$0.3977 | 43.40% | \$0.4498 |
| Commodity Margin | \$1.6263 | \$1.6263 | \$1.6263 | \$1.7746 | \$1.7746 | \$0.1483 | \$0.1483 | 0.00% | \$0.0000 |
| Total Cost of Gas | \$11.4474 | \$8.6958 | \$6.4545 | \$6.7394 | \$7.4806 | (\$3.9668) | \$1.0261 | 11.00% | \$0.7412 |
| Avg Annual Cost | \$1,429.40 | \$1,085.82 | \$805.96 | \$841.53 | \$934.08 | (\$495.32) | \$128.13 | 11.00% | \$92.55 |
| Effect of proposed co | mmodity change on average | e annual bills: | | | | | | | \$36.40 |
| Effect of proposed de | mand change on average | annual bills: | | | | | | | \$56.16 |
| Elicot of proposed de | mana change on average a | ariridai billo. | | | | | | | ψ30. |

| 2) Small Vol. Interruptible | e: Avg. Annual Use: | 4,080 | | Mcf | | | | | |
|--|---------------------|-------------|-------------|-------------|-------------|---------------|------------|------------|------------|
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | (\$4.4813) | \$0.4802 | 7.42% | \$0.2915 |
| Demand Cost | \$0.0000 | | | | | | | | |
| Commodity Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | (\$0.0753) | (\$0.0753) | 0.00% | \$0.0000 |
| Total Cost of Gas | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.3882 | (\$4.5566) | \$0.4049 | 5.72% | \$0.2915 |
| Avg Annual Cost | \$40,572.00 | \$29,466.19 | \$20,330.47 | \$20,793.11 | \$21,982.23 | (\$18,589.77) | \$1,651.76 | 5.72% | \$1,189.12 |
| Effect of proposed commodity change on average annual bills: | | | | | | | | \$1,189.12 | |
| Effect of proposed demand change on average annual bills: | | | | | | | | | \$0.00 |

| 3) Large Vol. Interrupti | ble: Avg. Annual Use: | 19,053 | | Mcf | | | | | |
|---|--------------------------|------------------|-------------|-------------|-------------|---------------|------------|--------|------------|
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | (\$4.4813) | \$0.4802 | 7.42% | \$0.2915 |
| Demand Cost | | | | | | | | | |
| Commodity Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | (\$0.0344) | (\$0.0344) | 0.00% | \$0.0000 |
| Total Cost of Gas | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.5449 | (\$4.5157) | \$0.4458 | 6.85% | \$0.2915 |
| Avg Annual Cost | \$172,633.79 | \$120,767.06 | \$78,101.14 | \$81,041.05 | \$86,594.52 | (\$86,039.26) | \$8,493.39 | 6.85% | \$5,553.47 |
| Effect of proposed cor | nmodity change on averag | ge annual bills: | | | | | | | \$5,553.47 |
| Effect of proposed demand change on average annual bills: | | | | | | | | \$0.00 | |

| 4) Small Vol. Firm: Avg. | Annual Use: | 4,080 | | Mcf | | | | | |
|--|-----------------------|---------------|-------------|-------------|-------------|---------------|------------|---------|------------|
| | | 25 | | Mcf | | | | | |
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | (\$4.4813) | \$0.4802 | 7.42% | \$0.2915 |
| Demand Cost | \$13.4177 | \$12.0195 | \$10.3925 | \$9.3592 | \$15.8792 | \$2.4615 | \$5.4867 | 69.66% | \$6.5200 |
| Commodity Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | (\$0.0753) | (\$0.0753) | 0.00% | \$0.0000 |
| Demand Margin | \$2.0724 | \$2.0724 | \$2.0724 | \$2.0724 | \$1.8000 | (\$0.2724) | (\$0.2724) | -13.14% | (\$0.2724) |
| Total Cost of Gas | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.3882 | (\$4.5566) | \$0.4049 | 5.72% | \$0.2915 |
| Total Demand Cost | \$15.4901 | \$14.0919 | \$12.4649 | \$11.4316 | \$17.6792 | \$2.1891 | \$5.2143 | 54.65% | \$6.2476 |
| Avg Annual Cost | \$40,959.25 | \$29,818.48 | \$20,642.09 | \$21,078.90 | \$22,424.21 | (\$18,535.04) | \$1,782.12 | 6.38% | \$1,345.31 |
| Effect of proposed commodity change on average annual bills: | | | | | | | \$1,189.12 | | |
| Effect of proposed dem | and change on average | annual bills: | | | | | | | \$163.00 |

| 5) Large Vol. Firm: Avg. | Annual Use: | 14,841 | | Mcf | | | | | |
|--------------------------|--------------------------|------------------|-------------|-------------|-------------|---------------|------------|---------|------------|
| | | 75 | | Mcf | | | | | |
| Commodity Cost | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | (\$4.4813) | \$0.4802 | 7.42% | \$0.2915 |
| Demand Cost | \$13.4177 | \$12.0195 | \$10.3925 | \$9.3592 | \$15.8792 | \$2.4615 | \$5.4867 | 69.66% | \$6.5200 |
| Commodity Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | (\$0.0344) | (\$0.0344) | 0.00% | \$0.0000 |
| Demand Margin | \$0.1658 | \$1.6579 | \$1.6579 | \$1.6579 | \$1.4000 | \$1.2342 | (\$0.2579) | -15.56% | (\$0.2579) |
| Total Cost of Gas | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.5449 | (\$4.5157) | \$0.4458 | 6.85% | \$0.2915 |
| Total Demand Cost | \$13.5835 | \$13.6774 | \$12.0504 | \$11.0171 | \$17.2792 | \$3.6957 | \$5.2288 | 56.84% | \$6.2621 |
| Avg Annual Cost | \$135,487.13 | \$95,094.00 | \$61,738.52 | \$63,950.99 | \$68,746.37 | (\$18,330.52) | \$7,007.85 | 7.50% | \$4,795.38 |
| Effect of proposed com | modity change on average | ge annual bills: | | | | | | | \$4,325.72 |
| Effect of proposed dem | and change on average | annual bills: | | | | | | | \$489.00 |

Note: Average Annual Average based on PNG Annual Automatic Adjustment Report in Docket No. E,G999/AA-09-896

^{*}Implemented with Interim rates
**Interim rates implented on 10/1/08

RATE IMPACT OF THE PROPOSED DEMAND CHANGE
Illustrates FDD storage contract costs shifted from Demand costs to Commodity costs NOVEMBER 1, 2010

| | | | NOVEME | BER 1, 2010 NNG | | | | |
|--------------|---------------------------|-----------------|--------------------|--------------------|----------------------|--------------|------------------|---------------------------|
| V. NORTHER | N NATURAL GAS COMPA | NY'S RATES | CURRENT COS | | ECTIVE | | 01-Nov-10 | |
| | | | Tariff-Summer(7) T | | | 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 | \$7.6000 | \$6.4818 | \$0.0000 | \$6.4818 | |
| | Gas Cost | | | | | | \$4.0489 | |
| . ANNUAL S | SALES RATE CASE 2008 | 3 TOTAL | | | | | 213,137,630 | |
| I. PNG'S CU | RRENT COST OF GAS EF | FECTIVE: | | | | 01-Nov-10 | | |
| | | | | | | | | Rate/CCF |
| | TE40D (May Data) | Contract #(s) | 20.075 | Months | 67 5770 | | ¢2 con 202 | #0.0420 |
| A. GS | TF12B (Max Rate) | 112495 | 29,675 | 12 | \$7.5776 | = | \$2,698,383 | \$0.0139 |
| | TF12V (Max Rate) | 112495 | 32,290 | 12 | \$9.0926 | = | \$3,523,201 | \$0.0182 |
| | TF5 (Max Rate) | 112495 | 28,785 | 5 | \$15.1530 | = | \$2,180,896 | \$0.0112 |
| | TF12B (Discount-Winter) | 112495 | 5,200 | 12 | \$6.4818 | = | \$404,464 | \$0.0020 |
| | TF5 (Discount-Winter) | 112495 | 0 | 5 | \$7.6000 | = | \$0 | \$0.0000 |
| | TFX5 (Discount) | 112561 | 5,351 | 5 | \$4.5600 | = | \$122,003 | \$0.0006 |
| | TFX12 (Max Rate) | 112486 | 9,651 | 12 | \$9.6288 | = | \$1,115,131 | \$0.0057 |
| | TFX Apr (Max Rate) | 112486 | 1,784 | 1 | \$5.6830 | = | \$10,138 | \$0.0000 |
| | TFX Oct (Max Rate) | 112486 | 1,784 | 1 | \$5.6830 | = | \$10,138 | \$0.0000 |
| | TFX5 (Max Rate) | 112486 | 51,163 | 5 | \$15.1530 | = | \$3,876,365 | \$0.0200 |
| | TFX5 (Discount) | 112486 | 0 | 5 | \$13.8736 | = | \$0 | \$0.0000 |
| | TFX5 (Discount) | 112486 | 1,605 | 5 | \$7.6050 | = | \$61,030 | \$0.0003 |
| | TFX12 (Discount) | 111866 | 1,144 | 12 | \$4.8640 | = | \$66,773 | \$0.0003 |
| | TFX12 (Discount) | 111866 | 7,376 | 12 | \$5.4720 | = | \$484,338 | \$0.0025 |
| | TFX12 (Discount) | 111866 | 10,631 | 12 | \$2.2192 | = | \$283,108 | \$0.0014 |
| | TFX5 (Discount) | 111866 | 338 | 5 | \$4.8640 | = | \$8,220 | \$0.0000 |
| | TFX5 (Discount) | 111866 | 2,180 | 5 | \$5.4720 | = | \$59,645 | \$0.0003 |
| | TFX5 (Discount) | 111866 | 19,788 | 5 | \$15.1392 | = | \$1,497,872 | \$0.0077 |
| | SMS | 112521 | 20,226 | 12 | \$2.1800 | = | \$529,112 | \$0.0027 |
| | Bison | FT0003 | 44,589 | 10.5 | \$17.4800 | = | \$8,183,865 | \$0.0423 |
| | NBPL | T8673F | 44,589 | 10.5 | \$6.9920 | = | \$3,273,546 | \$0.01693 |
| | LO Danner | | 05.054 | | # 4.0400 | | # 000 000 | # 0.004 7 / |
| | LS Power WINDOM | | 25,951 2,500 | 3 12 | \$4.3463 \$0.0000 | = | \$338,369 \$0 | \$0.00175 \$0.00000 |
| | Total Demand Cost | | 2,000 | | ψ0.0000 | | \$28,726,597 | \$0.14860 |
| | Total Demand Cost | | | | | | Ψ20,720,007 | ψ0.1400t |
| | Rate Case 2008 volume | | | | | | 193,321,000 | |
| | GS-1 Demand Current C | ost of Gas/Ccf | | | | | | \$0.14860 |
| | GS-1 Commodity Currer | nt Cost of Gas/ | Ccf | | | | | \$0.4220° |
| | Total GS-1 Current Cost | of Gas/Ccf | | | | | | <u>\$0.5706</u> |
| GS-1. SVI. I | _VI, SJ-1, LJ-1, SLV-Comn | nodity | | | | | | |
| , . | , , . , | | Monthly | | | | | |
| | | | Entitlement | | Rate | Contract | Contract | Rate |
| | | | (Dth) | Months | (\$/Dth) | Costs | Costs | (\$/therm) |
| FDD | : FDD - Reservation | 118657 | 67,273 | 12 | \$1.7140 | = | \$1,383,671 | \$0.0064 |
| | FDD - Storage Cycle | 118657 | 775,728 | 5 | \$0.3567 | = | \$1,383,511 | \$0.0064 |
| | FDD - Reservation | 118657 | 4,949 | 12 | \$3.3157 | = | \$196,913 | \$0.0009 |
| | FDD - Storage Cycle | 118657 | 57,074 | 5 | \$0.6901 | = | \$196,934 | \$0.0009 |
| | FDD - Reservation | 121292 | 6,187 | 12 | \$1.7140 | = | \$127,254 | \$0.0006 |
| | FDD - Storage Cycle | 121292 | 71,342 | 5 | \$0.3567 | = | \$127,238 | \$0.0006 |
| | Firm Deferred Delivery | | acts | | | • | \$3,415,521 | \$0.0160 |
| | • | | | | | | | |
| | | | Annual | | | | Rate Case | |
| | | | Sales | | Rate | Commodity | Sales | Rate |
| | | | (Dth) | | (\$/Dth) | Cost | (therm) | (\$/therm) |
| | CD-1 Commodity | • | 21,313,763 | Х | \$4.0489 | \$86,297,295 | 213,137,630 | \$0.4048 |
| | Call Option Premium | | | | | \$232,781 | 213,137,630 | \$0.0010 |
| | GS-1, SVI-1, SJ-1, LJ-1, | SLV Commodi | ty Current Cost of | Gas/therm | | \$89,945,597 | 213,137,630 | \$0.4220 |
| | CURRENT FIRM TRANS | PORTATION C | OST OF GAS (CCI | =) | | | | \$0.7577 |
| IOINT PA | TE DEMAND CALCULATE | ON (SEE SCUE | EDITI E C) | | ¢1 59702 | | | ¢1 5070 |
| JUINT RA | TE DEMAND CALCULATI | ON (SEE SCHE | DULE C) | | \$1.58792 | | | \$1.58792 |
| | | | | | | | | |

RATE IMPACT OF THE PROPOSED DEMAND CHANGE

Illustrates FDD storage contract costs shifted from Demand costs to Commodity costs

NOVEMBER 1, 2010

NNG

| | | | NNG | | | | |
|-------------------------|------------|------------|--------------|------------------------|--------|-------------------------|-----------|
| COSTS ASSIGNED IN CO | MMODITY: | | | | | | |
| | | | | | | | |
| Canadian Contracts | | | <u>Units</u> | Cost/Unit | Day/Mo | Cost | \$/Ccf |
| | | | (b) | | | (d) | |
| Upstream: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Great Lakes | | | 0 | \$3.458 | 12 | \$0 | \$0.00000 |
| | | | | | | | \$0.00000 |
| Storage: | Contract # | | | | | | |
| FDD Withdrawal | 118657 | | 4,164,007 | \$0.0149 | | \$62,044 | \$0.00029 |
| FDD Injection | 118657 | | 4,164,007 | \$0.0149 | | \$62,044 | \$0.00029 |
| FDD Withdrawal | 121292 | | 356,712 | \$0.0149 | | \$5,315 | \$0.00002 |
| FDD Injection | 121292 | | 356,712 | \$0.0149 | | \$5,315 | \$0.00002 |
| , | | | | ***** | | 40,010 | \$0.00063 |
| | | | | | | | <u> </u> |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Call Option Premiums | | | 4,720,000 | \$0.3975 | | \$1,876,399 | \$0.00880 |
| Total Commodity Costs | | | 7,120,000 | ψυ.5975 | | \$2,011,117 | \$0.00880 |
| | INT DATE: | | | | | Ψ <u>ε,υ ι Ι, Ι Ι Ι</u> | Ψυ.υυσ44 |
| COSTS ASSIGNED IN JO | | Contract # | Month | Coat/I Init | | Cost | ¢/Cof |
| TE40D (Mary Data) | Units | Contract # | Month 10 | Cost/Unit | | Cost | \$/Ccf |
| TF12B (Max Rate) | 29,675 | 112495 | 12 | \$7.5776 | = | \$2,698,383 | \$0.14916 |
| TF12V (Max Rate) | 32,290 | 112495 | 12 | \$9.0926 | = | \$3,523,201 | \$0.19475 |
| TF5 (Max Rate) | 28,785 | 112495 | 5 | \$15.1530 | = | \$2,180,896 | \$0.12055 |
| TF12B (Discount-Winter) | 5,200 | 112495 | 12 | \$6.4818 | = | \$404,464 | \$0.02236 |
| TF5 (Discount-Winter) | 0 | 112495 | 5 | \$7.6000 | = | \$0 | \$0.00000 |
| TFX5 (Discount) | 5,351 | 112561 | 5 | \$4.5600 | = | \$122,003 | \$0.00674 |
| TFX12 (Max Rate) | 9,651 | 112486 | 12 | \$9.6288 | = | \$1,115,131 | \$0.06164 |
| TFX Apr (Max Rate) | 1,784 | 112486 | 1 | \$5.6830 | = | \$10,138 | \$0.00056 |
| TFX Oct (Max Rate) | 1,784 | 112486 | 1 | \$5.6830 | = | \$10,138 | \$0.00056 |
| TFX5 (Max Rate) | 51,163 | 112486 | 5 | \$15.1530 | = | \$3,876,365 | \$0.21427 |
| TFX5 (Discount) | 0 | 112486 | 5 | \$13.8736 | = | \$0 | \$0.00000 |
| TFX5 (Discount) | 1,605 | 112486 | 5 | \$7.6050 | = | \$61,030 | \$0.00337 |
| TFX12 (Discount) | 1,144 | 111866 | 12 | \$4.8640 | = | \$66,773 | \$0.00369 |
| TFX12 (Discount) | 7,376 | 111866 | 12 | \$5.4720 | = | \$484,338 | \$0.02677 |
| TFX7 (Discount) | 10,631 | 111866 | 12 | \$2.2192 | = | \$283,108 | \$0.01565 |
| TFX5 (Discount) | 338 | 111866 | 5 | \$4.8640 | = | \$8,220 | \$0.00045 |
| TFX5 (Discount) | 2,180 | 111866 | 5 | \$5.4720 | = | \$59,645 | \$0.00330 |
| TFX5 (Discount) | 19,788 | 111866 | 5 | \$15.1392 | = | \$1,497,872 | \$0.08280 |
| SMS | 20,226 | 112521 | 12 | \$2.1800 | = | \$529,112 | \$0.02925 |
| Bison | 44,589 | FT0003 | 10.5 | \$17.4800 | = | \$8,183,865 | \$0.45238 |
| NBPL | 44,589 | T8673F | 10.5 | \$6.9920 | = | \$3,273,546 | \$0.18095 |
| | | | | | | | |
| LS Power | 25,951 | | 3 | \$4.3463 | = | \$338,369 | \$0.01870 |
| WINDOM | 2,500 | | 12 | \$0.0000 | = | \$0 | \$0.00000 |
| | , - | | | | | | |
| Storage Reservation | 67,273 | 118657 | 0 | \$1.7140 | = | \$0 | \$0.00000 |
| Storage Cycle Volume | 775,728 | 118657 | 0 | \$0.3567 | = | \$0 | \$0.00000 |
| Storage Reservation | 4,949 | 118657 | 0 | \$3.3157 | = | \$0 | \$0.00000 |
| Storage Cycle Volume | 57,074 | 118657 | 0 | \$0.6901 | = | \$0 | \$0.00000 |
| Storage Reservation | 6,187 | 121292 | 0 | \$1.7140 | = | \$0 | \$0.00000 |
| Storage Cycle Volume | 71,342 | 121292 | 0 | \$0.3567 | = | \$0 \$0 | \$0.00000 |
| Clarage Cycle volume | 11,042 | 121232 | U | TOTAL | _ | \$28,726,597 | ψυ.υυυυ |
| | | | | Annualized Entitlement | | 18,090,750 | |
| | | | | Demand Component | | \$1.58792 | \$1.58792 |
| | | | | Demand Component | | <u> </u> | φ1.36/9Z |

MINNESOTA ENERGY RESOURCES

NNG Entitlement Allocation Heating Season 2010-2011

| | Total | | | |
|--|--------------------|-----------------|------------|--------------|
| | Entitlement | PNG | NMU | Total |
| | Levels | GS | GS | |
| | | | | |
| 1 Design Day | 218,213 | 194,598 | 23,615 | 218,213 |
| 2 Customer Requirements moving to Transport | | | - | - |
| 3 Adjusted Design Day | 218,213 | 194,598 | 23,615 | 218,213 |
| | | 89.18% | 10.82% | 100.00% |
| 5 Total Design Day Capacity | 261,675 I | 233,627 | 28,048 | 261,675 |
| 6 Less: Windom | (2,500) | (2,500) | | (2,500) |
| 7 Less: LS Power | (29,100) | (25,951) | (3,149) | (29,100) |
| 8 Less: Chisago Delivery to Viking | 0 | (20,001) | (0,110) | (20,100) |
| 9 Less: Contract Demand Units | 0 | 0 | | _ |
| | 230,075 | 205,176 | 24,899 | 230,075 |
| Direct Assigned Entitlement | 200,0.0 | 200,.70 | ,550 | |
| 10 TF12B (112495) | 39,107 | 34,875 | 4,232 | 39,107 |
| 11 TF12V (112495) | 36,209 | 32,290 | 3,919 | 36,209 |
| 12 TF5 (112495) | 32,278 | 28,785 | 3,493 | 32,278 |
| 13 TFX12 (112486) | 10,822 | 9,651 | 1,171 | 10,822 |
| 14 TFX April Only (112486) | 2,000 | 1,784 | 216 | 2,000 |
| 15 TFX October Only (112486) | 2,000 | 1,784 | 216 | 2,000 |
| 16 TFX5 (112486) | 59,171 | 52,768 | 6,403 | 59,171 |
| 17 TFX12 (111866) | 21,475 | 19,151 | 2,324 | 21,475 |
| 18 TFX5 (111866) | 25,013 | 22,306 | 2,707 | 25,013 |
| 19 TFX5 (112561) | 6,000 | 5,351 | 649 | 6,000 |
| 20 Bison (FT 0003) * | 50,000 | 44,589 | 5,411 | 50,000 |
| 21 NBPL (T6873F) * | 50,000 | 44,589 | 5,411 | 50,000 |
| 22 Total Winter Allocated Entitlement | 230,075 | 205,176 | 24,899 | 230,075 |
| 23 Windom | 2,500 | 2,500 | 0 | 2,500 |
| 24 LS Power | <u>29,100</u> | 25,951 | 3,149 | 29,100 |
| 25 Total Design Day Capacity | 261,675 | 233,627 | 28,048 | 261,675 |
| 26 Contract Demand | | | | - |
| 27 Total Design Day Capacity | 261,675 | 233,627 | 28,048 | 261,675 |
| | | 89.28% | 10.72% | 100.00% |
| Other Entitlements not included in Peak Day Deli | verability: alloca | tion based on o | design day | % on line 19 |
| 28 Storage | 4 000 004 | 4.404.00= | E0E 04.6 | 4 000 004 |
| 29 Storage MSQ - 118657 | 4,669,321 | 4,164,007 | 505,314 | 4,669,321 |
| 30 Storage MSQ - 121292 | 400,000 | 356,712 | 43,288 | 400,000 |
| 31 SMS | 22,680 | 20,226 | 2,454 | 22,680 |
| 32 Total Entitlement | 261,675 | 233,627 | 28,048 | 261,675 |
| 33 Design Day | 218,213 | 194,598 | 23,615 | 218,213 |
| 34 Reserve Margin | 43,462 | 39,029 | 4,433 | 43,462 |
| - · · · · · · · · · · · · · · · · · · · | 19.92% | 20.06% | 18.77% | 19.92% |
| | . 5.52 / 6 | 20.0070 | 70 | . 0.0=70 |

^{*} Bison/NBPL does not add incremental capacity but is utilized to deliver Rockies supply to NNG. Volume is not included in Total Design Day capacity.

| | | | | | ERGY RE | | | | |
|-----------------|------------------------------|-------------------------------------|------------------------|---------------------------|------------------------------------|------------------------------|--------------------------------------|--|--------------|
| | | | CALC | JLATION O | F DESIGN DA | Y REQUIREME | ENTS | | |
| <u>State</u> | 1/20 Design <u>DDD</u> | 09/10 Customer <u>Counts*</u> | Regressic Intercept | n Factors <u>Slope</u> | 2010-2011 Regression <u>Total</u> | Adjustment <u>Total *</u> | 1/20 Requirements Regression Load | Nov10-Mar11 Customer <u>Growth</u> | <u>Total</u> |
| MERC - Peak Day | | | | | | | | | |
| PNG | 99 | 158,298 | 26,150 | 2,217 | 259,378 | 64,651 | 194,727 | -0.10% | 194,598 |
| NMU | 103 | 17,729 | 2,495 | 238 | 29,075 | 4,482 | 24,593 | -4.00% | 23,615 |
| TOTAL | | 176,027 | 28,645 | 2,455 | 288,453 | 69,133 | 219,320 | | 218,213 |
| MERC - Non-Peak | Day | | | | | | | | |
| PNG | 55 | 158,298 | 26,150 | 2,217 | 161,224 | 41,677 | 119,547 | -0.10% | 119,468 |
| NMU | 55 | 17,729 | 2,495 | 238 | 17,629 | 2,892 | 14,737 | -4.00% | 14,151 |
| TOTAL | | 176,027 | 28,645 | 2,455 | 178,853 | 44,569 | 134,284 | | 133,619 |

^{*} Adjustment to remove interruptible and transportation volumes and add adjustment to achieve 97.5% confidence level that actual demand under design conditions will not exceed estimate.

MINNESOTA ENERGY RESOURCES-PNG/NMU CAPACITY RESOURCE ANALYSIS

2010-2011 VS. 2009-2010

| | | 2010-2011 | Proposed | | | 2009- | | Difference | | | | |
|----------------|---------|------------|----------------|--------------|--------|---------------|------------|--------------|---------------|------------|------------|--------------|
| | NNG | NNG | NNG | NNG | NNG | NNG | NNG | NNG | | | | |
| | Winter | <u>PNG</u> | <u>NMU</u> | <u>Total</u> | Winte | PNG | <u>NMU</u> | <u>Total</u> | <u>Winter</u> | <u>PNG</u> | <u>NMU</u> | <u>Total</u> |
| TF12(base) | 39,107 | 34,875 | 4,232 | 39,107 | 42,73 | , | 7,513 | 42,734 | (3,627 | , , | (3,281) | (3,627) |
| TF12(variable) | 36,209 | 32,290 | 3,919 | 36,209 | 29,82 | 6 24,583 | 5,243 | 29,826 | 6,383 | 7,707 | (1,324) | 6,383 |
| TF12 | 75,316 | 67,165 | 8,151 | 75,316 | 72,56 | 0 59,804 | 12,756 | 72,560 | 2,756 | 7,361 | (4,605) | 2,756 |
| Peak Capacity | - | | | - | - | | | - | - | | | - |
| TF5 | 32,278 | 28,785 | 3,493 | 32,278 | 31,61 | 0 29,619 | 1,991 | 31,610 | 668 | (834) | 1,502 | 668 |
| | | | | | | | | | | | | |
| TF Total | 107,594 | 95,950 | 11,644 | 107,594 | 104,17 | 0 89,423 | 14,747 | 104,170 | 3,424 | 6,527 | (3,103) | 3,424 |
| | | | | | | | | | | | | |
| TFX12 | 32,297 | 28,802 | 3,495 | 32,297 | 31,19 | 9 31,199 | - | 31,199 | 1,098 | (2,397) | 3,495 | 1,098 |
| TFX5 | 90,184 | 80,424 | 9,760 | 90,184 | 87,70 | <u>81,567</u> | 6,139 | 87,706 | 2,478 | (1,143) | 3,621 | 2,478 |
| | | | | | | | | | | | | |
| TFX Total | 122,481 | 109,226 | 13,255 | 122,481 | 118,90 | 5 112,766 | 6,139 | 118,905 | 3,576 | (3,540) | 7,116 | 3,576 |
| | | | | | | | | | | | | |
| NNG Total | 230,075 | 205,176 | 24,899 | 230,075 | 223,07 | 5 202,189 | 20,886 | 223,075 | 7,000 | 2,987 | 4,013 | 7,000 |
| | | | | | | | | | | | | |
| Bison | 50,000 | 44,589 | 5,411 | 50,000 | - | - | - | - | 50,000 | , | 5,411 | 50,000 |
| NBPL | 50,000 | 44,589 | 5,411 | 50,000 | - | - | - | - | 50,000 | 44,589 | 5,411 | 50,000 |
| Windom | 2,500 | 2,500 | . . | 2,500 | 2,50 | | | 2,500 | - | | - | - |
| LSP Peaking | 29,100 | 25,951 | 3,149 | 29,100 | _29,10 | 0 26,375 | 2,725 | 29,100 | | (424) | 424 | |
| | | | | | | | | | - | | | |
| Total | 261,675 | 233,627 | 28,048 | 261,675 | 254,67 | 5 231,064 | 23,611 | 254,675 | 7,000 | 2,563 | 4,437 | 7,000 |

| | NNG- | Total |
|----------------|-----------|---------|
| | <u>EF</u> | TOTAL |
| Design Day | 218,213 | 218,213 |
| Capacity | 261,675 | 261,675 |
| Reserve Margin | 43,462 | 43,462 |
| _ | 19.92% | 19.92% |

| | NNG- | PNG |
|----------------|-----------|---------|
| | <u>EF</u> | TOTAL |
| Design Day | 194,598 | 194,598 |
| Capacity | 233,627 | 233,627 |
| Reserve Margin | 39,029 | 39,029 |
| | 20.06% | 20.06% |

| | NNG-1 | UMV |
|----------------|-----------|--------|
| | <u>EF</u> | TOTAL |
| Design Day | 23,615 | 23,615 |
| Capacity | 28,048 | 28,048 |
| Reserve Margin | 4,433 | 4,433 |
| | 18.77% | 18.77% |

0.3975 \$ 1,876,399

MINNESOTA ENERGY RESOURCES - PNG-NNG

Financial Options
Heating Season 2010-2011

[TRADE SECRET DATA BEGINS

Units - Gas Daily Packages

No Gas Daily Peakers were purchased

| Nove | ily Volume) mber | Dece | ember | .lan | uary | Febr | uarv | Ma | arch | | |
|-----------------------|---|-----------------------|---------------------------|----------------------|------------------------------|-------------|----------------------------|-------------|----------------------------|----------------------|---------------------------|
| Contract | Daily | Contract | Daily | Contract | Daily | Contract | Daily | Contract | Daily | Daily | Term |
| Date | Volume | Date | Volume | Date | <u>Volume</u> | Date | Volume | Date | Volume | Total | Total |
| <u> </u> | | | | · | <u> </u> | | | | | | |
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| | | | | | | | | | | | |
| | 18,000 | | 7,419 | | 14,194 | | 6,429 | | 20,968 | 67,009 | 2,040,00 |
| | 540,000 | | 230,000 | | 440,000 | | 180,000 | | 650,000 | | 2,040,00 |
| | | | | | | | | | <u> </u> | | |
| Call Option: | s (Daily Volu | <u>me)</u> | | | | | | | | | |
| Nove | <u>mber</u> | Dece | <u>ember</u> | | <u>uary</u> | <u>Febr</u> | | <u>Ma</u> | <u>ırch</u> | | |
| Contract | Daily | Contract | Daily | Contract | Daily | Contract | Daily | Contract | Daily | Daily | Term |
| <u>Date</u> | <u>Volume</u> | <u>Date</u> | <u>Volume</u> | <u>Date</u> | <u>Volume</u> | <u>Date</u> | <u>Volume</u> | <u>Date</u> | <u>Volume</u> | <u>Total</u> | <u>Total</u> |
| | | | | | | | | | | | - |
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| | | | | | | | | | | | |
| | | | | | | | | | | | - |
| | | | | | | | | | | | - |
| | 24,667 | | 32,581 | | 37,742 | | 35,000 | | 26,452 | 156,441 | 4,720,00 |
| | 24,667 740,000 | | 32,581 1,010,000 | | 37,742 1,170,000 | | 35,000 980,000 | | 26,452 820,000 | <u>156,441</u> | 4,720,00 4,720,00 |
| m - Call Opt | | / Cost) | | | | | | | | 156,441 | |
| Nove | 740,000 tion (Monthly | Dece | | | 1,170,000 uary | <u>Febr</u> | 980,000 uary | | 820,000 arch | <u>Tot</u> | 4,720,00 |
| <u>Nove</u> Option | 740,000 tion (Monthly mber Premium | <u>Dece</u> Option | 1,010,000 ember Premium | <u>Jan</u> Option | 1,170,000 uary Premium | Option | 980,000 uary Premium | Option | 820,000 arch Premium | <u>Tot</u> Option | 4,720,00 al Premium |
| Nove | 740,000 tion (Monthly | Dece | 1,010,000 ember | | 1,170,000 uary | | 980,000 uary | | 820,000 arch | <u>Tot</u> | 4,720,00 |
| <u>Nove</u> Option | 740,000 tion (Monthly mber Premium | <u>Dece</u> Option | 1,010,000 ember Premium | Option | 1,170,000 uary Premium | Option | 980,000 uary Premium | Option | 820,000 arch Premium | <u>Tot</u> Option | 4,720,00 al Premium |
| <u>Nove</u> Option | 740,000 tion (Monthly mber Premium | <u>Dece</u> Option | 1,010,000 ember Premium | Option | 1,170,000 uary Premium | Option | 980,000 uary Premium | Option | 820,000 arch Premium | <u>Tot</u> Option | 4,720,00 al Premium |
| <u>Nove</u> Option | 740,000 tion (Monthly mber Premium | <u>Dece</u> Option | 1,010,000 ember Premium | Option | 1,170,000 uary Premium | Option | 980,000 uary Premium | Option | 820,000 arch Premium | <u>Tot</u> Option | 4,720,00 al Premium |
| <u>Nove</u> Option | 740,000 tion (Monthly mber Premium | <u>Dece</u> Option | 1,010,000 ember Premium | Option | 1,170,000 uary Premium | Option | 980,000 uary Premium | Option | 820,000 arch Premium | <u>Tot</u> Option | 4,720,00 al Premium |

Units - Collar Floor (put)

No Puts were purchased.

TRADE SECRET DATA ENDS]

Total \$ 0.3146 \$ 232,781 \$ 0.3341 \$ 337,482 \$ 0.4097 \$ 479,382 \$ 0.4618 \$ 452,553 \$ 0.4563 \$ 374,202 \$

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED*

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

Attachment 9 Page 1 of 2

10/11 Winter Portfolio Plan - MERC NNG-PNG Hedging Plan

[TRADE SECRET DATA BEGINS

TRADE SECRET DATA ENDS]

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

Attachment 9 Page 2 of 2

MINNESOTA ENERGY RESOURCES

NNG WINTER PLAN (PNG) NOVEMBER, 2010 THROUGH MARCH, 2011

[TRADE SECRET DATA BEGINS

Total **4,520,719**

TRADE SECRET DATA ENDS]

PUBLIC DOCUMENT - TRADE SECRET DATA HAS BEEN EXCISED

Attachment 10 NNG

| As Proposed 08- | M-06-1536 Peoples Mn | M-07-1405 Peoples Mn | M-08-1331 Peoples Mn | M-09- Peoples Mn | M-10- Peoples Mn | Proposed |
|--|---|--|---|--|---|---|
| Docian Day | GS 200,484 | GS 202,263 | GS 225,397 | GS 203,360 | GS 194,598 | Change -8,762 |
| Design Day Customer Requirements moving to Transportation 2005-6 Adjusted Design Day | 200,464 | 202,203 | 225,397 | 203,360 | 194,596 | -0,702 |
| Design Day Percentages | 33.79% | 32.16% | 30.56% | 31.50% | 35.92% | 4.42% |
| otal Design Day Capacity (includes non-recallable capacity | 227,526 | 233,785 | 233,785 | 238,064 | 233,627 | -4,437 |
| ess: Windom | 2,500 | 2,500 | 2,500 | 2,500 | 2,500 | (|
| ess: LS Power | 29,100 | 26,323 | 26,323 | 26,375 | 25,951 | -424 |
| ess: TF12B | 42,170 | 7,000 | 7,000 | 7,000 | 0 | -7,000 |
| ess: TF5 | 36,772 | | | | | (|
| ess: TFX(5) | 73,190 | 107.000 | 107.000 | 000 100 | 005 470 | 0.00 |
| otal Design Day Capacity actors for All Winter Capacity | 195,926 100.00% | 197,962 100.00% | 197,962 100.00% | 202,189 100.00% | 205,176 100.00% | -2,987 |
| Ilocated Entitlements in PGA | | | | | | |
| F12B | 42,170 | 43,858 | 29,906 | 35,221 | 34,875 | -346 |
| F12V | 34,070 | 15,946 | 32,690 | 24,583 | 32,290 | 7,707 |
| F5 | 36,772 | 29,619 | 26,827 | 29,619 | 28,785 | -834 |
| FX12 | 9,724 | 18,409 | 29,246 | 31,199 | 28,802 | -2,397 |
| FX(5) | 73,190 | 90,130 | 79,293 | 81,567 | 80,424 | -1,143 |
| FX(5) (12-V) | 0 | 0 | 0 | 0 | 0 | 4.70 |
| FX (October Only) FX (April Only) | 0 | 0 | 0 | 0 | 1,784 1,784 | 1,784 1,784 |
| S Power | 0 | 26,323 | 26,323 | 26,375 | 25,951 | -424 |
| s rower | 0 | 20,323 | 20,323 | 20,373 | 44,589 | 44,589 |
| IBPL * | 0 | 0 | 0 | 0 | 44,589 | 44,589 |
| Peak Capacity | 195,926 | 224,285 | 224,285 | 228,564 | 231,127 | 2,563 |
| otal Allocated Entitlements in PGA | 195,926 | 224,285 | 224,285 | 228,564 | 323,872 | 95,308 |
| | 2,500 29,100 | 2,500 26,323 | 2,500 26,323 | 2,500 0 | 2,500 0 | |
| S Power FX (October Only) FX (April Only) FX(5) | 29,100 2,000 2,000 0 | 26,323 1,784 1,784 0 | 26,323 2,000 2,000 0 | 0 2,000 2,000 | 0 0 0 | -2,000 -2,000 -2,000 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) | 29,100 2,000 2,000 0 0 | 26,323 1,784 1,784 0 0 | 26,323 2,000 2,000 0 | 0 2,000 2,000 0 0 | 0 0 0 0 | -2,000 -2,000 (|
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) | 29,100 2,000 2,000 0 0 | 26,323 1,784 1,784 0 0 | 26,323 2,000 2,000 0 0 | 0 2,000 2,000 0 0 | 0 0 0 0 0 | -2,000 -2,000 (|
| S Power FX (October Only) FX (April Only) FX(5) FX(5) FX(7) FX(5) otal Direct Assignments | 29,100 2,000 2,000 0 0 0 35,600 | 26,323 1,784 1,784 0 0 0 32,390 | 26,323 2,000 2,000 0 0 0 32,823 | 0 2,000 2,000 0 0 0 6,500 | 0 0 0 0 0 0 | -2,000 -2,000 (((4,000 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving | 29,100 2,000 2,000 0 0 | 26,323 1,784 1,784 0 0 | 26,323 2,000 2,000 0 0 | 0 2,000 2,000 0 0 | 0 0 0 0 0 | -2,000 -2,000 (((4,000 -1,43 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity | 29,100 2,000 2,000 0 0 0 35,600 231,526 | 26,323 1,784 1,784 0 0 0 32,390 256,675 | 26,323 2,000 2,000 0 0 0 32,823 257,108 | 0 2,000 2,000 0 0 6,500 235,064 | 0 0 0 0 0 0 2,500 233,627 | -2,000 -2,000 (((4,000 -1,437 |
| S Power FX (October Only) FX (April Only) FX (April Only) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity otal Transp. (with TFX Offpeak less LSP) | 29,100 2,000 2,000 0 0 35,600 231,526 0 227,526 198,426 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 | 26,323 2,000 2,000 0 0 32,823 257,108 0 253,108 226,785 | 0 2,000 2,000 0 0 0 6,500 235,064 0 231,064 204,689 | 0 0 0 0 0 2,500 233,627 0 233,627 207,676 | -2,000 -2,000 (((4,000 -1,43; (2,56; 2,98; |
| S Power FX (October Only) FX (April Only) FX (April Only) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity otal Transp. (with TFX Offpeak less LSP) otal Annual Transportation | 29,100 2,000 2,000 0 0 0 35,600 231,526 0 227,526 198,426 88,464 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 | 26,323 2,000 2,000 0 0 32,823 257,108 0 253,108 226,785 94,342 | 0 2,000 2,000 0 0 0 6,500 235,064 0 231,064 204,689 93,503 | 0 0 0 0 0 0 2,500 233,627 0 233,627 207,676 98,467 | -2,000 -2,000 ((4,000 -1,433 (2,56; 2,983 4,964 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity otal Transp. (with TFX Offpeak less LSP) otal Annual Transportation otal Seasonal Transportation | 29,100 2,000 2,000 0 0 35,600 231,526 0 227,526 198,426 88,464 139,062 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 172,395 | 26,323 2,000 2,000 0 0 32,823 257,108 0 253,108 226,785 94,342 158,766 | 2,000 2,000 0 0 0 0 5,500 235,064 0 231,064 204,689 93,503 137,561 | 0 0 0 0 0 2,500 233,627 0 233,627 207,676 98,467 135,160 | -2,000 -2,000 ((4,000 -1,43; (2,56; 2,98; 4,96; -2,40; |
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| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity otal Transp. (with TFX Offpeak less LSP) otal Annual Transportation otal Seasonal Transportation otal Percent Seasonal S Power as % of Total DD Capacity deserve Margin Direct Assigned Demand Not in PGA F-12-B Contract Demand otal Design Day Capacity w/ contract demanc factors Other Entitlements not included in Peak Day Deliverability iteld TF (TFF) (NMU direct assigned) FX Offpeak Old Oct. (35,000) FX Offpeak Old Oct. (44,600) FX Offpeak New Oct. (14,600) FX Offpeak New Apr. (39,600) FX Offpeak New Apr. (39,600) FX Offpeak New Apr. (59,600) FX Offpeak Poct FX Apr FX Apr FX Apr FX Apr DS Storage reservation DD Storage capacity | 29,100 2,000 2,000 0 0 35,600 231,526 198,426 88,464 139,062 61.1% 12.8% 13.49% 0 227,526 33.79% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 172,395 68.1% 10.4% 25.14% 0 0 233,785 32.16% | 26,323 2,000 2,000 0 0 0 32,823 257,108 253,108 226,785 94,342 158,766 62.7% 10.4% 12.29% 0 233,785 30.56% 0 0 0 0 2,000 1,784 0 0 | 0 2,000 2,000 0 0 0 0 235,064 204,689 93,503 137,561 59.5% 11.4% 13.62% | 0 0 0 0 0 2,500 233,627 207,676 98,467 135,160 57.9% 11.1% 20.06% 0 233,627 35.92% 0 0 0 1,784 1,784 | -2,000 -2,000 (4,000) -1,437 (2,566 2,987 4,966 -2,401 -1,68% -0,31% 6,43% (0) (1) (1) (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) FX(7) FX(5) otal Direct Assignments otal Capacity before Peak Shaving P Peak Shaving otal Design Day Capacity otal Transp. (with TFX Offpeak less LSP) otal Annual Transportation otal Seasonal Transportation otal Percent Seasonal S Power as % of Total DD Capacity deserve Margin Direct Assigned Demand Not in PGA F-12-B Contract Demand otal Design Day Capacity w/ contract demanc factors Other Entitlements not included in Peak Day Deliverability iteld TF (TFF) (NMU direct assigned) FX Offpeak Old Oct. (35,000) FX Offpeak Old Oct. (44,600) FX Offpeak New Oct. (14,600) FX Offpeak New Apr. (39,600) FX Offpeak New Apr. (39,600) FX Offpeak New Apr. (59,600) FX Offpeak Poct FX Apr FX Apr FX Apr FX Apr DS Storage reservation DD Storage capacity | 29,100 2,000 2,000 0 0 0 35,600 231,526 198,426 88,464 139,062 61.1% 12.8% 13.49% 0 227,526 33.79% 0 0 0 0 0 0 0 0 0 0 0 4,349,321 0 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 172,395 68.1% 10.4% 25.14% 0 0 233,785 32.16% | 26,323 2,000 2,000 0 0 32,823 257,108 0 253,108 226,785 94,342 158,766 62.7% 10.4% 12.29% 0 233,785 30.56% 0 0 0 0 0 2,000 1,784 0 0 76,476 | 0 2,000 2,000 0 0 0 0 235,064 204,689 93,503 137,561 59.5% 11.4% 13.62% 0 238,064 31.50% | 0 0 0 0 0 2,500 233,627 207,676 98,467 135,160 57.9% 11.1% 20.06% 0 233,627 35.92% 0 0 0 1,784 1,784 0 0 78,409 | -2,000 -2,000 (4,000) -1,437 (2,563 2,987 4,964 -2,401 -1.68% -0.31% 6.43% (0,000) -4,437 4.42% (0,000) -216 -216 -216 -216 -216 -216 -216 -216 |
| S Power FX (October Only) FX (April Only) FX(5) FX(7) FX(5) FX(7) FX(5) Total Direct Assignments Total Capacity before Peak Shaving P Peak Shaving Total Design Day Capacity Total Annual Transportation Total Seasonal Transportation Total Seasonal Transportation Total Seasonal Transportation Total Percent Seasonal S Power as % of Total DD Capacity Reserve Margin Direct Assigned Demand Not in PGA F-12-B Contract Demand Total Design Day Capacity w/ contract demanc Total Design Day Capacity w/ contract demanc Total Capacity Transportation Transportation Total Percent Seasonal Transportation Total Percent Seasonal Transportation Total Percent Seasonal Transportation Total Percent Seasonal Transportation Total Percent Seasonal Transportation Transportation Transportation Total Percent Seasonal Transportation Total Percent | 29,100 2,000 2,000 0 0 35,600 231,526 198,426 88,464 139,062 61.1% 12.8% 13.49% 0 227,526 33.79% 0 0 0 0 0 0 0 0 0 0 0 4,349,321 0 188,000 | 26,323 1,784 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 172,395 68.1% 10.4% 25.14% 0 233,785 32.16% 0 0 0 0 0 0 0 0 0 0 0 0 0 | 26,323 2,000 2,000 0 0 0 32,823 257,108 2257,108 2253,108 226,785 94,342 158,766 62,7% 10,4% 12,29% 0 233,785 30,56% 0 0 0 2,000 1,784 4,409,251 0 0 | 0 2,000 2,000 0 0 0 0 0 235,064 204,689 93,503 137,561 59.5% 11.4% 13.62% 0 238,064 31.50% 0 0 0 0 0 0,000 2,000 2,000 2,000 0 0 76,628 4,417,893 0 | 0 0 0 0 0 2,500 233,627 207,676 98,467 135,160 57.9% 11.1% 20.06% 0 233,627 35.92% 0 0 0 1,784 1,784 1,784 1,784 9,4520,719 0 0 | -2,000 -2,000 -2,000 (4,000) -1,437 -2,563 2,987 4,964 -2,401 -1,68% -0,31% 6,43% -4,437 4,42% |
| Windom S Power S Power FTX (October Only) FTX (April Only) FTX (April Only) FTX(5) FTX(7) FTX(5) FTX(7) FTX(5) FTX(7) FTX(5) FTX(6) FTX(7) FTX(5) FTX(6) FTX(7) FTX(5) FTX(6) FTX(7) FTX(6) FTX(7) FTX(6) FTX(7) FTX(6) FTX(7) FTX(6) FTX | 29,100 2,000 2,000 0 0 0 35,600 231,526 198,426 88,464 139,062 61.1% 12.8% 13.49% 0 227,526 33.79% 0 0 0 0 0 0 0 0 0 0 0 4,349,321 0 | 26,323 1,784 1,784 0 0 0 32,390 256,675 0 253,108 226,785 80,713 172,395 68.1% 10.4% 25.14% 0 0 1,784 | 26,323 2,000 2,000 0 0 0 0 32,823 257,108 253,108 226,785 94,342 158,766 62.7% 10.4% 12.29% 0 233,785 30.56% 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 2,000 2,000 0 0 0 0 0 235,064 204,689 93,503 137,561 59.5% 11.4% 13.62% 0 0 238,064 31.50% 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 0 0 2,500 233,627 207,676 98,467 135,160 57.9% 11.1% 20.06% 0 0 233,627 35.92% 0 0 1,784 1,784 1,784 1,784 1,784 1,784 0 0 78,409 4,520,719 | -2,000 -2,000 0 0 (4,000) -1,437 0 2,563 2,987 4,964 -2,401 -1.68% -0.31% 6.43% |

Rate Impacts NNG

| 1) General Service: Av | g. Annual Use: | | | 125 | Mcf | | | | |
|--------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------|-------------------------|--------------------------|------------------------------------|
| ., | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/10 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-08-XXXX | M-09-XXXX | Oct 1/10 | Demand Changes** | Rate Case^^ | Demand Filing | PGA | PGA |
| Commodity Rate | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | -53.34% | 8.55% | 3.34% | \$0.1312 |
| Demand Rate | \$1.1197 | \$1.0903 | \$1.0883 | \$1.0362 | \$1.6626 | 48.49% | 52.77% | 60.45% | \$0.6264 |
| Margin | \$1.6263 | \$1.6263 | \$1.6263 | \$1.7746 | \$1.7746 | 9.12% | 9.12% | 0.00% | \$0.0000 |
| Total Recovery | \$11,4474 | \$8.6958 | \$6.4545 | \$6.7394 | \$7.4970 | -34.51% | 16.15% | 11.24% | \$0.7576 |
| Avg. Annual Bill* | \$1,429,40 | \$1.085.82 | \$805.95 | \$841.53 | \$936.13 | -34.51% | 16.15% | 11.24% | \$94.60 |
| Effect of proposed commo | | | φοσσ.σσ | φστιισσ | \$000.10 | 0 1.0 1 70 | 10.1070 | 1112170 | \$16.39 |
| Effect of proposed deman | | | | | | | | | \$78.22 |
| 2) Small Volume Interru | | | | 4.080 | Mcf | | | | ¥ |
| , | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/09 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-07-XXXX | M-08-XXXX | Oct 1/09 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | -53.34% | 8.55% | 3.34% | \$0.1312 |
| Demand Rate | * | **** | | **** | • | | | | \$0.0000 |
| Margin | \$1,2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1,1681 | -6.06% | -6.06% | 0.00% | \$0.0000 |
| Total Recovery | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.2279 | -47.43% | 4.91% | 2.57% | \$0.1312 |
| Avg. Annual Bill* | \$40,572.00 | \$29,466.19 | \$20,330.47 | \$20,793.11 | \$21,328.46 | -47.43% | 4.91% | 2.57% | \$535.35 |
| Effect of proposed commo | | | + ==,===== | + ==, | * | | | , | \$535.35 |
| Effect of proposed deman | | | | | | | | | \$0.00 |
| 3) Large Volume Interru | | | | 19.053 | Mcf | | | <u> </u> | φ0.00 |
| o, go ro | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/09 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-07-XXXX | M-08-XXXX | Oct 1/09 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8,7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | -53.34% | 8.55% | 3.34% | \$0.1312 |
| Demand Rate | ψοσ | ψο.σ. σ2 | ψοσσσ | ψ0.0200 | ψσσσσ | 00.0170 | 0.0070 | 0.0170 | \$0.0000 |
| Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | -9.58% | -9.58% | 0.00% | \$0.0000 |
| Total Recovery | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.3846 | -51.61% | 6.97% | 3.09% | \$0.1312 |
| Avg. Annual Bill* | \$172,633.79 | \$120,767.06 | \$78,101.14 | \$81,041.05 | \$83,541.25 | -51.61% | 6.97% | 3.09% | \$2,500.20 |
| Effect of proposed commo | | | Ψ70,101.14 | ψ01,041.03 | ψ05,541.25 | -31.0170 | 0.37 /0 | 3.0370 | \$2,500.20 |
| Effect of proposed deman | | | | | | | | | \$0.00 |
| 4) Small Volume Firm: A | | indai billo. | | 4.080 | Mcf | | | l | ψ0.00 |
| | nual CD Volumes: | | | | Mcf | | | | |
| , g ., | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/09 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-07-XXXX | M-08-XXXX | Oct 1/09 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | -53.34% | 8.55% | 3.34% | \$0.1312 |
| Demand Rate | \$13.4177 | \$12.0195 | \$10.3925 | \$9.3592 | \$10.7565 | -19.83% | 3.50% | 14.93% | \$1.3973 |
| Comm. Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | -6.06% | -6.06% | 0.00% | \$0.0000 |
| SV Dem. Margin | \$2.0724 | \$2.0724 | \$2.0724 | \$2.0724 | \$1.8000 | -13.14% | -13.14% | -13.14% | (\$0.2724) |
| Total Commodity Cost | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.2279 | -47.43% | 4.91% | 2.57% | \$0.1312 |
| Total Demand Cost | \$15.4901 | \$14.0919 | \$12.4649 | \$11.4316 | \$12.5565 | -18.94% | 0.73% | 9.84% | \$1.1249 |
| Avg. Annual Bill* | \$40.959.25 | \$29.818.48 | \$20.642.09 | \$21,078.90 | \$21,642.37 | -47.16% | 4.85% | 2.67% | \$563.47 |
| Effect of proposed commo | | | Ψ20,042.03 | Ψ21,070.30 | ΨΖ1,042.57 | -47.1070 | 4.0370 | 2.07 /0 | \$535.35 |
| Effect of proposed deman | | | | | | | | | \$34.93 |
| 5) Large Volume Firm: A | | iiiual Dillo. | | 14,841 | Mcf | | | | φυ4.90 |
| | nnual CD Units: | | | | Mcf | | | | |
| Avg. All | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/09 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-07-XXXX | M-08-XXXX | Oct 1/09 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8,7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.0598 | -53.34% | 8.55% | 3.34% | \$0.1312 |
| Demand Rate | \$8.7014 \$13.4177 | \$5.9792 \$12.0195 | \$3.7399 \$10.3925 | \$3.9286 \$9.3592 | \$4.0596 \$10.7565 | -53.34% -19.83% | 3.50% | 3.34% 14.93% | \$1.3973 |
| Comm. Margin | \$13.4177 \$0.3592 | \$12.0195 \$0.3592 | \$10.3925 \$0.3592 | \$9.3592 \$0.3248 | \$10.7565 \$0.3248 | -19.83% -9.58% | 3.50% -9.58% | 0.00% | \$1.3973 |
| LV Dem. Margin | | | | | | | | | |
| | \$0.1658 | \$1.6579 | \$1.6579 | \$1.6579 | \$1.4000 | 744.39% | -15.56% | -15.56% | (\$0.2579) |
| | ΦΩ ΩΩΩΩ | rc 2004 | ₾4.0004 | | | | | | |
| Total Commodity Cost | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.3846 | -51.61% | 6.97% | 3.09% | \$0.1312 |
| | \$9.0606 \$13.5835 \$135,487.13 | \$6.3384 \$13.6774 \$95,094.00 | \$4.0991 \$12.0504 \$61,738.52 | \$4.2534 \$11.0171 \$63,950.99 | \$4.3846 \$12.1565 \$65,983.91 | -51.61% -10.51% -51.30% | 6.97% 0.88% 6.88% | 3.09% 10.34% 3.18% | \$0.1312 \$1.1394 \$2,032.92 |

Rate Impacts (Illustrates FDD storage contract costs shifted from Demand costs to Commodity costs)

NNG

| | J. Annual Use: | | | | Mcf | | | | |
|---|---|--|---|---|---|---|--|---|---|
| | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/10 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836 ^ | M-08-XXXX | M-09-XXXX | Oct 1/10 | Demand Changes** | Rate Case ^^ | Demand Filing | PGA | PGA |
| Commodity Rate | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | -51.50% | 12.84% | 7.42% | \$0.2915 |
| Demand Rate | \$1.1197 | \$1.0903 | \$1.0883 | \$1.0362 | \$1.4860 | 32.71% | 36.54% | 43.40% | \$0.4498 |
| Margin | \$1.6263 | \$1.6263 | \$1.6263 | \$1.7746 | \$1.7746 | 9.12% | 9.12% | 0.00% | \$0.0000 |
| Total Recovery | \$11.4474 | \$8.6958 | \$6.4545 | \$6.7394 | \$7.4806 | -34.65% | 15.90% | 11.00% | \$0.7412 |
| Avg. Annual Biff | \$1,429.40 | \$1,085.82 | \$805.95 | \$841.53 | \$934.08 | -34.65% | 15.90% | 11.00% | \$92.55 |
| Effect of proposed commo | dity change on averag | e annual bills: | | | | | | | \$36.40 |
| Effect of proposed demand | d change on average a | annual bills: | | | | | | | \$56.16 |
| 2) Small Volume Interru | | | | 4,080 | Mcf | | | | |
| | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/10 PGA | % Change | % Change | % Change | \$ Change |
| | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-08-XXXX | M-09-XXXX | Oct 1/10 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8,7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4,2201 | -51.50% | 12.84% | 7.42% | \$0.2915 |
| Demand Rate | ****** | ******* | ******* | 40.0200 | *==* | | 1 - 1 - 1 / 1 | , | ******* |
| Margin | \$1.2434 | \$1.2434 | \$1.2434 | \$1.1681 | \$1.1681 | -6.06% | -6.06% | 0.00% | \$0.0000 |
| Total Recovery | \$9.9448 | \$7.2226 | \$4.9833 | \$5.0967 | \$5.3882 | -45.82% | 8.12% | 5.72% | \$0.2915 |
| Avg. Annual Biff | \$40,572.00 | \$29,466.19 | \$20,330.47 | \$20,793.11 | \$21,982.23 | -45.82% | 8.12% | 5.72% | \$1,189.12 |
| | | | \$20,330.47 | \$20,793.11 | \$21,982.23 | -45.82% | 8.12% | 5.72% | |
| Effect of proposed commo | | | | | | | | | \$1,189.12 \$0.00 |
| Effect of proposed demand | | | | 40.050 | M-f | | | | \$0.00 |
| 3) Large Volume Interru | | | Leet D. | 19,053 | | 0/ Oh | 0/ OL | 0/ Ob | A 01 |
| | Base Cost of Gas | Demand | Last Demand | Most Recent | Nov1/10 PGA | % Change | % Change | % Change | \$ Change |
| _ | Change | Change | Change | PGA | w/ Proposed | From Last | From Last | From Last | From Last |
| Recovery | G011/MR08-836^ | M-08-XXXX | M-09-XXXX | Oct 1/10 | Demand Changes** | Rate Case | Demand Filing | PGA | PGA |
| Commodity Rate | \$8.7014 | \$5.9792 | \$3.7399 | \$3.9286 | \$4.2201 | -51.50% | 12.84% | 7.42% | \$0.2915 |
| Demand Rate | | | | | | | | | |
| Margin | \$0.3592 | \$0.3592 | \$0.3592 | \$0.3248 | \$0.3248 | -9.58% | -9.58% | 0.00% | \$0.0000 |
| Total Recovery | \$9.0606 | \$6.3384 | \$4.0991 | \$4.2534 | \$4.5449 | -49.84% | 10.87% | 6.85% | \$0.2915 |
| Avg. Annual Biff | \$172,633.79 | \$120,767.06 | \$78,101.14 | \$81,041.05 | \$86,594.52 | -49.84% | 10.87% | 6.85% | \$5,553.47 |
| Effect of proposed commo | dity change on averag | e annual bills: | | | | | | | \$5,553.47 |
| | | naual billar | | | | | | | \$0.00 |
| Effect of proposed demand | d change on average a | iririuai bilis. | | | | | | | φυ.υι |
| Effect of proposed demand 4) Small Volume Firm: A | | innuai dilis. | | 4,080 | Mcf | | | | φ0.00 |
| 4) Small Volume Firm: A | | innual bills. | | | Mcf Mcf | | | | \$0.00 |
| 4) Small Volume Firm: A | vg. Annual Use: | Demand | Last Demand | | | % Change | % Change | % Change | \$ Change |
| 4) Small Volume Firm: A | vg. Annual Use: nual CD Volumes: | | Last Demand Change | 25 | Mcf | % Change From Last | % Change From Last | % Change From Last | |
| 4) Small Volume Firm: A Avg. An | nual CD Volumes: Base Cost of Gas Change | Demand Change | | 25 Most Recent | Mcf Nov1/10 PGA w/ Proposed | From Last | From Last | | \$ Change |
| 4) Small Volume Firm: A | lvg. Annual Use: nual CD Volumes: Base Cost of Gas | Demand | Change | Most Recent PGA | Mcf Nov1/10 PGA | | | From Last | \$ Change From Last PGA |
| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate | Nyg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 | Demand Change M-08-XXXX \$5.9792 | Change M-09-XXXX \$3.7399 | 25 Most Recent PGA Oct 1/10 \$3.9286 | Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 | From Last Rate Case -51.50% | From Last Demand Filing 12.84% | From Last PGA 7.42% | \$ Change From Last PGA \$0.2915 |
| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate | Nys. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 | Demand Change M-08-XXXX \$5.9792 \$12.0195 | Change M-09-XXXX \$3.7399 \$10.3925 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 | Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 \$15.8792 | From Last Rate Case -51.50% 18.35% | From Last Demand Filing 12.84% 52.79% | From Last PGA 7.42% 69.66% | \$ Change From Last PGA \$0.2915 \$6.5200 |
| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin | Ng. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 | Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1681 | From Last Rate Case -51.50% 18.35% -6.06% | From Last Demand Filing 12.84% 52.79% -6.06% | From Last PGA 7.42% 69.66% 0.00% | \$ Change From Last PGA \$0.2915 \$6.5200 \$0.0000 |
| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin | vg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 \$2.0724 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 | Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1681 \$1.8000 | From Last Rate Case -51.50% 18.35% -6.06% -13.14% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% | From Last PGA 7.42% 69.66% 0.00% -13.14% | \$ Change From Last PGA \$0.2915 \$6.5200 \$0.0000 (\$0.2724 |
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| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bill Effect of proposed demand 5) Large Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate | Ng. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$1.2434 \$2.0724 \$9.9448 \$15.4901 \$40,959.25 dity change on average a long on average a long on average a long on average a long of the long of the long of the long Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$0.3592 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 \$7.2226 \$14.0919 \$29.818.48 e annual bills: annual bills: Demand Change M-08-XXXX \$5.9792 \$12.0195 \$0.3592 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 \$4.9833 \$12.4649 \$20,642.09 Last Demand Change M-09-XXXX \$3.7399 \$10.3925 \$0.3592 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 \$5.0967 \$11.4316 \$21,078.90 14,841 75 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$0.3248 | Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1681 \$1.8000 \$5.3882 \$17.6792 \$22,424.21 Mcf Mcf Nov1/10 PGA w/ Proposed Demand Changes** \$4.2201 \$15.8792 \$0.3248 | From Last Rate Case -51.50% -13.55% -6.06% -13.14% -45.25% -45.25% % Change From Last Rate Case -51.50% -13.35% -9.58% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% 8.12% 41.83% 8.63% Change From Last Demand Filing 12.84% 52.79% -9.58% | From Last PGA 7.42% 69.66% 0.00% -13.14% 5.72% 54.65% 6.38% % Change From Last PGA 7.42% 69.66% 0.00% | \$ Change From Last PGA \$0.291\$ \$6.5200 \$0.0000 \$0.2724 \$1,345.3* \$1,189.12 \$163.00 \$ Change From Last PGA \$0.291\$ \$6.5200 \$0.0000 \$0.0000 |
| Ays. An Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bill Effect of proposed commo Effect of proposed demand 5) Large Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin LV Dem. Margin Total Commodity Cost | Avg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 \$2.0724 \$9.9448 \$15.4901 \$40,959.25 dity change on average a Avg. Annual Use: nual CD Units: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$0.3592 \$0.1658 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 \$7.2226 \$14.0919 \$29,818.48 e annual bills: annual bills: Demand Change M-08-XXXX \$5.9792 \$12.0195 \$0.3592 \$1.6579 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 \$4.9833 \$12.4649 \$20,642.09 Last Demand Change M-09-XXXX \$3.7399 \$10.3925 \$0.3592 \$1.6579 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 \$5.0967 \$11.4316 \$21,078.90 14,841 75 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$0.3248 \$1.6579 | Mcf Nov1/10 PGA W Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1681 \$1.8000 \$5.3882 \$17.6792 \$22.424.21 Mcf Mcf Nov1/10 PGA W Proposed Demand Changes** \$4.2201 \$15.8792 \$0.3248 \$1.4000 | From Last Rate Case -51.50% -13.35% -6.06% -13.14% -45.82% 14.13% -45.25% % Change From Last Rate Case -51.50% 18.35% -9.58% 744.39% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% 8.12% 41.83% 8.63% *Change From Last Demand Filing 12.84% 52.79% -9.58% -15.56% | From Last PGA 7.42% 69.66% 0.00% -13.14% 5.72% 54.65% 6.38% % Change From Last PGA 7.42% 69.66% 0.00% -15.56% | \$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.272- \$0.291! \$6.247(\$1,345.3' \$1,189.1: \$163.0(\$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.0 |
| Ayg. Annual Bill Effect of proposed domand Stage Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bill Effect of proposed domand Street of proposed domand Street of proposed demand Avg. An Recovery Commodity Rate Demand Rate Comm. Margin Total Commodity Cost Total Demand Cost | Arg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 \$2.0724 \$9.9448 \$15.4901 \$40,959.25 dity change on average a tyg. Annual Use: nual CD Units: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$0.3592 \$0.1658 \$9.0606 \$13.5836 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 \$7.2226 \$14.0919 \$29.818.48 e annual bills: Demand Change M-08-XXXX \$5.9792 \$12.0195 \$0.3592 \$1.6579 \$6.3384 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 \$4.9833 \$12.4649 \$20,642.09 Last Demand Change M-09-XXXX \$3.7399 \$10.3925 \$0.3592 \$1.6579 \$4.0991 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 \$5.0967 \$11.4316 \$21,078.90 14,841 75 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$0.3248 \$1.6579 \$4.2534 | Mcf Nov1/10 PGA W Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1681 \$1.8000 \$5.3882 \$17.6792 \$22,424.21 Mcf Mcf Nov1/10 PGA W Proposed Demand Changes** \$4.2201 \$15.8792 \$0.3248 \$1.4000 \$4.5449 | From Last Rate Case -51.50% -13.35% -6.06% -13.14% -45.82% -14.13% -45.25% % Change From Last Rate Case -51.50% 18.35% -9.58% 744.39% -49.84% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% 8.12% 41.83% 8.63% *Change From Last Demand Filing 12.84% 52.79% -9.58% -15.56% 10.87% | From Last PGA 7.42% 69.66% 0.00% -13.14% 5.72% 54.65% 6.38% % Change From Last PGA 7.42% 69.66% 0.00% -15.56% 6.85% | \$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.272' \$0.291! \$6.247(\$1,345.3' \$1,189.1: \$163.0(\$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.257' \$0.291! \$6.6262' |
| 4) Small Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bill Effect of proposed domand 5) Large Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin LV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bill | Avg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 \$2.0724 \$9.9448 \$15.4901 \$40,959.25 dity change on average a tyg. Annual Use: nual CD Units: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$0.3592 \$0.1658 \$9.0606 \$13.5835 \$13.5835 \$135,487.13 | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 \$7.2226 \$14.0919 \$29,818.48 e annual bills: annual bills: Demand Change M-08-XXXX \$5.9792 \$12.0195 \$0.3584 \$13.6774 \$95.094.00 | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 \$4.9833 \$12.4649 \$20,642.09 Last Demand Change M-09-XXXX \$3.7399 \$10.3925 \$0.3592 \$1.6579 \$4.0991 \$12.0504 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 \$5.0967 \$11.4316 \$21,078.90 14,841 75 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$0.3248 \$1.6579 \$4.2534 \$11.0171 | Mcf Nov1/10 PGA W/Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1.681 \$1.8000 \$5.3882 \$17.6792 \$22,424.21 Mcf Mcf Nov1/10 PGA W/Proposed Demand Changes** \$4.2201 \$15.8792 \$0.3248 \$1.4000 \$4.5449 \$17.2792 | From Last Rate Case -51.50% -13.55% -6.06% -13.14% -45.22% -14.13% -45.25% ** Change From Last Rate Case -51.50% -18.35% -9.58% -9.44.39% -49.84% -47.21% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% 8.12% 41.83% 8.63% *Change From Last Demand Filing 12.84% -9.58% -15.56% 10.87% 43.39% | From Last PGA 7.42% 69.66% 0.00% -13.14% 5.72% 54.65% 6.38% % Change From Last PGA 7.42% 69.66% 0.00% -15.56% 6.85% 56.84% | \$ Change From Last PGA \$0.291\$ \$6.5200 \$0.0000 \$0.272\$ \$0.291\$ \$6.2476 \$1,345.3* \$1,189.12 \$163.00 \$ Change From Last PGA \$0.291\$ \$6.5200 \$0.0000 \$0.2575 \$0.291\$ \$6.6262 \$4,795.36 |
| Recovery Commodity Rate Demand Rate Comm. Margin SV Dem. Margin Total Commodity Cost Total Demand Cost Avg. Annual Bil Effect of proposed commo Effect of proposed demand S) Large Volume Firm: A Avg. An Recovery Commodity Rate Demand Rate Comm. Margin Total Commodity Cost Total Demand Cost | Avg. Annual Use: nual CD Volumes: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$1.2434 \$2.0724 \$9.9448 \$15.4901 \$40,959.25 dity change on average a Avg. Annual Use: nual CD Units: Base Cost of Gas Change G011/MR08-836^ \$8.7014 \$13.4177 \$0.3592 \$0.1658 \$9.0606 \$13.5835 \$135,487.13 dity change on average on | Demand Change M-08-XXXX \$5.9792 \$12.0195 \$1.2434 \$2.0724 \$7.2226 \$14.0919 \$29,818.48 e annual bills: annual bills: Demand Change M-08-XXXX \$5.9792 \$1.6579 \$0.3592 \$1.6579 \$6.3384 \$13.6774 \$95.094.00 e annual bills: | Change M-09-XXXX \$3.7399 \$10.3925 \$1.2434 \$2.0724 \$4.9833 \$12.4649 \$20,642.09 Last Demand Change M-09-XXXX \$3.7399 \$10.3925 \$0.3592 \$1.6579 \$4.0991 \$12.0504 | 25 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$1.1681 \$2.0724 \$5.0967 \$11.4316 \$21,078.90 14,841 75 Most Recent PGA Oct 1/10 \$3.9286 \$9.3592 \$0.3248 \$1.6579 \$4.2534 \$11.0171 | Mcf Nov1/10 PGA W/Proposed Demand Changes** \$4.2201 \$15.8792 \$1.1.681 \$1.8000 \$5.3882 \$17.6792 \$22,424.21 Mcf Mcf Nov1/10 PGA W/Proposed Demand Changes** \$4.2201 \$15.8792 \$0.3248 \$1.4000 \$4.5449 \$17.2792 | From Last Rate Case -51.50% -13.55% -6.06% -13.14% -45.22% -14.13% -45.25% ** Change From Last Rate Case -51.50% -18.35% -9.58% -9.44.39% -49.84% -47.21% | From Last Demand Filing 12.84% 52.79% -6.06% -13.14% 8.12% 41.83% 8.63% *Change From Last Demand Filing 12.84% -9.58% -15.56% 10.87% 43.39% | From Last PGA 7.42% 69.66% 0.00% -13.14% 5.72% 54.65% 6.38% % Change From Last PGA 7.42% 69.66% 0.00% -15.56% 6.85% 56.84% | \$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.272' \$0.291! \$6.247(\$1,345.3' \$1,189.1: \$163.0(\$ Change From Last PGA \$0.291! \$6.520(\$0.000(\$0.257' \$0.291! \$6.6262' |

^{**} Commodity includes Upstream cos

^ Implemented with Interim rates

^^ Interim rates implented on 10/1/08

| ···· intenin rates impiente | Commodity | Commodity | Commodity | Demand | Demand | Total | | Total |
|-----------------------------|--------------------|---------------------|---------------------|--------------------|---------------------|--------------------|-----|---------------------|
| Customer Class | Change (\$/Mcf) | Change (Percent) | Change (Percent) | Change (\$/Mcf) | Change (Percent) | Change (\$/Mcf) | | Change (Percent) |
| A.I. E. | 00.0045 | 7.400/ | 00.45% | 00.4400 | 40, 400/ | 0.7440 | | 44.000/ |
| All Firm | \$0.2915 | 7.42% | 29.15% | \$0.4498 | 43.40% | 0.7412 | | 11.00% |
| Sm Vol Inter. Service | \$0.2915 | 7.42% | 29.15% | \$0.0000 | 0.00% | 0.2915 | | 5.72% |
| Lrg Vol Inter. Service | \$0.2915 | 7.42% | 29.15% | \$0.0000 | 0.00% | 0.2915 | | 6.85% |
| Sm Vol Joint Service | \$0.2915 | 7.42% | 29.15% | \$6.5200 | 69.66% | 0.2915 | *** | 5.72% |
| Lrg Vol Joint Service | \$0.2915 | 7.42% | 29.15% | \$6.5200 | 69.66% | 0.2915 | *** | 6.85% |
| | | | | | | | | |

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

Change in Costs due to November 1, 2010 Change in Entitlement Levels and Related Demand Costs

| P-1-12 Max Rate | | Change i | n Costs due to Nov | ember 1, 2010 (| NNG | ent Leveis and Rei | ated Demand Co | SIS | | |
|--|---------------------------------|----------|--------------------|-----------------|-------------|--------------------|----------------|-------------|-------------|-------------|
| F-12-B (Max Rate) | | | Oct-10 | Nov-10 | | | Oct-10 | Oct-10 | Entitlement | Entitlement |
| FF-124 | | Contract | PGA | Entitlement | | Months | Rate/MCF | Total Cost | Total Cost | Change |
| FF-12 Max Rate | TF-12-B (Max Rate) | 112495 | 30,021 | 29,675 | (346) | 12 | \$ 7.5776 | \$2,729,840 | \$2,698,383 | (\$31,456) |
| FF-5 (Max Rate) | TF-12-B (Discount) | 112495 | 5,200 | 5,200 | , O | 12 | \$ 6.4818 | \$404,591 | \$404,464 | (\$127) |
| FF- Discount 112495 | TF-12-V (Max Rate) | 112495 | 24,583 | 32,290 | 7,707 | 12 | \$ 9.0926 | \$2,682,276 | \$3,523,201 | \$840,925 |
| FEX-12 (Max Rate) | TF-5 (Max Rate) | 112495 | 29,619 | 28,785 | (834) | 5 | \$ 15.1530 | \$2,244,084 | \$2,180,896 | (\$63,188) |
| FEX-12 (Discount) | TF-5 (Discount) | 112495 | 0 | 0 | 0 | 5 | \$ 7.6050 | \$0 | \$0 | \$0 |
| FEX-12 (Discount) | TFX-12 (Max Rate) | 112486 | 9,724 | 9,651 | (73) | 12 | \$ 9.6288 | \$1,123,569 | \$1,115,131 | (\$8,439) |
| FEX-5 Chiscount 111466 | TFX-12 (Discount) | 111866 | 414 | 1,144 | 730 | 12 | \$ 4.8640 | \$24,178 | \$66,773 | \$42,595 |
| FEX-5 (Max Rate) | TFX-12 (Discount) | 111866 | 9,140 | 7,376 | (1,764) | 12 | \$ 5.4720 | \$598,524 | \$484,338 | (\$114,186) |
| FEX-5 (Discount) | TFX-12 (Discount) | 111866 | 11,921 | 10,631 | (1,290) | 12 | \$ 2.2192 | \$317,633 | \$283,108 | (\$34,525) |
| FFX-5 (Discount) | TFX-5 (Max Rate) | 112486 | 48,754 | 51,163 | 2,409 | 5 | \$ 15.1530 | \$3,693,847 | \$3,876,365 | \$182,518 |
| FEX-5 (Discount) | TFX-5 (Discount) | 112486 | 0 | 0 | 0 | 5 | \$ 13.8736 | \$0 | \$0 | \$0 |
| FFX-5 (Discount) | TFX-5 (Discount) | 112486 | 1,800 | 1,605 | (195) | 5 | \$ 7.6050 | \$68,445 | \$61,030 | (\$7,415) |
| TFX-5 (Discount) | TFX-5 (Discount) | 111866 | 122 | 338 | 216 | 5 | \$ 4.8640 | \$2,969 | \$8,220 | \$5,251 |
| TFX-5 (Discount) | TFX-5 (Discount) | 111866 | 2,702 | 2,180 | (522) | 5 | \$ 5.4720 | \$73,724 | \$59,645 | (\$14,079) |
| TFX-5 (Discount) | TFX-5 (Discount) | 111866 | 22,189 | 19,788 | (2,401) | 5 | \$ 15.1392 | \$1,680,539 | \$1,497,872 | (\$182,667) |
| TFX of Ciscount | TFX-5 (Discount) | 112561 | | | | 5 | \$ 4.5600 | | | |
| TFX Apr (Max Rate) | TFX-7 (Discount) | 111866 | 0 | 0 | ` o´ | 7 | \$ 2.2192 | \$0 | \$0 | |
| SMS Charge | TFX Oct (Max Rate) | 112486 | 2,000 | 1,784 | (216) | 1 | \$ 5.6830 | \$11,366 | \$10,138 | (\$1,228) |
| SMS Charge | TFX Apr (Max Rate) | 112486 | 2,000 | 1,784 | (216) | 1 | \$ 5.6830 | \$11,366 | \$10,138 | (\$1,228) |
| LS Power 26,375 25,951 (424) 3 \$ 4.3463 \$343,903 \$338,369 (\$5,534) MINDOM 2,500 2,500 0 12 \$ - \$ \$0 \$ \$0 \$ \$0 \$ \$0 \$ \$0 \$ \$0 \$ \$0 | | | 20,577 | | | 12 | \$ 2.1800 | | | |
| WINDOM 2,500 2,500 2,500 0 12 \$ - \$0 \$0 \$0 \$0 \$0 \$18,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$8,183,865 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$1,25,246 \$2,25 | | | 26,375 | 25,951 | (424) | 3 | \$ 4.3463 | \$343,903 | \$338,369 | (\$5,534) |
| Bison | WINDOM | | | | | 12 | \$ - | | \$0 | |
| NBPL | | | | | 44.589 | | | | | |
| FDD: Storage Reservation | NBPL | | 0 | 44,589 | 44,589 | 10.5 | \$ 6.9920 | \$0 | \$3,273,546 | \$3,273,546 |
| FDD: Storage Reservation 5,035 4,949 (86) 12 \$ 3.3157 \$200,353 \$196,913 (\$3,440) FDD: Storage Cycle Volume 825,512 847,070 21,558 5 \$ 0.3567 \$1,472,301 \$1,510,749 \$38,449 FDD: Storage Cycle Volume 58,067 57,074 (993) 5 \$ 0.6901 \$200,359 \$196,913 (\$3,449) \$200,359 \$196,913 (\$3,459) \$100,0149 \$ | FDD: Storage Reservation | | 71.593 | , | | | | \$1,472,516 | | |
| FDD: Storage Cycle Volume S25,512 S47,070 Z1,558 5 \$ 0.3567 \$1,472,301 \$1,510,749 \$38,449 FDD: Storage Cycle Volume 58,067 57,074 (993) 5 \$ 0.6901 \$200,359 \$196,934 (\$3,425) \$20,031,484 \$32,142,118 \$12,110,634 \$12,0031,484 \$32,142,118 \$12,110,634 \$12,0031,484 \$32,142,118 \$12,110,634 \$12,0031,484 | | | , | , | , | | | | | |
| FDD: Storage Cycle Volume Total Demand Cost | FDD: Storage Cycle Volume | | 825,512 | 847,070 | 21,558 | | | \$1,472,301 | \$1,510,749 | \$38,449 |
| Costs Assigned In Commodity: Oct-10 PGA Nov-10 Entitlement Change Intitlement Change Oct-10 PGA Months Rate/MCF Cost Assigned In Cost Entitlement Total Cost Entitlement Change Great Lakes 0 0 0 12 \$3.458 \$0 \$0 \$0 Surcharges: 0 0 12 \$3.458 \$0 \$0 \$0 Storage 0 0 0 \$0 < | | | 58,067 | 57,074 | (993) | 5 | \$ 0.6901 | | \$196,934 | (\$3,425) |
| Upstream PGA Entitlement Change Months Rate/MCF Total Cost Total Cost Change Great Lakes 0 0 12 \$3.458 \$0 \$0 \$0 Surcharges: 0 0 \$0 < | | | | - ,- | (/ | | _ | | | |
| Upstream PGA Entitlement Change Months Rate/MCF Total Cost Total Cost Change Great Lakes 0 0 12 \$3.458 \$0 \$0 \$0 Surcharges: 0 0 \$0 < | | | | | | | = | | | |
| Great Lakes 0 0 12 \$3.458 \$0 \$0 \$0 Surcharges: 0 0 \$0 <td>Costs Assigned In Commodity:</td> <td></td> <td>Oct-10</td> <td>Nov-10</td> <td>Entitlement</td> <td></td> <td>Oct-10</td> <td>Oct-10</td> <td>Entitlement</td> <td>Entitlement</td> | Costs Assigned In Commodity: | | Oct-10 | Nov-10 | Entitlement | | Oct-10 | Oct-10 | Entitlement | Entitlement |
| Surcharges: 0 \$0 | <u>Upstream</u> | | PGA | Entitlement | Change | | | | | |
| Surcharges: 0 \$0 | Great Lakes | | 0 | 0 | 0 | 12 | \$3.458 | \$0 | \$0 | \$0 |
| Storage 0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 | | | | | 0 | | | | \$0 | \$0 |
| Storage 0 \$0 \$0 \$0 FDD Withdrawal 4,417,893 4,520,719 102,826 1 \$0.0149 \$65,827 \$67,359 \$1,532 FDD Injection 4,417,893 4,520,719 102,826 1 \$0.0149 \$65,827 \$67,359 \$1,532 SO \$0 \$0 \$0 \$0 \$0 Producer Demand Payments/Option Premium \$2,672,469 \$1,876,399 (\$796,070) | Surcharges: | | | | 0 | | | | \$0 | \$0 |
| FDD Withdrawal 4,417,893 4,520,719 102,826 1 \$0.0149 \$65,827 \$67,359 \$1,532 FDD Injection 4,417,893 4,520,719 102,826 1 \$0.0149 \$65,827 \$67,359 \$1,532 \$0.0149 \$65,827 \$67,359 \$1,532 \$0.0149 | | | | | 0 | | | | \$0 | \$0 |
| FDD Injection 4,417,893 4,520,719 102,826 1 \$0.0149 \$65,827 \$67,359 \$1,532 \$0 \$0 \$0 \$0 \$0 \$0 \$0 Producer Demand Payments/Option Premium \$2,672,469 \$1,876,399 (\$796,070) \$1,876,370 | <u>Storage</u> | | | | 0 | | | | \$0 | \$0 |
| \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$ | FDD Withdrawal | | 4,417,893 | 4,520,719 | 102,826 | 1 | \$0.0149 | \$65,827 | \$67,359 | \$1,532 |
| \$0 \$0 Producer Demand Payments/Option Premium \$2,672,469 \$1,876,399 (\$796,070) | FDD Injection | | 4,417,893 | 4,520,719 | 102,826 | 1 | \$0.0149 | \$65,827 | \$67,359 | \$1,532 |
| Producer Demand Payments/Option Premium \$2,672,469 \$1,876,399 (\$796,070) | - | | | | | | | | \$0 | \$0 |
| | | | | | | | | | \$0 | \$0 |
| Total Commodity Costs \$2,804,122 \$2,011,117 (\$793,005) | Producer Demand Payments/Option | Premium | | | | | | \$2,672,469 | \$1,876,399 | (\$796,070) |
| | Total Commodity Costs | | | | | | _ | \$2,804,122 | \$2,011,117 | (\$793,005) |

MINNESOTA ENERGY RESOURCES - PNG
Daily Total Throughput Data - July 1, 2009 through June 30, 2010
NNG

| Base | 30,580 |
|----------|--------|
| Variable | 2,337 |

| | | | | l | variable | 2,007 |
|---------|-------------------------------------|--|--|--|--------------------------------------|---------------------------------|
| Date | 3.46% Cloquet Adjusted HDD | 32.86% Minneapolis Adjusted HDD | 63.68% Rochester Adjusted HDD | 100.00% Weighted Adjusted HDD | Actual Total Through- Put * | Estimated Through- Put ** |
| 7/1/09 | 10 | 1 | 7 | 5 | 35,372 | 41,898 |
| 7/1/09 | 8 | 0 | 0 | 0 | 32,412 | 31,259 |
| 7/3/09 | 3 | 0 | 0 | 0 | 28,159 | 30,835 |
| 7/4/09 | 3 | 0 | 0 | 0 | 26,730 | 30,837 |
| 7/4/09 | 3 | 0 | 0 | 0 | 30,652 | 30,842 |
| 7/6/09 | 4 | 0 | 0 | 0 | 39,321 | 30,923 |
| 7/7/09 | 6 | 0 | 0 | 0 | 38,299 | 31,089 |
| 7/8/09 | 7 | 0 | 4 | 3 | 35,012 | 37,793 |
| 7/9/09 | 0 | 0 | 0 | 0 | 36,389 | 30,580 |
| 7/10/09 | 0 | 0 | 0 | 0 | 35,593 | 30,580 |
| 7/11/09 | 7 | 0 | 0 | 0 | 28,552 | 31,114 |
| 7/11/09 | 7 | 0 | 0 | 0 | 29,826 | 31,114 |
| 7/13/09 | 4 | 0 | 0 | 0 | 34,950 | 30,913 |
| 7/14/09 | 7 | 0 | 0 | 0 | 36,895 | 31,109 |
| 7/15/09 | 9 | 0 | 1 | 1 | 35,933 | 32,971 |
| 7/16/09 | 14 | 1 | 5 | 4 | 36,847 | 39,475 |
| 7/17/09 | 12 | 6 | 8 | 7 | 34,430 | 47,517 |
| 7/18/09 | 14 | 4 | 10 | 8 | 31,135 | 49,385 |
| 7/19/09 | 6 | Ö | 4 | 3 | 31,347 | 37,320 |
| 7/20/09 | 0 | Ö | 0 | 0 | 34,810 | 30,580 |
| 7/21/09 | 4 | Ö | 1 | 1 | 35,711 | 32,476 |
| 7/22/09 | 4 | Ö | o O | 0 | 36,133 | 30,916 |
| 7/23/09 | 0 | Ö | 0 | 0 | 35,927 | 30,580 |
| 7/24/09 | Õ | Ö | Ö | 0 | 32,834 | 30,580 |
| 7/25/09 | 2 | Ö | Ö | 0 | 28,980 | 30,756 |
| 7/26/09 | 0 | Ō | Ö | Ō | 30,789 | 30,580 |
| 7/27/09 | 0 | 0 | 0 | 0 | 40,415 | 30,580 |
| 7/28/09 | 9 | Ö | 3 | 2 | 38,241 | 36,247 |
| 7/29/09 | 4 | 0 | 0 | 0 | 36,442 | 30,923 |
| 7/30/09 | 9 | 0 | 4 | 3 | 36,598 | 37,818 |
| 7/31/09 | 2 | 0 | 0 | 0 | 32,016 | 30,758 |
| 8/1/09 | 11 | 1 | 6 | 4 | 31,230 | 40,589 |
| 8/2/09 | 8 | 0 | 0 | 0 | 31,932 | 31,233 |
| 8/3/09 | 4 | 0 | 0 | 0 | 34,277 | 30,929 |
| 8/4/09 | 8 | 0 | 2 | 2 | 35,898 | 34,382 |
| 8/5/09 | 8 | 0 | 0 | 0 | 35,710 | 31,266 |
| 8/6/09 | 2 | 0 | 0 | 0 | 33,746 | 30,747 |
| 8/7/09 | 5 | 0 | 0 | 0 | 31,960 | 31,009 |
| 8/8/09 | 3 | 0 | 0 | 0 | 28,922 | 30,832 |
| 8/9/09 | 1 | 0 | 0 | 0 | 31,611 | 30,666 |
| 8/10/09 | 1 | 0 | 0 | 0 | 41,042 | 30,665 |
| 8/11/09 | 0 | 0 | 0 | 0 | 39,316 | 30,580 |
| 8/12/09 | 0 | 0 | 0 | 0 | 43,032 | 30,580 |
| 8/13/09 | 0 | 0 | 0 | 0 | 37,421 | 30,580 |
| 8/14/09 | 0 | 0 | 0 | 0 | 32,483 | 30,580 |
| 8/15/09 | 0 | 0 | 0 | 0 | 33,116 | 30,580 |
| 8/16/09 | 0 | 0 | 0 | 0 | 31,943 | 30,580 |
| 8/17/09 | 3 | 0 | 1 | 1 | 37,039 | 32,439 |
| 8/18/09 | 4 | 0 | 0 | 0 | 36,905 | 30,926 |
| | | | | | | |

| 9/26/09 | 5 | 0 | 2 | 2 | 33,443 | 34,257 |
|----------|----|----|----|----|---------|---------|
| 9/27/09 | 12 | 5 | 7 | 6 | 37,522 | 45,710 |
| 9/28/09 | 22 | 19 | 19 | 19 | 53,154 | 75,058 |
| | | | | | | |
| 9/29/09 | 25 | 19 | 20 | 20 | 54,356 | 76,706 |
| 9/30/09 | 24 | 16 | 15 | 15 | 51,916 | 66,745 |
| 10/1/09 | 22 | 19 | 18 | 18 | 63,750 | 73,775 |
| 10/2/09 | 25 | 20 | 19 | 19 | 62,626 | 75,786 |
| 10/3/09 | 21 | 18 | 20 | 19 | 61,162 | 75,860 |
| 10/4/09 | 22 | 19 | 22 | 21 | 65,007 | 80,351 |
| 10/5/09 | 20 | 19 | 20 | 20 | 69,988 | 76,932 |
| | 28 | 24 | | | | |
| 10/6/09 | | | 25 | 25 | 79,915 | 88,104 |
| 10/7/09 | 23 | 14 | 13 | 14 | 69,352 | 63,074 |
| 10/8/09 | 31 | 27 | 26 | 27 | 86,588 | 92,906 |
| 10/9/09 | 35 | 31 | 31 | 31 | 90,493 | 102,890 |
| 10/10/09 | 42 | 37 | 37 | 37 | 100,141 | 116,633 |
| 10/11/09 | 34 | 32 | 32 | 32 | 92,381 | 105,525 |
| 10/12/09 | 40 | 35 | 36 | 36 | 114,505 | 113,850 |
| 10/13/09 | 35 | 31 | 33 | 32 | 106,438 | 106,300 |
| 10/14/09 | 33 | 29 | 29 | 29 | 101,109 | 99,172 |
| | | | | | | |
| 10/15/09 | 32 | 30 | 33 | 32 | 93,467 | 105,293 |
| 10/16/09 | 33 | 27 | 27 | 27 | 82,952 | 94,605 |
| 10/17/09 | 29 | 24 | 26 | 26 | 76,289 | 90,191 |
| 10/18/09 | 21 | 14 | 19 | 17 | 62,217 | 70,873 |
| 10/19/09 | 23 | 13 | 10 | 11 | 63,591 | 56,698 |
| 10/20/09 | 26 | 17 | 15 | 16 | 70,035 | 68,076 |
| 10/21/09 | 35 | 26 | 24 | 25 | 86,584 | 88,159 |
| 10/21/03 | 34 | 29 | 29 | 29 | 95,420 | 99,404 |
| | | | | | | |
| 10/23/09 | 35 | 32 | 34 | 33 | 97,523 | 108,151 |
| 10/24/09 | 28 | 24 | 24 | 24 | 67,698 | 86,605 |
| 10/25/09 | 29 | 21 | 21 | 22 | 75,527 | 80,900 |
| 10/26/09 | 32 | 24 | 29 | 27 | 96,051 | 94,233 |
| 10/27/09 | 23 | 20 | 23 | 22 | 89,817 | 82,187 |
| 10/28/09 | 26 | 19 | 18 | 18 | 87,402 | 73,604 |
| 10/29/09 | 20 | 12 | 9 | 11 | 75,464 | 55,277 |
| 10/30/09 | 25 | 20 | 22 | 21 | 83,876 | 80,313 |
| 10/31/09 | 34 | 28 | 30 | 29 | 98,605 | 98,667 |
| | | | | | | |
| 11/1/09 | 32 | 19 | 19 | 19 | 83,348 | 76,138 |
| 11/2/09 | 37 | 29 | 30 | 30 | 114,909 | 100,570 |
| 11/3/09 | 32 | 26 | 28 | 27 | 114,375 | 94,202 |
| 11/4/09 | 34 | 30 | 31 | 31 | 119,997 | 102,193 |
| 11/5/09 | 31 | 23 | 20 | 22 | 96,093 | 80,968 |
| 11/6/09 | 20 | 12 | 13 | 13 | 66,231 | 60,585 |
| 11/7/09 | 21 | 13 | 11 | 12 | 70,835 | 58,208 |
| 11/8/09 | 27 | 15 | 13 | 14 | 72,341 | 64,248 |
| 11/9/09 | 27 | 20 | 18 | 19 | 93,990 | 74,316 |
| 11/10/09 | 20 | 15 | 19 | 18 | | |
| | | | | | 95,805 | 72,628 |
| 11/11/09 | 20 | 17 | 19 | 19 | 97,497 | 73,909 |
| 11/12/09 | 20 | 17 | 22 | 20 | 96,637 | 77,343 |
| 11/13/09 | 22 | 18 | 18 | 18 | 88,544 | 72,632 |
| 11/14/09 | 36 | 29 | 31 | 30 | 109,937 | 101,304 |
| 11/15/09 | 34 | 27 | 30 | 29 | 115,641 | 98,201 |
| 11/16/09 | 33 | 28 | 27 | 28 | 123,697 | 95,158 |
| 11/17/09 | 32 | 28 | 26 | 27 | 123,418 | 93,632 |
| 11/18/09 | 29 | 23 | 22 | 23 | 105,959 | 83,343 |
| | | | | | | |
| 11/19/09 | 25 | 22 | 22 | 22 | 104,578 | 82,952 |
| 11/20/09 | 32 | 24 | 24 | 24 | 105,888 | 86,538 |
| 11/21/09 | 30 | 25 | 27 | 26 | 95,526 | 92,434 |
| 11/22/09 | 20 | 13 | 13 | 13 | 81,709 | 62,091 |
| 11/23/09 | 23 | 19 | 18 | 18 | 92,649 | 73,090 |
| 11/24/09 | 27 | 24 | 22 | 23 | 97,490 | 83,932 |
| 11/25/09 | 39 | 33 | 33 | 33 | 113,145 | 107,856 |
| 11/26/09 | 43 | 38 | 41 | 40 | 116.671 | 123.969 |
| 11/20/03 | 70 | 50 | 71 | 70 | 110.071 | 120.000 |

| 1/3/10 | 82 | 70 | 75 | 73 | 196,587 | 202,116 |
|---------|----------|----------|----|----|---------|---------|
| 1/4/10 | 75 | 71 | 79 | 76 | 202,423 | 208,472 |
| 1/5/10 | 68 | 64 | 73 | 70 | 190,900 | 194,723 |
| 1/6/10 | 65 | 60 | 63 | 62 | 173,170 | 175,494 |
| 1/7/10 | 75 | 70 | 74 | 73 | 184,301 | 200,379 |
| 1/8/10 | 74 | 72 | 80 | 77 | 186,939 | 210,559 |
| 1/9/10 | 69 | 72 | 78 | 76 | 182,132 | 207,765 |
| 1/10/10 | 61 | 57 | 63 | 61 | | 173,601 |
| | | | | | 158,817 | |
| 1/11/10 | 56 | 56 | 60 | 58 | 161,541 | 167,031 |
| 1/12/10 | 55 | 55 | 60 | 58 | 151,445 | 166,086 |
| 1/13/10 | 48 | 46 | 47 | 47 | 128,045 | 139,445 |
| 1/14/10 | 52 | 44 | 46 | 46 | 127,180 | 137,255 |
| 1/15/10 | 54 | 45 | 48 | 47 | 126,702 | 140,470 |
| 1/16/10 | 41 | 41 | 48 | 46 | 113,720 | 137,494 |
| 1/17/10 | 38 | 41 | 49 | 46 | 121,130 | 137,561 |
| 1/18/10 | 44 | 43 | 50 | 48 | 143,985 | 142,372 |
| 1/19/10 | 51 | 48 | 51 | 50 | 144,758 | 147,765 |
| 1/20/10 | 50 | 45 | 47 | 47 | 129,622 | 139,477 |
| 1/21/10 | 45 | 40 | 40 | 40 | 118,984 | 124,900 |
| 1/22/10 | 40 | 38 | 41 | 40 | 111,667 | 123,926 |
| 1/23/10 | 36 | 34 | 35 | 35 | 99,319 | 111,780 |
| 1/24/10 | 43 | 40 | 43 | 42 | 110,722 | 128,767 |
| 1/25/10 | 62 | 58 | 60 | 59 | 154,749 | 169,099 |
| 1/26/10 | 70 | 64 | 70 | 68 | 177,600 | 189,240 |
| 1/27/10 | 78 | 68 | 73 | 71 | 183,473 | 197,418 |
| 1/28/10 | 77 | 67 | 72 | 70 | | |
| | 72 | | | | 189,826 | 194,640 |
| 1/29/10 | | 64 57 | 66 | 66 | 173,394 | 184,001 |
| 1/30/10 | 70 | 57 | 62 | 60 | 153,223 | 171,807 |
| 1/31/10 | 71 | 57 | 60 | 59 | 158,350 | 169,005 |
| 2/1/10 | 64 | 56 | 54 | 55 | 154,645 | 159,118 |
| 2/2/10 | 63 | 56 | 61 | 59 | 156,112 | 169,628 |
| 2/3/10 | 58 | 55 | 59 | 57 | 142,206 | 164,806 |
| 2/4/10 | 45 | 42 | 42 | 42 | 120,720 | 128,433 |
| 2/5/10 | 47 | 40 | 44 | 43 | 112,560 | 130,359 |
| 2/6/10 | 48 | 48 | 49 | 49 | 120,113 | 144,374 |
| 2/7/10 | 50 | 50 | 53 | 52 | 126,622 | 152,340 |
| 2/8/10 | 52 | 47 | 49 | 49 | 138,800 | 144,196 |
| 2/9/10 | 60 | 55 | 61 | 59 | 145,270 | 169,159 |
| 2/10/10 | 60 | 55 | 66 | 62 | 157,460 | 176,283 |
| 2/11/10 | 57 | 51 | 59 | 56 | 146,665 | 161,352 |
| 2/12/10 | 57 | 50 | 57 | 55 | 138,047 | 159,044 |
| 2/13/10 | 53 | 51 | 61 | 58 | 139,169 | 165,558 |
| 2/14/10 | 58 | 53 | 60 | 58 | 134,862 | 165,571 |
| 2/15/10 | 52 | 46 | 50 | 49 | 134,116 | 145,233 |
| 2/16/10 | 48 | 44 | 49 | 48 | 126,246 | 141,621 |
| 2/17/10 | 45 | 44 | 56 | 52 | 129,164 | 151,453 |
| 2/18/10 | 45 | 45 | 55 | 51 | 135,113 | 149,629 |
| 2/19/10 | 44 | 46 | 49 | 48 | 119,796 | |
| | 45 45 | 42 | | 47 | | 142,165 |
| 2/20/10 | | | 50 | | 117,403 | 141,516 |
| 2/21/10 | 46 | 42 | 53 | 49 | 123,984 | 146,039 |
| 2/22/10 | 49 | 48 | 56 | 53 | 133,847 | 154,094 |
| 2/23/10 | 66 | 60 | 67 | 64 | 160,942 | 181,181 |
| 2/24/10 | 62 | 55 | 63 | 61 | 162,707 | 172,024 |
| 2/25/10 | 60 | 51 | 55 | 53 | 147,851 | 155,494 |
| 2/26/10 | 47 | 46 | 54 | 51 | 130,694 | 149,742 |
| 2/27/10 | 41 | 40 | 48 | 45 | 112,978 | 136,180 |
| 2/28/10 | 46 | 38 | 44 | 42 | 109,006 | 128,194 |
| 3/1/10 | 43 | 37 | 46 | 43 | 114,458 | 130,926 |
| 3/2/10 | 38 | 34 | 43 | 40 | 109,799 | 123,002 |
| 3/3/10 | 37 | 35 | 43 | 40 | 110,146 | 124,167 |
| 3/4/10 | 37 | 36 | 44 | 41 | 105,348 | 125,998 |
| 3/5/10 | 33 | 34 | 42 | 39 | 97.568 | 121.413 |
| | | | | | _ | |

| 4/12/10 | 21 | 9 | 11 | 11 | 45,745 | 55,998 |
|---------|----|----|----|----|--------|--------|
| 4/13/10 | 26 | 7 | 5 | 6 | 38,388 | 45,124 |
| 4/14/10 | 17 | 0 | 0 | 1 | 35,028 | 31,926 |
| 4/15/10 | 12 | 7 | 7 | 7 | 38,144 | 47,175 |
| 4/16/10 | 23 | 17 | 20 | 19 | 45,616 | 74,535 |
| 4/17/10 | 22 | 14 | 16 | 15 | 42,407 | 66,106 |
| 4/18/10 | 22 | 9 | 12 | 11 | 40,159 | 56,998 |
| 4/19/10 | 21 | 7 | 13 | 11 | 41,326 | 56,712 |
| 4/20/10 | 16 | 7 | 7 | 8 | 40,604 | 48,369 |
| 4/21/10 | 33 | 17 | 15 | 16 | 46,244 | 69,119 |
| 4/22/10 | 22 | 10 | 9 | 10 | 41,180 | 53,120 |
| 4/23/10 | 8 | 7 | 8 | 8 | 36,693 | 48,811 |
| 4/24/10 | 22 | 12 | 10 | 11 | 35,553 | 57,357 |
| 4/25/10 | 25 | 13 | 16 | 16 | 46,681 | 67,133 |
| 4/26/10 | 24 | 15 | 18 | 17 | 52,021 | 70,412 |
| 4/27/10 | 26 | 15 | 21 | 19 | 59,510 | 75,413 |
| 4/28/10 | 19 | 5 | 5 | 5 | 49,055 | 42,559 |
| 4/29/10 | 22 | 0 | 0 | 1 | 40,877 | 32,359 |
| 4/30/10 | 18 | 7 | 8 | 8 | 35,187 | 49,190 |
| 5/1/10 | 19 | 10 | 13 | 12 | 35,071 | 58,986 |
| 5/2/10 | 18 | 10 | 11 | 11 | 39,137 | 56,735 |
| 5/3/10 | 27 | 17 | 16 | 16 | 49,831 | 69,017 |
| 5/4/10 | 21 | 2 | 1 | 2 | 43,472 | 35,746 |
| 5/5/10 | 26 | 20 | 18 | 19 | 52,112 | 74,830 |
| 5/6/10 | 23 | 17 | 16 | 17 | 50,346 | 69,253 |
| 5/7/10 | 36 | 27 | 27 | 27 | 65,251 | 94,296 |
| 5/8/10 | 30 | 24 | 27 | 26 | 60,141 | 91,393 |
| 5/9/10 | 22 | 14 | 17 | 16 | 47,970 | 68,151 |
| 5/10/10 | 20 | 19 | 21 | 20 | 59,900 | 77,032 |
| 5/11/10 | 26 | 23 | 24 | 24 | 70,306 | 86,288 |
| 5/12/10 | 20 | 19 | 21 | 20 | 63,849 | 77,108 |
| 5/13/10 | 25 | 17 | 19 | 18 | 58,220 | 72,996 |
| 5/14/10 | 20 | 6 | 8 | 8 | 37,908 | 48,598 |
| 5/15/10 | 12 | 1 | 7 | 5 | 30,580 | 43,403 |
| 5/16/10 | 6 | 1 | 5 | 4 | 32,436 | 40,000 |
| 5/17/10 | 10 | 0 | 3 | 2 | 35,565 | 36,109 |
| 5/18/10 | 9 | 2 | 5 | 4 | 37,258 | 40,733 |
| 5/19/10 | 5 | 0 | 0 | 0 | 37,534 | 31,005 |
| 5/20/10 | 6 | 0 | 0 | 0 | 36,007 | 31,094 |
| 5/21/10 | 11 | 4 | 6 | 6 | 32,741 | 44,368 |
| 5/22/10 | 6 | 0 | 0 | 0 | 29,178 | 31,104 |
| 5/23/10 | 0 | 0 | 0 | 0 | 31,178 | 30,580 |
| 5/24/10 | 5 | 0 | 0 | 0 | 41,115 | 31,009 |
| 5/25/10 | 0 | 0 | 0 | 0 | 37,201 | 30,580 |
| 5/26/10 | 6 | 0 | 0 | 0 | 36,531 | 31,094 |
| 5/27/10 | 2 | 0 | 0 | 0 | 35,112 | 30,745 |
| 5/28/10 | 6 | 0 | 0 | 0 | 29,639 | 31,089 |
| 5/29/10 | 2 | 0 | 0 | 0 | 25,553 | 30,751 |
| 5/30/10 | 7 | 0 | 0 | 0 | 25,339 | 31,180 |
| 5/31/10 | 2 | 0 | 0 | 0 | 30,154 | 30,751 |
| 6/1/10 | 8 | 0 | 0 | 0 | 35,196 | 31,191 |
| 6/2/10 | 13 | 2 | 5 | 5 | 36,636 | 41,137 |
| 6/3/10 | 3 | 0 | 0 | 0 | 35,540 | 30,832 |
| 6/4/10 | 7 | 0 | 0 | 0 | 31,659 | 31,163 |
| 6/5/10 | 7 | 2 | 0 | 1 | 28,701 | 32,787 |
| 6/6/10 | 19 | 0 | 3 | 3 | 30,513 | 36,856 |
| 6/7/10 | 5 | 0 | 0 | 0 | 34,232 | 31,005 |
| 6/8/10 | 13 | 0 | 1 | 1 | 38,326 | 33,270 |
| 6/9/10 | 11 | 0 | 1 | 1 | 31,920 | 33,151 |
| 6/10/10 | 13 | 2 | 2 | 3 | 38,004 | 36,707 |
| 6/11/10 | 13 | 0 | 0 | 0 | 35,395 | 31,638 |
| 6/12/10 | 10 | 6 | 3 | 5 | 31.476 | 41.111 |

Customer Counts by PGAC Class - July 1, 2009 through June 30, 2010

| | Tariff | Jul-09 | Aug-09 | Sep-09 | Oct-09 | Nov-09 | Dec-09 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 |
|----------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Rate | Rate | Average |
| Class | Designation | Customers |
| Residential w/ Heat | MN001/007/008 | 141,945 | 141,177 | 141,270 | 141,649 | 142,733 | 143,117 | 143,734 | 144,154 | 143,668 | 143,852 | 143,785 | 143,669 |
| Residential w/o Heat | | 952 | 934 | 937 | 943 | 951 | 963 | 955 | 969 | 962 | 962 | 970 | 952 |
| | MN050/053/054/ | | | | | | | | | | | | |
| Commercial-SV | 070/076/078 | 5,969 | 5,905 | 5,900 | 5,896 | 5,964 | 6,023 | 6,066 | 6,060 | 6,050 | 6,059 | 6,465 | 6,419 |
| | MN056/060/063/ | | | | | | | | | | | | |
| | 064/065/071/077 | 7,744 | 7,721 | 7,691 | 7,702 | 7,779 | 7,751 | 7,900 | 7,855 | 7,835 | 7,863 | 7,374 | 7,340 |
| SV-Joint | MN104 | 0 | 0 | 0 | 0 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| SV-Interruptible | MN125/128/135 | 341 | 338 | 338 | 341 | 338 | 349 | 341 | 337 | 342 | 340 | 270 | 332 |
| LV-Interruptible | MN200/201/207 | 40 | 41 | 39 | 39 | 41 | 39 | 39 | 37 | 38 | 38 | 36 | 36 |
| LV-Interruptible-ML | MN220/221 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN590 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN509/514/589 | 3 | 3 | 4 | 3 | 4 | 7 | 8 | 7 | 7 | 7 | 6 | 5 |
| Transport | MN518 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN502/507/82L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Transport | MN500/574/81L | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | MN501/506/522/ | | | | | | | | | | | | |
| Transport | 523/80L | 15 | 24 | 15 | 14 | 15 | 15 | 15 | 18 | 16 | 16 | 18 | 18 |
| Transport | MN/504/505/539 | 12 | 13 | 13 | 13 | 13 | 13 | 25 | 12 | 17 | 18 | 13 | 13 |
| 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 | | 157,021 | 156,156 | 156,207 | 156,600 | 157,841 | 158,278 | 159,084 | 159,450 | 158,936 | 159,156 | 158,938 | 158,785 |

10.791

27,009

8,627

2,169

2,604

3,287

200 000

52.837

132,092

211,348

52,837

105,674

132,092

£ 4.000.075 £

159,101 \$ 4.1429 \$

219,974 \$ 4.1429 \$

55,006 \$ 4.1429 \$

108,278 \$ 4.1429 \$

135,380 \$ 4.1429 \$

0.004.700

MINNESOTA ENERGY RESOURCES - PNG

Projected Fixed Cost - November 2009 through March 2010

Futures Contracts WACOG

NNG-PNG

Fixed Price Nov-10 Dec-10 Jan-11 Purchase Financial Purchase NNG Over/(Under) Financial NNG Financial Purchase Total NNG Indexes Over/(Under) ourchase Total NNG Indexes Purchase Purchase Total NNG Indexes Over/(Under) Volume Market Date Price Cost Indexes Cost Market Date Volume Price Cost Indexes Cost Date Volume Price Cost Indexes Cost Market 05/18/10 103,846 \$ 4.9860 \$ 517,777 \$ 3.4398 \$ 357,209 \$ 160,568 05/20/10 5,750 \$ 5.1600 \$ 29,670 \$ 3.9575 \$ 22,756 6,914 05/21/10 63,768 \$ 5.3350 \$ 340,203 \$ 4.1429 \$ 264,185 76,018 06/18/10 13.846 \$ 5.4020 \$ 74.797 \$ 3.4398 \$ 47.628 27.169 05/20/10 5.750 \$ 5.1610 \$ 29.676 \$ 3.9575 22.756 6.920 05/21/10 6.377 \$ 5.3370 34.033 \$ 4.1429 \$ 26.418 7.615 06/18/10 96,923 \$ 5.4040 \$ 523,772 \$ 3.4398 \$ 333,395 190,377 05/20/10 11,500 \$ 5.1620 \$ 59,363 \$ 3.9575 \$ 45,511 \$ 13,852 06/28/10 6,377 \$ 5.6450 35,997 \$ 4.1429 \$ 26,418 9,579 07/08/10 96,923 \$ 4.8260 \$ 467,751 \$ 3.4398 \$ 333,395 134,356 \$ 5.1630 \$ 29,687 \$ 3.9575 22,756 \$ 06/28/10 25,507 \$ 5.6460 144,014 \$ 4.1429 \$ 105,674 38,340 05/20/10 5,750 \$ 6.932 \$ 08/05/10 83,077 \$ 4.8000 \$ 398,769 \$ 3.4398 \$ 285,767 \$ 113,002 05/20/10 23,000 \$ 5.1640 \$ 118,772 \$ 3.9575 \$ 91,023 \$ 27,749 06/28/10 63,768 \$ 5.6490 \$ 360,226 \$ 4.1429 \$ 264,185 96,041 76,154 \$ 3.8710 \$ 294,792 \$ 3.4398 \$ 261,953 63,250 \$ 5.2840 \$ 09/27/10 32,838 06/29/10 334,213 \$ 3.9575 \$ 250,313 \$ 83,900 07/29/10 38,261 \$ 5.2910 202,438 \$ 4.1429 \$ 158,511 43,927 40,250 \$ 5.1650 \$ 6,377 \$ 5.2920 10/05/10 20,769 \$ 3.7240 \$ 77,345 \$ 3.4398 \$ 71,442 5,903 07/29/10 207,891 \$ 3.9575 \$ 159,290 \$ 48,601 07/29/10 33,746 \$ 4.1429 26,418 7,328 28,750 \$ 4.9940 \$ 10/05/10 48,462 \$ 3.7250 \$ 180,519 \$ 3.4398 \$ 166,698 \$ 13,822 08/06/10 143,578 \$ 3.9575 \$ 113,779 \$ 29,799 07/29/10 6,377 \$ 5.2930 33,752 \$ 4.1429 \$ 26,418 \$ 7,334 09/14/10 23,000 \$ 4.3490 \$ 100,027 \$ 3.9575 \$ 91,023 \$ 9,004 07/29/10 31,884 \$ 5.2940 \$ 168,794 \$ 4.1429 \$ 132,092 36,702 23,000 \$ 4.0600 \$ 93.380 \$ 3.9575 \$ 91.023 \$ 19,130 \$ 4.9870 \$ 95.403 \$ 4.1429 \$ 79.255 10/07/10 2.357 08/10/10 16.148 08/10/10 6,377 \$ 4.9880 31,808 \$ 4.1429 26,418 5,389 63,628 \$ 4.1429 \$

12.754 \$ 4.9890

12,754

440.000

31,884 \$ 4.9900 \$

51,014 \$ 4.3120 \$

25,507 \$ 4.2450 \$

31,884 \$ 4.2460 \$

\$ 4.3130

08/10/10 08/10/10

09/27/10

09/27/10

10/07/10

10/07/10

226 027

010 220 €

| lotal | 540,000 | | \$ 2,535,522 | | \$ 1,857,487 | | | 230,000 | | \$ 1,146,257 | | \$ 910,230 | | | 440,000 | | \$ 2,221,783 | | \$ 1,822,875 | |
|----------|---------|-----------|-----------------|-----------|-----------------|------------|----------|----------|-----------------|--------------|-----------|--------------|--------------|---|-----------|-----------|--------------------|-----------|--------------|--------------|
| WACOG | | | \$ 4.6954 | | \$ 3.4398 | \$ 1.2556 | | | | \$ 4.9837 | | \$ 3.9575 | \$ 1.0262 | | | | \$ 5.0495 | | \$ 4.1429 | \$ 0.9066 |
| | | | | | | 28 | | | | | | | 3′ | 1 | | | | | | |
| | | | | eb-10 | | | | | | Mar-11 | | | | | | | Total | | | |
| Purchase | , | Purchase | Total | NNG | NNG Indexes | , , | | Physical | Purchase | Total | NNG | NNG Indexes | Over/(Under) | | Financial | Purchase | Total | NNG | NNG Indexes | Over/(Under) |
| Date | Volume | Price | Cost | Indexes | Cost | Market | Date | Volume | Price | Cost | Indexes | Cost | Market | | Volume | Price | Cost | Indexes | Cost | Market |
| 05/04/40 | 44.050 | A 5.0550 | 6 50 110 | A 44700 | # 47.000 | 40.000 | 05/44/40 | 00 004 | 6 5 4050 | | ® 4.0500 | | A 400 705 | | 074 500 | 0 50450 | 6 4 400 005 | A 0.0450 | A 4 055 474 | |
| 05/24/10 | | \$ 5.2550 | | \$ 4.1796 | | | 05/14/10 | | \$ 5.4850 | | \$ 4.0526 | | | | 274,508 | | | \$ 3.8450 | | \$ 384,364 |
| 05/24/10 | | \$ 5.2560 | | \$ 4.1796 | | | 05/14/10 | | \$ 5.4880 | | \$ 4.0526 | | | | 52,343 | \$ 5.3860 | | \$ 3.9047 | | |
| 05/24/10 | | \$ 5.2570 | | \$ 4.1796 | | | 06/21/10 | | \$ 5.5150 | | \$ 4.0526 | | | | 268,683 | | | | | |
| 06/10/10 | | \$ 5.5990 | | \$ 4.1796 | | | | | \$ 5.1410 | | \$ 4.0526 | | | | 234,124 | \$ 5.1652 | | | | |
| 07/29/10 | | \$ 5.2390 | | \$ 4.1796 | | | 07/29/10 | | \$ 5.1420 | | \$ 4.0526 | | | | | \$ 5.1702 | | | | |
| 08/09/10 | | \$ 4.9990 | | \$ 4.1796 | | | 08/19/10 | 13,830 | | | \$ 4.0526 | | * | | 213,995 | \$ 4.7152 | | | | |
| 09/29/10 | | \$ 4.3150 | | \$ 4.1796 | | | 08/19/10 | 13,830 | | | \$ 4.0526 | | | | 98,101 | \$ 4.6577 | | | | |
| 10/07/10 | 16,875 | \$ 4.2630 | \$ 71,938 | \$ 4.1796 | \$ 70,530 | \$ 1,408 | 08/19/10 | 76,064 | \$ 4.7100 | \$ 358,261 | \$ 4.0526 | \$ 308,255 | \$ 50,006 | | 176,527 | \$ 4.4642 | \$ 788,048 | \$ 3.8843 | \$ 685,680 | \$ 102,368 |
| | | | | | | | 09/27/10 | 89,894 | \$ 4.2640 | \$ 383,306 | \$ 4.0526 | \$ 364,301 | \$ 19,005 | | 144,778 | \$ 4.5043 | \$ 652,128 | \$ 4.0574 | \$ 587,417 | \$ 64,711 |
| | | | | | | | 10/07/10 | 76,064 | \$ 4.2350 | \$ 322,130 | \$ 4.0526 | \$ 308,255 | \$ 13,876 | | 118,194 | \$ 4.3227 | \$ 510,914 | \$ 4.0487 | \$ 478,533 | \$ 32,381 |
| | | | | | | | 10/07/10 | 13,830 | \$ 4.2390 | \$ 58,624 | \$ 4.0526 | \$ 56,046 | \$ 2,578 | | 20,207 | \$ 4.4754 | \$ 90,432 | \$ 4.0811 | \$ 82,465 | \$ 7,967 |
| | | | | | | | | | | | | | | | 12,754 | \$ 4.9890 | \$ 63,628 | \$ 4.1429 | \$ 52,837 | \$ 10,791 |
| | | | | | | | | | | | | | | | 31,884 | \$ 4.9900 | \$ 159,101 | \$ 4.1429 | \$ 132,092 | \$ 27,009 |
| | | | | | | | | | | | | | | | 51,014 | \$ 4.3120 | \$ 219.974 | \$ 4.1429 | \$ 211,348 | \$ 8,627 |
| | | | | | | | | | | | | | | | 12,754 | \$ 4.3130 | | \$ 4.1429 | | |
| | | | | | | | | | | | | | | | 25,507 | \$ 4.2450 | | \$ 4.1429 | | |
| | | | | | | | | | | | | | | | 31,884 | | | | | |
| | | | | | | | | | | | | | | | 0.,004 | Ψ2-100 | , ,,,,,,, | Ψ1-12.0 | Ψ .02,002 | 0,207 |
| Total | 180,000 | | \$ 924,463 | | \$ 752,324 | \$ 172,139 | | 650,000 | | \$ 3,224,007 | | \$ 2,634,177 | \$ 589,830 | 1 | 2,040,000 | | \$ 10,052,032 | | \$ 7,977,093 | \$ 2,071,651 |
| WACOG | | | \$ 5.1359 | | \$ 4.1796 | \$ 0.9563 | 1 | | | \$ 4.9600 | 1 | \$ 4.0526 | \$ 0.9074 | | | | \$ 4.9275 | | \$ 3.9103 | \$ 1.0155 |

222 222

Projected Storage/Exchange Volumes Cost - November 2010 through March 2011

| | | | | | 110,0 | colou Oloruge/L | -xondinge voic | | veniber 2010 til | rough March 2 | 011 | | | | |
|--|---|---|--|---|---|--|--|---|--|--|--|--|--|--|--|
| Month/ Year | K#118657 NNG Storage | Storage K#121292 LS Power | Total NNG Storage | WACOG Projected K#118657 NNG WACOG | Projected K#121292 NNG WACOG | K#118657 NNG Storage Cost | K#121292 NNG Storage Cost | Total NNG Storage Cost | GLGT/VGT Centra AECO Storage | GLGT/VGT Centra AECO Storage WACOG | GLGT/VGT Centra AECO Storage Cost | | | | |
| Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 | 455,259 1,143,984 1,143,984 1,143,984 455,259 | 39,000 98,000 98,000 98,000 39,000 | 494,259 1,241,984 1,241,984 1,241,984 494,259 | \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 | \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 | \$ 1,863,052 \$ 4,681,515 \$ 4,681,515 \$ 4,681,515 \$ 1,863,052 | \$ 159,599 \$ 401,044 \$ 401,044 \$ 401,044 \$ 159,599 | | 94,773 260,095 260,095 234,925 97,932 | \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 | \$ 358,837 \$ 984,793 \$ 984,793 \$ 889,492 \$ 370,798 | | | | |
| Total | 4,342,470 | 372,000 | 4,714,470 | \$ 4.0923 | \$ 4.0923 | \$ 17,770,648 | \$ 1,522,332 | \$ 19,292,980 \$ 4.0923 | 947,820 | \$ 3.7863 | \$ 3,588,712 \$ 3.7863 | | | | |
| Month/ Year | NNG Storage Volume | NNG Indexes Price | NNG Indexes Cost | AECO Storage Volume | AECO Storage LDS + Basis | AECO Storage LDS + Cost | | Total AECO Storage Volumes | Total AECO Storage WACOG | Total AECO Storage Cost | Total AECO Storage | Total AECO Storage Market Cost | | | |
| Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 | 494,259 1,241,984 1,241,984 1,241,984 494,259 | \$ 3.6890 \$ 4.0684 \$ 4.3351 \$ 4.3571 \$ 4.2157 | \$ 1,823,321 \$ 5,052,852 \$ 5,384,181 \$ 5,411,451 \$ 2,083,645 | 94,773 260,095 260,095 234,925 97,932 | \$ 3.7065 \$ 4.1445 \$ 4.2080 \$ 4.2170 \$ 4.1795 | \$ 351,276 \$ 1,077,964 \$ 1,094,480 \$ 990,679 \$ 409,307 | | 94,773 260,095 260,095 234,925 97,932 | \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 | \$ 358,837 \$ 984,793 \$ 984,793 \$ 889,492 \$ 370,798 | \$ 3.7065 \$ 4.1445 \$ 4.2080 \$ 4.2170 \$ 4.1795 | \$ 351,276 \$ 1,077,964 \$ 1,094,480 \$ 990,679 \$ 409,307 | | | |
| Total | 4,714,470 | \$ 4.1904 | \$19,755,450 | 947,820 | \$ 4.1397 | \$ 3,923,705 | | 947,820 | \$ 3.7863 | \$ 3,588,712 | \$ 4.1397 | \$ 3,923,705 | | | |
| Max NNG Max Nexe | | ge plan withd | rawals through A | Apr 10 | 4,714,470 947,820 | 5,069,321 | | 10/31/09 Stora 10/31/09 PSO | age Balance - Ni Balance - Nexe | NG (estimate) n Emerson | 5,069,321 947,820 | 100.00% | 4,714,470 | | |
| Month/ Year | K#118657 NNG Storage | Storage K#121292 LS Power | Total NNG Storage | NNG PNG Volumes | NNG NMU Volumes | NNG Total Volumes | Projected K#118657 NNG WACOG | Projected K#121292 NNG WACOG | WACOG NNG PNG Cost | WACOG NNG NMU Cost | WACOG NNG Total Cost | NNG Indexes Price | NNG Index NNG PNG Cost | NNG Index NNG NMU Cost | NNG Index NNG Total Cost |
| Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 | 455,259 1,143,984 1,143,984 1,143,984 455,259 | 39,000 98,000 98,000 98,000 39,000 | 494,259 1,241,984 1,241,984 1,241,984 494,259 | 429,894 1,080,247 1,080,247 1,080,247 429,894 | 44,865 112,737 112,737 112,737 44,865 | 474,759 1,192,984 1,192,984 1,192,984 474,759 | \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 | \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 \$ 4.0923 | \$ 1,759,251 \$ 4,420,684 \$ 4,420,684 \$ 4,420,684 \$ 1,759,251 | \$ 183,601 \$ 461,353 \$ 461,353 \$ 461,353 \$ 183,601 | \$ 1,942,852 \$ 4,882,037 \$ 4,882,037 \$ 4,882,037 \$ 1,942,852 | \$ 3.6890 \$ 4.0684 \$ 4.3351 \$ 4.3571 \$ 4.2157 | \$ 1,585,879 \$ 4,394,846 \$ 4,683,028 \$ 4,706,747 \$ 1,812,301 | \$ 165,507 \$ 458,656 \$ 488,731 \$ 491,207 \$ 189,137 | \$ 1,751,386 \$ 4,853,502 \$ 5,171,759 \$ 5,197,953 \$ 2,001,438 |
| Total | 4,342,470 | 372,000 | 4,714,470 | 4,100,529 | 427,941 | 4,528,470 | \$ 4.0923 | \$ 4.0923 | \$ 16,780,555 \$ 4.0923 | \$ 1,751,259 \$ 4.0923 | \$ 18,531,814 \$ 3.9308 | \$ 4.1904 | \$ 17,182,800 \$ 4.1904 | \$ 1,793,238 \$ 4.1904 | \$ 18,976,038 \$ 4.1904 |
| Month/ Year | AECO Storage | GLGT PNG Volumes | GLGT NMU Volumes | VGT PNG Volumes | VGT NMU Volumes | Centra NMU Volumes | Total Nexen Volumes | GLGT/VGT Centra AECO Storage WACOG | GLGT | GLGT NMU Cost | VGT PNG Cost | VGT NMU Cost | Centra NMU Cost | Total Nexen Cost | |
| Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 | 94,773 260,095 260,095 234,925 97,932 | 15,429 42,344 42,344 38,246 15,944 | 27,626 75,817 75,817 68,480 28,547 | 12,846 35,254 35,254 31,842 13,274 | 21,064 57,807 57,807 52,213 21,766 | 17,808 48,873 48,873 44,144 18,402 | 94,773 260,095 260,095 234,925 97,932 | \$ 3.7863 | \$ 58,420 \$ 160,327 \$ 160,327 \$ 144,811 \$ 60,367 | \$ 104,600 \$ 287,063 \$ 287,063 \$ 259,283 \$ 108,086 | \$ 48,637 \$ 133,481 \$ 133,481 \$ 120,563 \$ 50,259 | \$ 79,753 \$ 218,875 \$ 218,875 \$ 197,694 \$ 82,411 | \$ 67,427 \$ 185,048 \$ 185,048 \$ 167,140 \$ 69,675 | \$ 358,837 \$ 984,793 \$ 984,793 \$ 889,492 \$ 370,798 | |
| Total | 947,820 | 154,307 16.28% | 276,286 29.15% | 128,469 13.55% | 210,657 22.23% | 178,101 18.79% | 947,820 100.00% | | \$ 584,251 \$ 3.7863 | \$ 1,046,095 \$ 3.7863 | \$ 486,421 \$ 3.7863 | \$ 797,607 \$ 3.7863 | \$ 674,339 \$ 3.7863 | \$ 3,588,712 \$ 3.7863 | |
| Month/ Year | AECO Storage | GLGT PNG Volumes | GLGT NMU Volumes | VGT PNG Volumes | VGT NMU Volumes | Centra NMU Volumes | Total Nexen Volumes | Projected AECO Index Price | GLGT PNG Cost | GLGT NMU Cost | VGT PNG Cost | VGT NMU Cost | Centra NMU Cost | Total Nexen Cost | |
| Nov-10 Dec-10 Jan-11 Feb-11 Mar-11 | 94,773 260,095 260,095 234,925 97,932 | 15,429 42,344 42,344 38,246 15,944 | 27,626 75,817 75,817 68,480 28,547 | 12,846 35,254 35,254 31,842 13,274 | 21,064 57,807 57,807 52,213 21,766 | 17,808 48,873 48,873 44,144 18,402 | 94,773 260,095 260,095 234,925 97,932 | | | \$ 102,396 \$ 314,222 \$ 319,036 \$ 288,779 \$ 119,311 | \$ 47,613 \$ 146,109 \$ 148,348 \$ 134,278 \$ 55,478 | \$ 78,073 \$ 239,582 \$ 243,253 \$ 220,183 \$ 90,970 | \$ 66,007 \$ 202,555 \$ 205,659 \$ 186,154 \$ 76,911 | \$ 351,276 \$ 1,077,964 \$ 1,094,480 \$ 990,679 \$ 409,307 | |
| Total | 947,820 | 154,307 16.28% | 276,286 29.15% | 128,469 13.55% | 210,657 22.23% | 178,101 18.79% | 947,820 100.00% | | 638,788 \$ 4.1397 | 1,143,744 \$ 4.1397 | 531,826 \$ 4.1397 | 872,061 \$ 4.1397 | 737,286 \$ 4.1397 | 3,923,705 \$ 4.1397 | |

Call/Put Options WACOG

| Call/Put | Ontions | |
|----------|---------|--|

| | | | | | | | | | Nov-10 | | | | | | | | Dec-10 | | | | | | | | | | | | | | Jan-11 | | | | | | | | | | | |
|--|--|--|----------------------------------|---|---|--|--|---|--|--|---|--|--|--|--|--|---|--|---|---|--|---|--|------------------------------|--|--|---|---|--|---------------------------------------|--|--|--|---|--|---|--|---|---|--|---|--|
| Deal Number | Purchase Date | | | | Strike Price | Strike Cost | Option Price | Option Cost | Pent Settle | Pent Settle Cost | Over/(Under) Market | Premium Per Unit | Premium Cost | Total Dea Cost Numb | | % Contrac | | Strike Price | Strike Cost | Option Price | Option Cost | Pent Settle | Pent Settle Cost | Over/(Under) Market | | Premium Cost | Total Cost | Deal P Number | urchase Date % | Number Contracts | Physical Volume | Strike Price | Strike Cost | Option Price | Option I Cost S | | | ver/(Under) Pre Market Per | | emium Cost | Total Cost | |
| 1 2 3 4 5 6 7 8 9 | 05/25/10 06/29/10 07/02/10 08/19/10 09/29/10 10/05/10 | | 13 15 15 20 20 19 | 150,000 \$ 200,000 \$ 200,000 \$ | 5.0000 \$ 5.0000 \$ 4.5000 \$ 4.0000 \$ | 650,000 \$ 750,000 \$ 750,000 \$ 900,000 \$ 800,000 \$ 760,000 \$ | 3.6290 \$ 3.6290 \$ 3.6290 \$ 3.6290 \$ | 601,350 801,800 800,000 | \$ 3.6290 \$ 3.6290 \$ 3.6290 \$ 3.6290 \$ | \$ 601,350 \$ 801,800 \$ 801,800 | \$ - \$ \$ - \$ \$ (1,800) | 0.5600 | \$ 83,250 \$ \$ 84,000 \$ \$ 56,000 \$ \$ 30,800 \$ | 685,350 3 857,800 4 830,800 5 | 05/27/10 06/17/10 07/13/10 08/24/10 09/17/10 10/07/10 | | 21 210,000 25 250,000 26 260,000 | \$ 6.0000 \$ | 1,260,000 1,155,000 1,125,000 1,170,000 | | \$ 894,600 \$ 1,065,000 \$ 1,107,600 | \$ 3.9920 \$ 3.9920 \$ 3.9920 \$ 3.9920 | \$ 894,600 \$ 894,600 \$ 1,065,000 \$ 1,107,600 | \$ - \$ - \$ - \$ - | \$ 0.4600 \$ \$ 0.5300 \$ \$ 0.3900 \$ \$ 0.2780 \$ \$ 0.0800 \$ | 81,900 \$ 90,000 \$ 72,280 \$ | 991,200 1,005,900 976,500 1,155,000 1,179,880 1,215,200 | 2 3 4 5 | 05/27/10 06/29/10 07/07/10 08/31/10 09/17/10 10/07/10 | 22 25 27 28 29 31 | 270,000 \$ 280,000 \$ 290,000 \$ | 5.5000 S 5.5000 S 5.0000 S 5.0000 S | 1,485,000 \$ 1,400,000 \$ 1,450,000 \$ | 4.2630 \$ 4.2630 \$ 4.2630 \$ 4.2630 \$ | 1,108,750 \$ 1,197,450 \$ | 4.2630 \$ 4.2630 \$ 4.2630 \$ | 1,197,450 \$ 1,241,800 \$ 1,286,150 \$ | - \$ 0 - \$ 0 - \$ 0 | 0.6250 \$ | 156,250 \$ 164,700 \$ 84,000 \$ 64,670 \$ | 1,362,150 1,325,800 1,350,820 | |
| Total | | | 102 | 1,020,000 | s s | 4,610,000 4.5196 | | 4,085,670 4.0056 | | \$ 4,089,180 \$ 4.0090 | | | \$ 320,860 \$ 0.3146 | | | 14 | 2 1,420,000 | S | 7,125,000 5.0176 | \$ 5 | \$ 6,049,200 \$ 4.2600 | | \$ 6,049,200 \$ 4.2600 | | s s | 474,480 \$ 0.3341 \$ | 6,523,680 4.5941 | Total | Total | 162 | 1,620,000 | | 8,315,000 5.1327 | | 7,184,700 4.4350 | | 7,184,700 \$ 4.4350 \$ | - | | 663,760 \$ 0.4097 \$ | | |
| NNG-PNG NNG-NMU GLGT-PNG GLGT-NMU VGT-PNG VGT-NMU Centra | 9 3 5 3 4 | 72.55% 8.82% 2.94% 4.90% 2.94% 3.92% 3.92% | 74 9 3 5 3 4 | 89,964 \$ 29,988 \$ 49,980 \$ 29,988 \$ 39,984 \$ | 4.5196 \$ 4.5196 \$ 4.5196 \$ 4.5196 \$ 4.5196 \$ | 3,344,555 \$ 406,602 \$ 135,534 \$ 225,890 \$ 135,534 \$ 180,712 \$ 180,712 \$ | 4.0056 \$ 4.0056 \$ 4.0056 \$ 4.0056 \$ | 360,356 120,119 200,198 120,119 160,158 | \$ 4.0090 \$ 4.0090 \$ 4.0090 \$ 4.0090 \$ 4.0090 \$ | \$ 360,666 \$ 120,222 \$ 200,370 \$ 120,222 \$ 160,296 | \$ (310) \$ \$ (103) \$ \$ (172) \$ \$ (103) \$ \$ (138) \$ | 0.3146 0.3146 0.3146 0.3146 0.3146 | \$ 28,300 \$ 9,433 \$ 15,722 \$ 9,433 \$ | 129,552 GLGT-I 215,920 GLGT-I 129,552 VGT-P 172,736 VGT-N | MU 14 9 6 MU 9 6 MU 6 4 | 1.13% 10 9.86% 1 2.82% 3.34% 2.11% 4.23% 3.52% | 4 140,012 4 40,044 9 90,028 3 29,962 6 60,066 | \$ 5.0176 \$ 5 | 702,525 200,925 451,725 150,338 301,388 | \$ 4.2600 \$ \$ 4.2600 \$ \$ 4.2600 \$ \$ 4.2600 \$ \$ 4.2600 \$ | 596,451 170,587 383,519 127,638 | \$ 4.2600 \$ 4.2600 \$ 4.2600 \$ 4.2600 \$ 4.2600 | \$ 170,587 \$ 383,519 \$ 127,638 \$ 255,881 | \$ - \$ - \$ - \$ - | \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ 0.3341 \$ | 30,082 \$ 10,012 \$ 20,071 \$ | 4,640,294 N 643,235 N 183,968 G 413,601 G 137,650 \ 275,952 \ 229,634 | NNG-NMU GLGT-PNG GLGT-NMU VGT-PNG VGT-NMU | 117 72.22 14 8.649 5 3.099 9 5.569 4 2.479 7 4.329 6 3.709 | 6 14 6 5 6 9 6 4 6 7 | 50,058 90,072 40,014 69,984 | 5.1327 \$ 5.1327 \$ 5.1327 \$ 5.1327 \$ 5.1327 \$ 5.1327 \$ | 718,416 \$ 256,934 \$ 462,314 \$ 205,381 \$ 359,208 \$ | 4.4350 \$ 4.4350 \$ 4.4350 \$ 4.4350 \$ 4.4350 \$ | 222,007 \$ 399,469 \$ 177,462 \$ | 4.4350 \$ 4.4350 \$ 4.4350 \$ 4.4350 \$ 4.4350 \$ | 620,758 \$ 222,007 \$ 399,469 \$ 177,462 \$ 310,379 \$ | - \$ 0 - \$ 0 - \$ 0 - \$ 0 | 0.4097 \$ 0.4097 \$ 0.4097 \$ 0.4097 \$ | 57,349 \$ 20,510 \$ 36,905 \$ 16,395 \$ 28,674 \$ | 5,668,158 678,107 242,517 436,374 193,857 339,053 290,393 | |
| Total | 102 | 100.0% | 102 | 1,019,898 \$ | 4.5196 \$ | 4,609,539 \$ | 4.0056 \$ | 4,085,261 | \$ 4.0090 | \$ 4,088,771 | \$ (3,510) | 0.3146 | \$ 320,828 \$ | 4,406,089 Tota | 142 1 | 00.0% 14 | 2 1,420,142 | \$ 5.0176 \$ | 7,125,713 | \$ 4.2600 \$ | 6,049,805 | \$ 4.2600 | \$ 6,049,805 | ş - | \$ 0.3341 \$ | 474,527 \$ | 6,524,332 | Total | 162 100.0 | % 162 | 1,620,000 | \$ 5.1327 \$ | 8,315,000 \$ | 4.4350 \$ | 7,184,700 \$ | 4.4350 \$ | 7,184,700 \$ | - \$ (| 0.4097 \$ | 663,760 \$ | 7,848,460 | |
| | | | | | | | | | Feb-11 | | | | | | | | | | | Mar | r-11 | | | | | | | | | | | | | To | al | | | | | | | |
| Deal Number | Purchase Date | | | | Strike Price | Strike Cost | Option Price | Option Cost | Pent Settle | Pent Settle Cost | Over/(Under) Market | Premium Per Unit | Premium Cost | Total Dea Cost Numb | Purchase er Date | % Contrac | r Financial ts Volume | Strike Price | Strike Cost | Option Price | Option Cost | Pent Settle | Pent Settle Cost | Over/(Under) Market | | Premium Cost | Total Cost | Deal P Number | Purchase Date % | Number Contracts | | Strike Price | Strike Cost | Option Price | | Pent P ettle | Pent Settle Ov Cost | ver/(Under) Pre Market Per | | | Total Cost | |
| 1 2 3 4 5 6 7 8 9 | 05/27/10 06/22/10 07/07/10 08/31/10 09/17/10 10/07/10 | | 17 22 24 24 25 25 | 220,000 \$ 240,000 \$ 240,000 \$ 250,000 \$ | 5.5000 \$ 5.5000 \$ 5.0000 \$ 5.0000 \$ | 935,000 \$ 1,210,000 \$ 1,320,000 \$ 1,200,000 \$ 1,250,000 \$ 1,125,000 \$ | 4.3020 \$ 4.3020 \$ 4.3020 \$ 4.3020 \$ | 977,240 1,066,080 1,066,080 1,110,500 | \$ 4.3020 \$ 4.3020 \$ 4.3020 \$ 4.3020 \$ | \$ 1,066,080 \$ 1,066,080 \$ 1,110,500 | S - S | 0.6400 0.3350 0.2700 | | 1,135,640 2 1,219,680 3 1,146,480 4 1,178,000 5 | 05/25/10 06/17/10 07/13/10 08/25/10 09/15/10 10/07/10 | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 220,000 | \$ 6.0000 \$ | 1,140,000 935,000 945,000 1,100,000 | \$ 4.2470 \$ \$ 4.2470 \$ \$ 4.2470 \$ \$ 4.2470 \$ \$ 4.2470 \$ \$ 4.2470 \$ | \$ 830,870 \$ 743,410 \$ 918,330 | \$ 4.2470 \$ 4.2470 \$ 4.2470 \$ 4.2470 | \$ 743,410 \$ 918,330 \$ 962,060 | S - S - S - | \$ 0.5600 \$ \$ 0.6550 \$ \$ 0.5500 \$ \$ 0.4850 \$ \$ 0.2900 \$ \$ 0.2850 | 93,500 \$ 101,850 \$ 63,800 \$ | 690,620 955,320 836,910 1,020,180 1,025,860 1,024,760 | 1 2 3 4 5 6 7 8 9 | | 87 102 104 118 122 125 | 1,180,000 1,220,000 | 5.6225 \$ 5.4279 \$ 4.7203 \$ 4.7295 \$ | | 4.3263 \$ 4.3297 \$ 4.3161 \$ 4.3166 \$ | | 4.3263 \$ 4.3297 \$ 4.3161 \$ 4.3181 \$ | 5,093,010 \$ 5,268,110 \$ | - \$ 0 - \$ 0 | 0.6212 \$ 0.5555 \$ 0.3494 \$ 0.2451 \$ | 577,700 \$ 412,250 \$ 299,050 \$ | 5,046,460 5,080,590 5,505,260 5,565,360 | |
| Total NNG-PNG NNG-NMU | | 71.53% 8.76% | 137 98 12 | | 5.1387 5.1387 \$ | 616,704 \$ | 4.4420 \$ 4.4420 \$ | | \$ 4.4420 \$ | | s - s | 0.4618 0.4618 | \$ 0.4618 \$ \$ 452,535 \$ \$ 55,420 \$ | 4,805,521 NNG-F 588,513 NNG-N | NG 82 7 | 1.30% 8 3.70% 1 | 0 100,050 | \$ 5.1130 \$ \$ 5.1130 \$ | 511,560 | \$ 4.3730 \$ \$ 4.3730 \$ | 437,519 | \$ 4.3730 \$ 4.3730 | \$ 5,028,950 \$ 4.3730 \$ 3,585,641 \$ 437,519 | s - s - s - | \$ 0.4563 \$ 0.4563 \$ 0.4563 | 0.4563 \$ 374,111 \$ 45,649 \$ | | NNG-NMU | 59 8.979 | % 472 6 59 | 590,029 | \$ 5.0106 \$ \$ 5.0106 \$ | 32,970,000 5.0106 23,650,370 2,956,420 \$ | 4.3213 \$ 4.3213 \$ | 2,549,682 \$ | 4.3218 \$ 4.3218 \$ | | (0.0005) (2,518) \$ 0 (315) \$ 0 | 0.3976 \$ 1, 0.3976 \$ | 234,617 \$ | 4.7189 22,273,462 2,784,299 | |
| GLGT-PNG GLGT-NMU VGT-PNG VGT-NMU Centra | 8 4 6 5 | 2.92% 5.84% 2.92% 4.38% 3.65% | 4 8 4 6 5 | 80,008 \$ 40,004 \$ 60,006 \$ 50,005 \$ | 5.1387 \$ 5.1387 \$ 5.1387 \$ 5.1387 \$ | 205,568 \$ 411,136 \$ 205,568 \$ 308,352 \$ 256,960 \$ 7.040,000 \$ | 4.4420 \$ 4.4420 \$ 4.4420 \$ 4.4420 \$ | 177,698 266,547 222,122 | \$ 4.4420 \$ 4.4420 \$ 4.4420 \$ 4.4420 | \$ 177,698 \$ 266,547 \$ 222,122 | S - S S - S | 0.4618 0.4618 0.4618 | \$ 36,947 \$ | 392,342 GLGT-I 196,171 VGT-P 294,257 VGT-N 245,214 Centr | MU 7 6 NG 3 2 NU 5 4 | 3.48% 5.09% 2.61% 4.35% 3.48% | 7 70,035 3 30,015 5 50,025 4 40,020 | \$ 5.1130 \$ 5.1130 \$ 5.1130 \$ 5.1130 \$ 5.1130 \$ 5.1130 \$ | 358,092 153,468 255,780 204,624 | | 306,263 131,256 | \$ 4.3730 \$ 4.3730 | \$ 306,263 \$ 131,256 \$ 218,759 \$ 175,007 | \$ - \$ - \$ - \$ - | \$ 0.4563 \$ 0.4563 \$ 0.4563 \$ 0.4563 \$ 0.4563 \$ | 31,954 \$ 13,695 \$ 22,824 \$ 18,260 \$ | 193,267 G 338,217 G 144,950 \ 241,584 \ 193,267 | SLGT-NMU VGT-PNG VGT-NMU Centra | 20 3.049 38 5.789 17 2.589 28 4.269 24 3.659 | 6 38 6 17 6 28 6 24 | 379,995 170,027 279,979 239,973 | 5.0106 S 5.0106 S 5.0106 S 5.0106 S | 851,945 \$ 1,402,874 \$ 1,202,416 \$ | 4.3213 \$ 4.3213 \$ 4.3213 \$ | 864,395 \$ 1,642,067 \$ 734,736 \$ 1,209,869 \$ 1,036,990 \$ | 4.3218 \$ 4.3218 \$ 4.3218 \$ 4.3218 \$ | 734,827 \$ 1,210,019 \$ 1,037,118 \$ | (203) \$ 0 (91) \$ 0 (149) \$ 0 (128) \$ 0 | 0.3976 \$ 0.3976 \$ 0.3976 \$ 0.3976 \$ 0.3976 \$ | 151,100 \$ 67,609 \$ 111,330 \$ 95,422 \$ | 802,345 1,321,199 1,132,412 | |
| 1000 | | . 20.070 | | .,5,0,000 | | .,040,000 | | 2,000,040 | | - 0,000,040 | - 15 | . 00.0 | - 002,000 4 | -,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | , ,,,, | | -, 1,100,110 | 1 - 0.1100 9 | 0,000,000 | , 1.0100 9 | 3,020,400 | 1.07.00 | _ 0,020,400 | * - | - 0.7000 0 | JE7,7 OE Ø | _,007,E00 | · Otta | 1.00.0 | 000 | _,000,000 | - 0.0100 9 | ,0,0,000 0 | 7.02.10 | , ,,,,,,,, | | , ,0,,00- | (0,010) 0 | z, | ,, | | |