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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 Great Lakes 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 5 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

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 Great Lakes Gas)
Transmission System)

SUMMARY OF FILING

Pursuant to Minnesota Rule 7825.2910, subpart 2 (Filing Upon Change in Demand), Minnesota Energy Resources Corporation-PNG (MERC or the Company), hereby petitions the Minnesota Public Utilities Commission (Commission) for approval of changes in demand entitlements for MERC-PNG's customers served off of the Great Lakes Gas Transmission (GLGT or Great Lakes) 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
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In the Matter of the Petition of Minnesota)
Energy Resources Corporation – PNG)
for Approval of a Change in Demand) Docket No. _____
Entitlement for its Great Lakes 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 Great Lakes Gas Transmission (GLGT or Great Lakes) 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

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

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

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

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

C. Date of the Filing and Proposed Effective Date

Date of filing: November 1, 2010
Proposed Effective Date: November 1, 2010

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

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

David C. Boyd	Chair
J. Dennis O'Brien	Commissioner
Thomas Pugh	Commissioner
Phyllis A. Reha	Commissioner
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In the Matter of the Petition of Minnesota)	
Energy Resources Corporation – PNG)	
for Approval of a Change in Demand)	Docket No. _____
Entitlement for its Great Lakes Gas)	
Transmission System)	

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 Great Lakes Gas Transmission (GLGT or Great Lakes) system. MERC requests that the Commission approve the requested changes to be recovered in the Purchased Gas Adjustment (PGA) effective on November 1, 2010.

II. DISCUSSION

A. MERC's PNG-GLGT Design Day Requirements

MERC's 2010-2011 PNG-GLGT design day requirements decreased 1,362 Mcf (or approximately 12.61 percent) from 10,802 Mcf to 9,440 Mcf.

**Table 1: MERC’s Proposed Reserve Margins
For the 2010-2011 Heating Season
GLGT PNG**

	Reserve Margin 2010-2011 Heating Season	Reserve Margin 2009-2010 Heating Season	Change
GLGT-PNG	21.82%	6.46%	15.36%

As shown in Table 1 and Attachment 3, MERC’s proposed system wide reserve margin for PNG-GLGT for the 2010-2011 heating season is positive.

For the Demand Entitlement filing effective November 1, 2010, the total Design Day requirement for PNG-GLGT is 9,440 Dth as calculated in Attachment 1, page 2 and Attachment 3.

For the Demand Entitlement filing effective November 1, 2010, the total Design Day capacity for PNG-GLGT, is 11,500 Dth as calculated in Attachment 3.

The difference between the total Design Day requirement and total Design Day capacity results in a 21.82% positive 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 four pipelines:

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

Four Petitions for Change in Demand are filed (one for each of 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 **Data Preparation** 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:

<u>Station</u>	<u>Date</u>	<u>Avg. Temp</u>	<u>Avg. Wind</u>	<u>HDD65</u>	<u>AHDD65</u>
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 daily telemetered data from each interruptible, transportation, and joint interruptible customer mapped to each of the eight demand areas and related weather stations. This was the case for a handful of paper mills, direct-connects, taconites, and off-system end users. The rest of the interruptible, transportation, and joint interruptible data was available based on monthly billing cycle data that introduces billing lag, meter read lag (not all meters were read every month, 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):
 1. Gather the net daily metered volumes and weather station data including AHDD65¹.
 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 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).

¹ 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.

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 records². 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 class³, calendar month, (service) area, city, location, zip

² Individual daily volumes were available for a handful of paper mills, direct-connects, taconites, and off-system end users.

³ Transportation, Interruptible, Joint Interruptible, Residential, Large Commercial & Industrial and Small Commercial & Industrial

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 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 NORTSHORE
- 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 10. The daily estimate is compared to actual consumption. The actual volumes is total through-put which includes interruptible and transportation volumes that are located behind MERC citygates. This does not

include any transportation volumes that are directly connected with NNG pipeline. The Design Day model only calculates firm volumes. MERC does not forecast on a daily/monthly basis utilizing the Design Day model. The Design Day model is utilized to calculate the theoretical peak day. The calculated base load natural gas usage at zero heating degree days is 697 Dth which includes interruptible and transportation volumes. Since daily volume consumption is not available for all interruptible and transportation customers, MERC is not able to determine an exact number to deduct from the 697 Dth to determine the firm base load natural gas consumption at zero (0) HDD.

Average Customer Counts

In the 2007 demand entitlement docket, MERC agreed to include average customer counts which is provided in Attachment 11.

C. MERC's Specific GLGT Proposed Demand-Related Changes

There are two types of demand entitlement changes. The first type is design day deliverability, which, in this case, MERC is proposing no change in the firm transportation capacity actually available to MERC-PNG-GLGT 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 6, MERC-PNG-GLGT proposes no change in design day deliverability for the upcoming heating season.

2. Other Demand Entitlement Changes

As shown in Attachment 6, MERC-PNG-GLGT terminated the Nexen PSO and replaced it with AECO Storage. To deliver the supply from storage to MERC-NMU's markets, MERC entered in an AECO/Emerson swap. MERC sells gas at the storage point (AECO) to a supplier and MERC buys an equivalent volume at Emerson/Spruce, which MERC then transports to its PNG-GLGT, PNG-VGT and NMU (GLGT, VGT and Centra) customers. The swap substituted the need to contract for firm transport on TransCanada Pipeline (TCPL) to transport the gas from AECO to Emerson/Spruce. The cost of TCPL would have been approximately \$758,222 compared to the \$450,195 to swap the gas.

D. Financial Option Units and Premiums

- i. MERC entered into New York Mercantile Exchange (NYMEX) financial Call Options for the upcoming 2010-2011 winter (November through March). Please see Attachment 5.
- ii. Total premium cost to enter into the financial Call Options on behalf of MERC's firm customers amounted to \$80,014 for the 2010-2011 winter. Please see Attachment 5.
- iii. MERC entered into 20 contracts (10,000/contract) or 200,000. Total premium per contract is approximately \$0.4001. Please see Attachment 5.
- iv. Please see Attachment 5 for the various contract dates.
- v. Please see Attachment 5 for the various contract prices.
- vi. MERC entered into 13 futures contracts (10,000/contract) or 130,000,

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-GLGT 2010-2011 Winter Portfolio Plan - Minnesota Energy Resources Corporation for GLGT gas supply purchases for the Hedging Plan is in Attachment 9, page 2. This Attachment includes the projected sales number by month for the November 2010 through March 2011 period as well as the planned physical fixed price, financial call options and storage and/or exchange volumes by month.

F. Price Volatility

MERC's 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 physical fixed price purchases. MERC is projecting the weighted average cost of gas (WACOG) for futures contracts of natural gas to be approximately \$4.9503. Please see Attachment 12, page 1 of 3. MERC is projecting the AECO Storage for PNG-GLGT to be approximately

\$3.7863. This is an estimate based upon the purchases in October but since this filing is being made before the accounting is closed for October, this estimate may change.

Please see Attachment 12, 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 customers' gas cost is capped at the average strike price. Please see Attachment 12, 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 \$4.32 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 and 2, and on page 1 of Attachment 7. 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 3 and 4, and Attachment 7, 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

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PUBLIC DOCUMENT – TRADE SECRET DATA HAS BEEN EXCISED

MERC-PNG

Demand Entitlement Schedules - GLGT

MINNESOTA ENERGY RESOURCES

DESIGN-DAY DEMAND SUMMARY

NOVEMBER 1, 2010

GLGT

Design Day Requirement	9,440
Total Entitlement on Peak Day(excl. Peak Shaving)	11,500
Firm Peak Day Actual Sendout -Non Coincidental (Jan. 2)	7,391
Firm Annual Throughput - Minnesota	895,762
No. of Firm Customers	6,053
DPS Load Factor Calculation	33.20%

MINNESOTA ENERGY RESOURCES - PNG

MINNESOTA DESIGN DAY REQUIREMENTS

NOVEMBER 1, 2010

GLGT

Pipeline Group	Nov09-Mar 10 Avg. Customer Count	1/20 Design DDD	Regression Factors		Regression Total Footnote 1	Regression Adjustment Footnote 2	1/20 Requirements Regression Load Footnote 3	Nov09-Mar 10 Avg. Customer Growth	Total
			Intercept	Slope					

PEAK									
	6,053	107	379	95	11,280	1,619	9,661	-2.3%	9,440
Total	6,053								9,440

OFF PEAK									
	6,053	57	379	95	6,540	933	5,607	-2.3%	5,478
Total	6,053								5,478

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

Footnote 2: Regression Adjustment subtracts out Interruptible, Transportation and Joint Interruptible volumes and adds Firm Joint volumes.

Footnote 3: Total equals Regression Total minus Regression Adjustment.

*All the requirements are adjusted by customer growth

MINNESOTA ENERGY RESOURCES

DESIGN-DAY DEMAND PER CUSTOMER NOVEMBER 1, 2010

GLGT

<u>Heating Season</u>	<u>No. of Firm Customers</u>	<u>Design Day Requirements</u>	<u>MMBtus /Customer /Day</u>
10/11	6,053	9,440	1.56
09/10	6,068	10,802	1.78
08/09	5,874	10,299	1.75
07/08	5,816	9,550	1.64
06/07	5,747	9,543	1.66
05/06	5,679	9,510	1.67
04/05	5,514	9,449	1.71
03/04	5,411	9,647	1.78

MINNESOTA ENERGY RESOURCES

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

<u>Class</u>	<u>Summer Apr-Oct</u>	<u>Winter Nov-Mar</u>	<u>Total</u>
GS	233,890	635,497	869,387
SVI	4,632	13,964	18,596
SVJ	<u>9,714</u>	<u>16,661</u>	<u>26,375</u>
Total	<u>248,236</u>	<u>666,122</u>	<u>914,358</u>

MINNESOTA ENERGY RESOURCES

ENTITLEMENT LEVELS

PROPOSED TO BE EFFECTIVE NOVEMBER 1, 2010

GLGT

Type of Capacity or Entitlement	Current Amount Mcf or MMBtu	Proposed Change Mcf or MMBtu	Proposed Amount Mcf or MMBtu
FT0017	4,105	0	4,105
FT0075	1,973	0	1,973
FT0155(12)	2,422	0	2,422
FT0155(5)	1,500	0	1,500
FT8466	1,500	0	1,500
Heating Season Total	11,500	0	11,500
Non-Heating Season Total	10,000	0	10,000
Total Entitlement	11,500	0	11,500
Heating Season Forecasted Design Day	10,802		9,440
Non-Heating Season Forecasted Design Day	6,413		5,478
Heating Season Capacity Surplus/Shortage	698		2,060
Non-Heating Season Capacity Surplus/Shortage	3,587		4,522
Reserve Margin	6.46%		21.82%

MINNESOTA ENERGY RESOURCES - PNG**RATE IMPACT OF THE PROPOSED DEMAND CHANGE****NOVEMBER 1, 2010**

All costs in \$/MMBtu	Last Base Cost of Gas G007,G011/ MR08-836* Oct. 08	Demand Change G011- M-08-XXXX Oct.08	Last Demand Change G011- M-08-XXXX Oct. 09	GLGT		Current Proposal Effective Nov.1,2010	Result of Proposed Change			
				Most Recent PGA Oct. 2010	Change from Last Rate Case**		Change from Last Demand Change	Change from Last PGA %	Change from Last PGA \$	

1) General Service: Avg. Annual Use:				146	Mcf				
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost	\$0.8348	\$0.7995	\$0.7964	\$0.7613	\$0.8421	0.88%	5.74%	10.62%	\$0.0808
Commodity Margin	\$1.6263	\$1.6263	\$1.6263	\$1.7746	\$1.7746	9.12%	9.12%	0.00%	\$0.0000
Total Cost of Gas	\$10.7901	\$9.3694	\$6.0894	\$6.3109	\$6.3013	-41.60%	3.48%	-0.15%	(\$0.0096)
Avg Annual Cost	\$1,575.35	\$1,367.93	\$889.05	\$921.39	\$919.99	-41.60%	3.48%	-0.15%	(\$1.40)
Effect of proposed commodity change on average annual bills:									(\$13.20)
Effect of proposed demand change on average annual bills:									\$11.80

2) Small Vol. Interruptible: Avg. Annual Use:				4,036	Mcf				
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost									
Commodity Margin	\$1.2434	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Total Cost of Gas	\$9.5724	\$8.1870	\$4.9101	\$4.9431	\$4.8527	-49.31%	-1.17%	-1.83%	(\$0.0904)
Avg Annual Cost	\$38,634.21	\$33,042.73	\$19,817.16	\$19,950.35	\$19,585.36	-49.31%	-1.17%	-1.83%	(\$365.00)
Effect of proposed commodity change on average annual bills:									(\$365.00)
Effect of proposed demand change on average annual bills:									\$0.00

3) Small Vol. Firm: Avg. Annual Use:				5,462	Mcf				
Avg. Annual CD units:				50					
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost	\$3.4580	\$3.4580	\$3.4580	\$3.4580	\$3.4580	0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Demand Margin	\$2.0724	\$2.0724	\$2.0724	\$1.8000	\$1.8000	-13.14%	-13.14%	0.00%	\$0.0000
Total Cost of Gas	\$9.5724	\$8.1870	\$4.9101	\$4.9431	\$4.8527	-49.31%	-1.17%	-1.83%	(\$0.0904)
Total Demand Cost	\$5.5304	\$5.5304	\$5.5304	\$5.2580	\$5.2580	-4.93%	-4.93%	0.00%	\$0.0000
Avg Annual Cost	\$52,560.97	\$44,993.91	\$27,095.49	\$27,262.11	\$26,768.16	-49.07%	-1.21%	-1.81%	(\$493.96)
Effect of proposed commodity change on average annual bills:									(\$493.96)
Effect of proposed demand change on average annual bills:									\$0.00

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

MINNESOTA ENERGY RESOURCES - PNG

CALCULATION OF PURCHASED GAS ADJUSTMENT (PGA)

GLGT

Great Lakes Current Cost of Gas

						01-Nov-10	CURRENT			
II. GREAT LAKES GAS TRANSMISSION'S RATES -- CURRENT COST OF GAS EFFECTIVE										
Commodity From Schedule D						\$0.36758 /therm				
III. ANNUAL SALES --										
Total Annual Sales						10,762,470 therms				
Firm Annual Sales (GS-5)						8,725,440 therms				
IV. PNG'S -- CURRENT COST OF GAS EFFECTIVE						01-Nov-10	CURRENT			
			Monthly Entitlement	Months	Rate \$/Dth			Contract Cost	\$/therm	
A. GS-5	FT-A	FT0017	4,105	12	\$3.4580	=	\$170,341	\$0.01952		
	FT-A	FT0075	1,973	12	\$3.4580	=	\$81,872	\$0.00938		
	FT-A(12)	FT0155	2,422	12	\$3.4580	=	\$100,503	\$0.01152		
	FT-A(5)	FT0155	1,500	5	\$3.4580	=	\$25,935	\$0.00297		
	FT-A	FT8466	1,500	12	\$3.4580	=	<u>\$62,244</u>	<u>\$0.00713</u>		
	Total Demand Cost						\$440,895	\$0.05053		
	Nexen Exchange		0	1	\$1.77000	=	\$0	\$0.00000		
	Niska Storage (AECO)		154,307	1	\$1.42960	=	\$ 220,597	\$0.02528		
	AECO/Emerson Swap		154,301	1	\$0.47500	=	<u>\$73,293</u>	<u>\$0.00840</u>		
	Total Storage Demand						\$ 293,890	\$0.03368		
	Rate Case 2008 Firm Annual Sales in therms						8,725,440			
	Current Demand Cost of Gas \$/therm						\$0.08421			
	Current T-17 Commodity Cost of Gas						\$0.36758			
	Call Option Premium					\$9,433.28	10,762,470	\$0.00088		
	GS-5 Total Current Commodity Cost of Gas \$/therm						<u>\$0.36846</u>			
	Current Total Cost of Gas \$/therm						\$0.45267			
B. SVI-5	Current Commodity Cost of Gas \$/therm						\$0.36846			
C. SJ-5	Current Demand Cost of Gas \$/therm						\$0.34580			
	Current Commodity Cost of Gas \$/therm						\$0.36846			
D. LVI-5	Current Commodity Cost of Gas \$/therm						\$0.36846			

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

MINNESOTA ENERGY RESOURCES - PNG

RATE IMPACT OF THE PROPOSED DEMAND CHANGE

NOVEMBER 1, 2010

All costs in \$/MMBtu	Last Base Cost of Gas G007,G011/ MR08-836* Oct. 08	Demand Change G011- M-08-XXXX Oct.08	Last Demand Change G011- M-08-XXXX Oct. 09	GLGT		Current Proposal Effective Nov.1,2010	Result of Proposed Change			
				Most Recent PGA Oct. 2010	Change from Last Rate Case**		Change from Last Demand Change	Change from Last PGA %	Change from Last PGA \$	

1) General Service: Avg. Annual Use:				146	Mcf				
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost	\$0.8348	\$0.7995	\$0.7964	\$0.7613	\$0.5053	-39.47%	-36.55%	-33.63%	(\$0.2560)
Commodity Margin	\$1.6263	\$1.6263	\$1.6263	\$1.7746	\$1.7746	9.12%	9.12%	0.00%	\$0.0000
Total Cost of Gas	\$10.7901	\$9.3694	\$6.0894	\$6.3109	\$6.2375	-42.19%	2.43%	-1.16%	(\$0.0734)
Avg Annual Cost	\$1,575.35	\$1,367.93	\$889.05	\$921.39	\$910.68	-42.19%	2.43%	-1.16%	(\$10.71)
Effect of proposed commodity change on average annual bills:									\$26.66
Effect of proposed demand change on average annual bills:									(\$37.38)

2) Small Vol. Interruptible: Avg. Annual Use:				4,036	Mcf				
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost									
Commodity Margin	\$1.2434	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Total Cost of Gas	\$9.5724	\$8.1870	\$4.9101	\$4.9431	\$5.1257	-46.45%	4.39%	3.69%	\$0.1826
Avg Annual Cost	\$38,634.21	\$33,042.73	\$19,817.16	\$19,950.35	\$20,687.46	-46.45%	4.39%	3.69%	\$737.11
Effect of proposed commodity change on average annual bills:									\$737.11
Effect of proposed demand change on average annual bills:									\$0.00

3) Small Vol. Firm: Avg. Annual Use:				5,462	Mcf				
Avg. Annual CD units:				50					
Commodity Cost	\$8.3290	\$6.9436	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost	\$3.4580	\$3.4580	\$3.4580	\$3.4580	\$3.4580	0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Demand Margin	\$2.0724	\$2.0724	\$2.0724	\$1.8000	\$1.8000	-13.14%	-13.14%	0.00%	\$0.0000
Total Cost of Gas	\$9.5724	\$8.1870	\$4.9101	\$4.9431	\$5.1257	-46.45%	4.39%	3.69%	\$0.1826
Total Demand Cost	\$5.5304	\$5.5304	\$5.5304	\$5.2580	\$5.2580	-4.93%	-4.93%	0.00%	\$0.0000
Avg Annual Cost	\$52,560.97	\$44,993.91	\$27,095.49	\$27,262.11	\$28,259.66	-46.23%	4.30%	3.66%	\$997.55
Effect of proposed commodity change on average annual bills:									\$997.55
Effect of proposed demand change on average annual bills:									\$0.00

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

MINNESOTA ENERGY RESOURCES - PNG

CALCULATION OF PURCHASED GAS ADJUSTMENT (PGA)

GLGT

Great Lakes Current Cost of Gas

						01-Nov-10	CURRENT		
II. GREAT LAKES GAS TRANSMISSION'S RATES -- CURRENT COST OF GAS EFFECTIVE									
Commodity From Schedule D						\$0.36758 /therm			
III. ANNUAL SALES --									
Total Annual Sales						10,762,470 therms			
Firm Annual Sales (GS-5)						8,725,440 therms			
IV. PNG'S -- CURRENT COST OF GAS EFFECTIVE						01-Nov-10	CURRENT		
		Monthly				Contract			
		Entitlement	Months	Rate \$/Dth		Cost		\$/therm	
A. GS-5	FT-A	FT0017	4,105	12	\$3.4580	=	\$170,341	\$0.01952	
	FT-A	FT0075	1,973	12	\$3.4580	=	\$81,872	\$0.00938	
	FT-A(12)	FT0155	2,422	12	\$3.4580	=	\$100,503	\$0.01152	
	FT-A(5)	FT0155	1,500	5	\$3.4580	=	\$25,935	\$0.00297	
	FT-A	FT8466	1,500	12	\$3.4580	=	<u>\$62,244</u>	<u>\$0.00713</u>	
Total Demand Cost							\$440,895	\$0.05053	
Nexen Exchange			0	1	\$1.77000	=	\$0	\$0.00000	
Niska Storage (AECO)			154,307	0	\$0.00000	=	\$ -	\$0.00000	
AECO/Emerson Swap			154,301	0	\$0.00000	=	<u>\$0</u>	<u>\$0.00000</u>	
Total Storage Demand							\$ -	\$0.00000	
Rate Case 2008 GS-5 sales in therms							8,725,440		
Current Demand Cost of Gas \$/therm								\$0.05053	
Current T-17 Commodity Cost of Gas								\$0.36758	
Call Option Premium					\$9,433.28		10,762,470	\$0.00088	
Niska Storage (AECO)			154,307	1	\$1.42960		10,762,470	\$220,597	\$0.02050
AECO/Emerson Swap			154,301	1	\$0.47500		10,762,470	\$73,293	\$0.00681
GS-5 Total Current Commodity Cost of Gas \$/therm								<u>\$0.39576</u>	
Current Total Cost of Gas \$/therm								\$0.44629	
B. SVI-5	Current Commodity Cost of Gas \$/therm								\$0.39576
C. SJ-5	Current Demand Cost of Gas \$/therm								\$0.34580
	Current Commodity Cost of Gas \$/therm								\$0.39576
D. LVI-5	Current Commodity Cost of Gas \$/therm								\$0.39576

MINNESOTA ENERGY RESOURCES - PNG-GLGT

**Financial Options
Heating Season 2010-2011**

[TRADE SECRET DATA BEGINS

Units - Gas Daily Packages

No Gas Daily Peakers were purchased

Units - Futures (Daily Volume)

	<u>November</u>		<u>December</u>		<u>January</u>		<u>February</u>		<u>March</u>		<u>Daily Total</u>	<u>Term Total</u>
	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
Total		<u>1,000</u>		<u>645</u>		<u>968</u>		<u>714</u>		<u>968</u>	<u>4,239</u>	<u>130,000</u>
		<u>30,000</u>		<u>20,000</u>		<u>30,000</u>		<u>20,000</u>		<u>30,000</u>		<u>130,000</u>

Units - Call Options (Daily Volume)

	<u>November</u>		<u>December</u>		<u>January</u>		<u>February</u>		<u>March</u>		<u>Daily Total</u>	<u>Term Total</u>
	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>	<u>Contract Date</u>	<u>Daily Volume</u>		
1												
2												
3												
4												
5												
6												
Total		<u>1,000</u>		<u>1,290</u>		<u>1,613</u>		<u>1,429</u>		<u>1,290</u>	<u>6,622</u>	<u>200,000</u>
		<u>30,000</u>		<u>40,000</u>		<u>50,000</u>		<u>40,000</u>		<u>40,000</u>		<u>200,000</u>

Premium - Call Option (Monthly Cost)

	<u>November</u>		<u>December</u>		<u>January</u>		<u>February</u>		<u>March</u>		<u>Total</u>	
	<u>Option Premium</u>	<u>Premium Cost</u>	<u>Option Premium</u>	<u>Premium Cost</u>	<u>Option Premium</u>	<u>Premium Cost</u>	<u>Option Premium</u>	<u>Premium Cost</u>	<u>Option Premium</u>	<u>Premium Cost</u>	<u>Option Premium</u>	<u>Premium Cost</u>
1												
2												
3												
4												
5												
6												
Total	<u>\$ 0.3146</u>	<u>\$ 9,437</u>	<u>\$ 0.3341</u>	<u>\$ 13,366</u>	<u>\$ 0.4097</u>	<u>\$ 20,486</u>	<u>\$ 0.4618</u>	<u>\$ 18,472</u>	<u>\$ 0.4563</u>	<u>\$ 18,254</u>	<u>\$ 0.4001</u>	<u>\$ 80,014</u>

Units - Collar Floor (put)

No Puts were purchased.

TRADE SECRET DATA ENDS]

**Attachment 6
Peoples' Great Lakes Area Demand Entitlements Historical and Current Proposal**

Attachment 6
GLGT

MINNESOTA ENERGY RESOURCES - PNG

2007-08		2008-09	
G011/M-07-1404	Quantity (Mcf)	G011/M-08-1330	Quantity (Mcf)
T-17	4,105	FT0017	4,105
FT-075 Res fee	1,973	FT0075	1,973
FT-155 (12)	2,422	FT0155	2,422
FT-155 (5)	1,500	FT0155	1,500
FT0011	423	FT0011	0
TF8466	0	FT8466	500
Total Design Day Capacity	10,423	Total Design Day Capacity	10,500
Total GL Transportation	10,423	Total GL Transportation	10,500
Total Transportation	10,000	Total Transportation	10,500
Total Seasonal Transport	1,500	Total Seasonal Transport	1,500
Percent Seasonal on GL	14.4%	Percent Seasonal on GL	14.3%

2009-10		2010-11		Change in Quantity
G011/M-09-	Quantity (Mcf)	G011/M-10-	Quantity (Mcf)	
FT0017	4,105	FT0017	4,105	0
FT0075	1,973	FT0075	1,973	0
FT0155	2,422	FT0155	2,422	0
FT0155	1,500	FT0155	1,500	0
FT0011	0	FT0011	0	0
FT8466	1,500	FT8466	1,500	0
Total Design Day Capacity	11,500	Total Design Day Capacity	11,500	0
Total GL Transportation	11,500	Total GL Transportation	11,500	0
Total Transportation	11,500	Total Transportation	11,500	0
Total Seasonal Transport	1,500	Total Seasonal Transport	1,500	0
Percent Seasonal on GL	13.0%	Percent Seasonal on GL	13.0%	0.0%

MINNESOTA ENERGY RESOURCES - PNG

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
General Service	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost of Gas	\$0.8348	\$0.7964	\$0.7613	\$0.8421	0.88%	5.74%	10.62%	\$0.0808
Commodity Margin	\$1.6263	\$1.6263	\$1.7746	\$1.7746	9.12%	9.12%	0.00%	\$0.0000
Total Recovery	\$10.7901	\$6.0894	\$6.3109	\$6.3013	-41.60%	3.48%	-0.15%	(\$0.0096)
Average Annual Usage (Mcf)	146	146	146	146				
Average Annual Bill^	\$1,575.35	\$889.05	\$921.39	\$919.99	-41.60%	3.48%	-0.15%	(\$1.40)

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
Small Volume Interruptible	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost of Gas					0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Total Recovery	\$9.5724	\$4.9101	\$4.9431	\$4.8527	-49.31%	-1.17%	-1.83%	(\$0.0904)
Average Annual Usage (Mcf)	4,036	4,036	4,036	4,036				
Average Annual Bill^	\$38,634.21	\$19,817.16	\$19,950.35	\$19,585.36	-49.31%	-1.17%	-1.83%	(\$365.00)

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
Small Volume Firm	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.6846	-55.76%	0.49%	-2.40%	(\$0.0904)
Demand Cost of Gas	\$3.4580	\$3.4580	\$3.4580	\$3.4580	0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Demand Margin	\$2.0724	\$2.0724	\$1.8000	\$1.8000	-13.14%	-13.14%	0.00%	\$0.0000
Total Commodity Cost	\$9.5724	\$4.9101	\$4.9431	\$4.8527	-49.31%	-1.17%	-1.83%	(\$0.0904)
Total Demand Cost	\$5.5304	\$5.5304	\$5.2580	\$5.2580	-4.93%	-4.93%	0.00%	\$0.0000
Total Recovery	\$30.2056	\$20.8810	\$20.4022	\$20.2213	-33.05%	-3.16%	-0.89%	(\$0.1809)
Average Annual Usage (Mcf)	5,462	5,462	5,462	5,462				
Average Annual CD units (Mcf)	50	50	50	50				
Average Annual Commodity Bill^	\$52,561	\$27,095.49	\$27,262	\$26,768	-49.07%	-1.21%	-1.81%	(\$493.96)

	Commodity Change (\$/Mcf)	Commodity Change (%)	Demand Change (\$/Mcf)	Demand Change (%)	Total Change (\$/Mcf)	Total Change (%)
Summary						
General Service	(\$0.0904)	-2.40%	\$0.0808	10.62%	(\$0.0096)	-0.15%
Small Volume Interruptible	(\$0.0904)	-2.40%	\$0.0000	0.00%	(\$0.0904)	-1.83%
Small/Large Volume Firm	(\$0.0904)	0.00%	\$0.0000	0.00%	(\$0.1809)	-0.89%

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

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

MINNESOTA ENERGY RESOURCES - PNG

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
General Service	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost of Gas	\$0.8348	\$0.7964	\$0.7613	\$0.5053	-39.47%	-36.55%	-33.63%	(\$0.2560)
Commodity Margin	\$1.6263	\$1.6263	\$1.7746	\$1.7746	9.12%	9.12%	0.00%	\$0.0000
Total Recovery	\$10.7901	\$6.0894	\$6.3109	\$6.2375	-42.19%	2.43%	-1.16%	(\$0.0734)
Average Annual Usage (Mcf)	146	146	146	146				
Average Annual Bill^	\$1,575.35	\$889.05	\$921.39	\$910.68	-42.19%	2.43%	-1.16%	(\$10.71)

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
Small Volume Interruptible	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost of Gas					0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Total Recovery	\$9.5724	\$4.9101	\$4.9431	\$5.1257	-46.45%	4.39%	3.69%	\$0.1826
Average Annual Usage (Mcf)	4,036	4,036	4,036	4,036				
Average Annual Bill^	\$38,634.21	\$19,817.16	\$19,950.35	\$20,687.46	-46.45%	4.39%	3.69%	\$737.11

	Base Cost of Gas Change	Last Demand Change	Most Recent PGA	Nov 1/10 PGA w/ Proposed Demand Changes**	% Change From Last Rate Case^^	% Change From Last Demand Filing	% Change From Last PGA	\$ Change From Last PGA
Small Volume Firm	G011/MR08-836^	M-09-XXXX	Oct 1/10					
Commodity Cost of Gas (WACOG)	\$8.3290	\$3.6667	\$3.7750	\$3.9576	-52.48%	7.93%	4.84%	\$0.1826
Demand Cost of Gas	\$3.4580	\$3.4580	\$3.4580	\$3.4580	0.00%	0.00%	0.00%	\$0.0000
Commodity Margin	\$1.2434	\$1.2434	\$1.1681	\$1.1681	-6.06%	-6.06%	0.00%	\$0.0000
Demand Margin	\$2.0724	\$2.0724	\$1.8000	\$1.8000	-13.14%	-13.14%	0.00%	\$0.0000
Total Commodity Cost	\$9.5724	\$4.9101	\$4.9431	\$5.1257	-46.45%	4.39%	3.69%	\$0.1826
Total Demand Cost	\$5.5304	\$5.5304	\$5.2580	\$5.2580	-4.93%	-4.93%	0.00%	\$0.0000
Total Recovery	\$30.2056	\$20.8810	\$20.4022	\$20.7675	-31.25%	-0.54%	1.79%	\$0.3653
Average Annual Usage (Mcf)	5,462	5,462	5,462	5,462				
Average Annual CD units (Mcf)	50	50	50	50				
Average Annual Commodity Bill^	\$52,561	\$27,095.49	\$27,262	\$28,260	-46.23%	4.30%	3.66%	\$997.55

	Commodity Change (\$/Mcf)	Commodity Change (%)	Demand Change (\$/Mcf)	Demand Change (%)	Total Change (\$/Mcf)	Total Change (%)
Summary						
General Service	\$0.1826	4.84%	(\$0.2560)	-33.63%	(\$0.0734)	-1.16%
Small Volume Interruptible	\$0.1826	4.84%	\$0.0000	0.00%	\$0.1826	3.69%
Small/Large Volume Firm	\$0.1826	0.00%	\$0.0000	0.00%	\$0.3653	1.79%

* Average Annual Bill amount does not include customer charges.

** Commodity includes Upstream costs.

MINNESOTA ENERGY RESOURCES - PNG

GLGT

Peoples Great Lakes -- Current Cost of Gas Effective

	Oct. 2010	Nov. 2010	Entitlement		Oct. 2010	Oct. 2010	Nov. 2010	Total Annual Cost
	Entitlements	Entitlements	Change	Months	Rate	Total Annual Cost	Total Annual Cost	Change
T-17 Demand	4,105	4,105	0	12	\$3.4580	\$170,341	\$170,341	\$0
FT-075- Res Fee	1,973	1,973	0	12	\$3.4580	\$81,872	\$81,872	\$0
FT-155 (12)	2,422	2,422	0	12	\$3.4580	\$100,503	\$100,503	\$0
FT-155 (5)	1,500	1,500	0	5	\$3.4580	\$25,935	\$25,935	\$0
FT-8466	1,500	1,500	0	12	\$3.4580	\$62,244	\$62,244	\$0
Nexen PSO	162508	0	-162,508	1	\$ 1.7700	\$287,639	\$ -	(\$287,639)
Niska Storage (AECO)	0	154,307	154,307	1	\$ 1.4296	\$0	\$220,597	\$220,597
AECO/Emerson Swap	0	154,301	154,301	1	\$ 0.4750	\$0	\$73,293	\$73,293
						<u>\$728,534</u>	<u>\$734,785</u>	<u>\$6,251</u>

MINNESOTA ENERGY RESOURCES

GLGT WINTER PLAN (PNG)

NOVEMBER, 2010 THROUGH MARCH, 2011

[TRADE SECRET DATA BEGINS

<u>PHYSICAL FIXED PRICE HEDGES - GLGT</u>	<u>Trigger</u>	<u>Trigger</u>		<u>Nov</u>	<u>Dec</u>	<u>Daily Volumes</u>			<u>Monthly</u>
<u>Deal #</u>	<u>Locked</u>	<u>Exercised</u>	<u>Receipt Point</u>			<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>

TRADE SECRET DATA ENDS]

MINNESOTA ENERGY RESOURCES - PNG

Daily Total Throughput Data - July 1, 2009 through June 30, 2010

Base	697
Variable	107

Date	100.00% Bemidji Adjusted HDD	0.00% Cloquet Adjusted HDD	100.00% Weighted Adjusted HDD	Actual Total Through- Put *	Estimated Through- Put
7/1/09	4	10	4	716	1,151
7/2/09	0	8	0	604	697
7/3/09	5	3	5	525	1,253
7/4/09	1	3	1	497	808
7/5/09	0	3	0	593	697
7/6/09	3	4	3	780	1,031
7/7/09	0	6	0	816	697
7/8/09	0	7	0	810	697
7/9/09	0	0	0	850	697
7/10/09	6	0	6	719	1,296
7/11/09	4	7	4	574	1,159
7/12/09	8	7	8	680	1,587
7/13/09	0	4	0	791	697
7/14/09	3	7	3	865	1,053
7/15/09	9	9	9	949	1,681
7/16/09	13	14	13	1,013	2,062
7/17/09	11	12	11	838	1,853
7/18/09	12	14	12	667	1,933
7/19/09	0	6	0	684	697
7/20/09	0	0	0	867	697
7/21/09	1	4	1	858	811
7/22/09	0	4	0	824	697
7/23/09	0	0	0	782	697
7/24/09	0	0	0	663	697
7/25/09	1	2	1	549	814
7/26/09	0	0	0	601	697
7/27/09	0	0	0	793	697
7/28/09	6	9	6	805	1,286
7/29/09	4	4	4	817	1,159
7/30/09	5	9	5	822	1,259
7/31/09	2	2	2	730	937
8/1/09	9	11	9	610	1,656
8/2/09	9	8	9	623	1,699
8/3/09	3	4	3	813	1,050
8/4/09	6	8	6	827	1,390
8/5/09	7	8	7	814	1,491
8/6/09	0	2	0	785	697
8/7/09	0	5	0	677	697
8/8/09	1	3	1	556	810
8/9/09	1	1	1	597	809
8/10/09	0	1	0	771	697
8/11/09	0	0	0	727	697
8/12/09	0	0	0	719	697
8/13/09	0	0	0	723	697
8/14/09	0	0	0	635	697
8/15/09	0	0	0	555	697
8/16/09	2	0	2	650	930
8/17/09	4	3	4	1,012	1,172

9/25/09	0	6	0	770	697
9/26/09	2	5	2	612	930
9/27/09	13	12	13	955	2,121
9/28/09	23	22	23	1,667	3,115
9/29/09	21	25	21	1,616	2,987
9/30/09	19	24	19	1,607	2,700
10/1/09	22	22	22	2,017	3,055
10/2/09	22	25	22	1,872	3,051
10/3/09	22	21	22	1,678	3,079
10/4/09	22	22	22	1,677	3,101
10/5/09	23	20	23	2,192	3,207
10/6/09	28	28	28	2,338	3,674
10/7/09	25	23	25	2,352	3,357
10/8/09	35	31	35	2,974	4,475
10/9/09	34	35	34	2,959	4,292
10/10/09	41	42	41	3,179	5,091
10/11/09	36	34	36	3,033	4,517
10/12/09	40	40	40	3,491	4,926
10/13/09	36	35	36	2,978	4,588
10/14/09	31	33	31	3,097	4,048
10/15/09	30	32	30	2,937	3,893
10/16/09	34	33	34	2,863	4,369
10/17/09	32	29	32	2,610	4,079
10/18/09	19	21	19	1,844	2,716
10/19/09	22	23	22	2,275	3,079
10/20/09	26	26	26	2,562	3,506
10/21/09	33	35	33	2,875	4,180
10/22/09	31	34	31	2,959	3,986
10/23/09	33	35	33	2,704	4,263
10/24/09	28	28	28	2,152	3,702
10/25/09	28	29	28	2,310	3,673
10/26/09	28	32	28	2,729	3,674
10/27/09	22	23	22	2,331	3,094
10/28/09	24	26	24	2,286	3,216
10/29/09	22	20	22	2,264	3,056
10/30/09	35	25	35	3,191	4,485
10/31/09	36	34	36	2,651	4,546
11/1/09	30	32	30	2,614	3,904
11/2/09	41	37	41	3,615	5,088
11/3/09	30	32	30	3,140	3,933
11/4/09	38	34	38	3,185	4,780
11/5/09	32	31	32	2,872	4,079
11/6/09	21	20	21	2,156	2,893
11/7/09	24	21	24	1,950	3,239
11/8/09	24	27	24	2,431	3,256
11/9/09	28	27	28	2,475	3,702
11/10/09	16	20	16	2,191	2,390
11/11/09	19	20	19	1,880	2,698
11/12/09	21	20	21	2,057	2,987
11/13/09	28	22	28	2,427	3,646
11/14/09	36	36	36	2,731	4,553
11/15/09	34	34	34	2,939	4,369
11/16/09	30	33	30	3,084	3,924
11/17/09	32	32	32	3,062	4,100
11/18/09	30	29	30	3,019	3,924
11/19/09	29	25	29	3,025	3,783
11/20/09	30	32	30	3,027	3,924
11/21/09	25	30	25	2,337	3,357
11/22/09	30	20	30	2,644	3,924
11/23/09	26	23	26	2,741	3,506
11/24/09	32	27	32	3,098	4,147
11/25/09	41	39	41	3,629	5,050

1/2/10	84	82	84	8,941	9,685
1/3/10	81	82	81	8,885	9,364
1/4/10	80	75	80	8,521	9,235
1/5/10	68	68	68	7,479	7,938
1/6/10	65	65	65	7,301	7,695
1/7/10	79	75	79	8,097	9,171
1/8/10	77	74	77	8,144	8,883
1/9/10	73	69	73	7,146	8,555
1/10/10	55	61	55	6,028	6,536
1/11/10	58	56	58	5,839	6,876
1/12/10	45	55	45	5,236	5,551
1/13/10	44	48	44	4,756	5,362
1/14/10	50	52	50	5,366	6,062
1/15/10	40	54	40	4,367	4,973
1/16/10	33	41	33	3,826	4,279
1/17/10	39	38	39	4,158	4,819
1/18/10	48	44	48	5,023	5,877
1/19/10	52	51	52	5,437	6,210
1/20/10	47	50	47	5,076	5,758
1/21/10	45	45	45	4,969	5,551
1/22/10	40	40	40	4,441	4,966
1/23/10	34	36	34	3,912	4,361
1/24/10	46	43	46	4,551	5,662
1/25/10	70	62	70	6,698	8,138
1/26/10	76	70	76	7,618	8,818
1/27/10	80	78	80	7,879	9,248
1/28/10	76	77	76	7,932	8,786
1/29/10	69	72	69	7,280	8,081
1/30/10	72	70	72	7,168	8,410
1/31/10	73	71	73	7,591	8,522
2/1/10	65	64	65	7,047	7,613
2/2/10	63	63	63	6,861	7,397
2/3/10	57	58	57	6,226	6,764
2/4/10	46	45	46	5,180	5,620
2/5/10	45	47	45	4,857	5,551
2/6/10	47	48	47	5,009	5,687
2/7/10	51	50	51	5,292	6,160
2/8/10	59	52	59	5,735	6,995
2/9/10	67	60	67	6,508	7,861
2/10/10	63	60	63	6,616	7,438
2/11/10	58	57	58	6,162	6,918
2/12/10	53	57	53	5,718	6,372
2/13/10	52	53	52	5,347	6,255
2/14/10	55	58	55	5,749	6,552
2/15/10	57	52	57	5,559	6,754
2/16/10	56	48	56	5,419	6,706
2/17/10	50	45	50	5,231	6,090
2/18/10	50	45	50	5,222	6,038
2/19/10	52	44	52	5,107	6,261
2/20/10	49	45	49	4,976	5,927
2/21/10	53	46	53	5,320	6,315
2/22/10	56	49	56	5,292	6,650
2/23/10	76	66	76	6,943	8,786
2/24/10	65	62	65	6,515	7,682
2/25/10	57	60	57	5,796	6,817
2/26/10	56	47	56	5,438	6,641
2/27/10	50	41	50	4,738	6,097
2/28/10	46	46	46	4,487	5,608
3/1/10	40	43	40	4,239	5,020
3/2/10	38	38	38	4,125	4,814
3/3/10	41	37	41	4,010	5,105
3/4/10	40	37	40	3,761	4,973

4/11/10	15	15	15	1,866	2,285
4/12/10	18	21	18	2,130	2,632
4/13/10	20	26	20	2,039	2,843
4/14/10	3	17	3	1,293	1,053
4/15/10	24	12	24	1,872	3,222
4/16/10	26	23	26	2,298	3,522
4/17/10	21	22	21	1,889	2,901
4/18/10	13	22	13	1,468	2,116
4/19/10	18	21	18	1,433	2,571
4/20/10	13	16	13	1,380	2,084
4/21/10	22	33	22	1,780	3,056
4/22/10	19	22	19	1,560	2,681
4/23/10	5	8	5	1,101	1,264
4/24/10	15	22	15	1,450	2,300
4/25/10	16	25	16	1,433	2,398
4/26/10	15	24	15	1,456	2,315
4/27/10	17	26	17	1,372	2,512
4/28/10	12	19	12	1,343	1,949
4/29/10	17	22	17	1,808	2,546
4/30/10	18	18	18	1,659	2,625
5/1/10	24	19	24	1,980	3,286
5/2/10	27	18	27	2,262	3,599
5/3/10	28	27	28	2,410	3,674
5/4/10	16	21	16	1,877	2,446
5/5/10	24	26	24	2,219	3,239
5/6/10	24	23	24	2,169	3,306
5/7/10	32	36	32	2,953	4,132
5/8/10	30	30	30	2,079	3,873
5/9/10	19	22	19	1,489	2,739
5/10/10	19	20	19	1,669	2,716
5/11/10	25	26	25	2,434	3,379
5/12/10	17	20	17	1,698	2,546
5/13/10	26	25	26	2,224	3,470
5/14/10	11	20	11	1,195	1,821
5/15/10	7	12	7	841	1,483
5/16/10	8	6	8	827	1,570
5/17/10	6	10	6	755	1,352
5/18/10	5	9	5	726	1,259
5/19/10	5	5	5	793	1,259
5/20/10	0	6	0	735	697
5/21/10	4	11	4	728	1,155
5/22/10	2	6	2	662	939
5/23/10	0	0	0	636	697
5/24/10	0	5	0	710	697
5/25/10	2	0	2	707	930
5/26/10	6	6	6	749	1,365
5/27/10	0	2	0	731	697
5/28/10	0	6	0	723	697
5/29/10	0	2	0	596	697
5/30/10	13	7	13	715	2,084
5/31/10	5	2	5	671	1,269
6/1/10	17	8	17	881	2,512
6/2/10	14	13	14	838	2,240
6/3/10	0	3	0	743	697
6/4/10	3	7	3	706	1,050
6/5/10	5	7	5	650	1,264
6/6/10	10	19	10	741	1,799
6/7/10	1	5	1	709	811
6/8/10	9	13	9	845	1,621
6/9/10	13	11	13	968	2,109
6/10/10	9	13	9	982	1,630
6/11/10	7	13	7	896	1,498

MINNESOTA ENERGY RESOURCES - PNG

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

Rate Class	Tariff Rate Designation	Jul-09 Average Customers	Aug-09 Average Customers	Sep-09 Average Customers	Oct-09 Average Customers	Nov-09 Average Customers	Dec-09 Average Customers	Jan-10 Average Customers	Feb-10 Average Customers	Mar-10 Average Customers	Apr-10 Average Customers	May-10 Average Customers	Jun-10 Average Customers
Residential w/ Heat	MN006	4,892	4,834	4,803	4,868	5,013	5,066	5,080	5,089	5,078	5,082	5,088	5,052
Residential w/o Heat	MN005	36	34	35	38	35	35	38	37	37	37	37	36
Commercial-SV	MN052/074	415	412	416	417	425	439	439	437	438	438	447	448
Commercial-LV	MN062/075	510	509	507	509	511	515	514	521	517	517	496	498
SV-Joint	MN106	5	5	5	5	5	5	5	5	5	5	5	6
SV-Interruptible	MN127	5	5	5	5	5	5	5	5	5	5	5	5
Transport	MN509/83L	1	1	1	1	0	1	0	1	1	1	2	2
Total		5,864	5,800	5,772	5,843	5,994	6,066	6,081	6,095	6,081	6,085	6,080	6,047

MINNESOTA ENERGY RESOURCES - PNG

Projected Fixed Cost - November 2010 through March 2011

Futures Contracts WACOG

Purchase Date	30						31						31							
	Nov-10						Dec-10						Jan-11							
Financial Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	Purchase Date	Financial Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	Purchase Date	Financial Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	
05/18/10	5,769	\$ 4.9860	\$ 28,765	\$ 3.4412	\$ 19,853	\$ 8,912	05/20/10	500	\$ 5.1600	\$ 2,580	\$ 3.9089	\$ 1,954	\$ 626	05/21/10	4,348	\$ 5.3350	\$ 23,196	\$ 4.0860	\$ 17,765	\$ 5,431
06/18/10	769	\$ 5.4020	\$ 4,155	\$ 3.4412	\$ 2,647	\$ 1,508	05/20/10	500	\$ 5.1610	\$ 2,580	\$ 3.9089	\$ 1,954	\$ 626	05/21/10	435	\$ 5.3370	\$ 2,320	\$ 4.0860	\$ 1,776	\$ 544
06/18/10	5,385	\$ 5.4040	\$ 29,098	\$ 3.4412	\$ 18,529	\$ 10,569	05/20/10	1,000	\$ 5.1620	\$ 5,162	\$ 3.9089	\$ 3,909	\$ 1,253	06/28/10	435	\$ 5.6450	\$ 2,454	\$ 4.0860	\$ 1,776	\$ 678
07/08/10	5,385	\$ 4.8260	\$ 25,986	\$ 3.4412	\$ 18,529	\$ 7,457	05/20/10	500	\$ 5.1630	\$ 2,581	\$ 3.9089	\$ 1,954	\$ 627	06/28/10	1,739	\$ 5.6460	\$ 9,819	\$ 4.0860	\$ 7,106	\$ 2,713
08/05/10	4,615	\$ 4.8000	\$ 22,154	\$ 3.4412	\$ 15,882	\$ 6,271	05/20/10	2,000	\$ 5.1640	\$ 10,328	\$ 3.9089	\$ 7,818	\$ 2,510	06/28/10	4,348	\$ 5.6490	\$ 24,561	\$ 4.0860	\$ 17,765	\$ 6,796
09/27/10	4,231	\$ 3.8710	\$ 16,377	\$ 3.4412	\$ 14,559	\$ 1,818	06/29/10	5,500	\$ 5.2840	\$ 29,062	\$ 3.9089	\$ 21,499	\$ 7,563	07/29/10	2,609	\$ 5.2910	\$ 13,803	\$ 4.0860	\$ 10,659	\$ 3,144
10/05/10	1,154	\$ 3.7240	\$ 4,297	\$ 3.4412	\$ 3,971	\$ 326	07/29/10	3,500	\$ 5.1650	\$ 18,077	\$ 3.9089	\$ 13,681	\$ 4,396	07/29/10	435	\$ 5.2920	\$ 2,301	\$ 4.0860	\$ 1,776	\$ 524
10/05/10	2,692	\$ 3.7250	\$ 10,029	\$ 3.4412	\$ 9,265	\$ 764	08/06/10	2,500	\$ 4.9940	\$ 12,485	\$ 3.9089	\$ 9,772	\$ 2,713	07/29/10	435	\$ 5.2930	\$ 2,301	\$ 4.0860	\$ 1,776	\$ 525
							09/14/10	2,000	\$ 4.3490	\$ 8,698	\$ 3.9089	\$ 7,818	\$ 880	07/29/10	2,174	\$ 5.2940	\$ 11,509	\$ 4.0860	\$ 8,883	\$ 2,626
							10/07/10	2,000	\$ 4.0600	\$ 8,120	\$ 3.9089	\$ 7,818	\$ 302	08/10/10	1,304	\$ 4.9870	\$ 6,505	\$ 4.0860	\$ 5,330	\$ 1,175
													08/10/10	435	\$ 4.9880	\$ 2,169	\$ 4.0860	\$ 1,776	\$ 392	
													08/10/10	870	\$ 4.9890	\$ 4,338	\$ 4.0860	\$ 3,553	\$ 785	
													08/10/10	2,174	\$ 4.9900	\$ 10,848	\$ 4.0860	\$ 8,883	\$ 1,965	
													09/27/10	3,478	\$ 4.3120	\$ 14,998	\$ 4.0860	\$ 14,212	\$ 786	
													09/27/10	870	\$ 4.3130	\$ 3,750	\$ 4.0860	\$ 3,553	\$ 197	
													10/07/10	2,174	\$ 4.2450	\$ 9,228	\$ 4.0860	\$ 8,883	\$ 346	
													10/07/10	1,739	\$ 4.2460	\$ 7,384	\$ 4.0860	\$ 7,106	\$ 278	
Total WACOG	30,000		\$ 140,862		\$ 103,236	\$ 37,627		20,000		\$ 99,674		\$ 78,178	\$ 21,497	30,000		\$ 151,485		\$ 122,579	\$ 28,906	
			\$ 4.6954		\$ 3.4412	\$ 1.2542				\$ 4.9837		\$ 3.9089	\$ 1.0748			\$ 5.0495		\$ 4.0860	\$ 0.9635	

Purchase Date	28						31						Total						
	Feb-10						Mar-11												
Physical Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	Purchase Date	Physical Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	Financial Volume	Purchase Price	Total Cost	Indexes	Index Cost	Over/(Under) Market	
05/24/10	1,250	\$ 5.2550	\$ 6,569	\$ 4.0812	\$ 5,102	\$ 1,467	05/14/10	4,149	\$ 5.4850	\$ 22,757	\$ 3.9859	\$ 16,537	\$ 6,220	16,016	\$ 5.2364	\$ 83,867	\$ 3.8219	\$ 61,211	\$ 22,656
05/24/10	625	\$ 5.2560	\$ 3,285	\$ 4.0812	\$ 2,551	\$ 734	05/14/10	957	\$ 5.4880	\$ 5,254	\$ 3.9859	\$ 3,816	\$ 1,438	3,286	\$ 5.3540	\$ 17,596	\$ 3.8780	\$ 12,745	\$ 4,851
05/24/10	2,500	\$ 5.2570	\$ 13,142	\$ 4.0812	\$ 10,203	\$ 2,939	06/21/10	6,064	\$ 5.5150	\$ 33,442	\$ 3.9859	\$ 24,170	\$ 9,272	15,383	\$ 5.4149	\$ 83,299	\$ 3.8085	\$ 58,588	\$ 24,712
06/10/10	5,625	\$ 5.5990	\$ 31,494	\$ 4.0812	\$ 22,957	\$ 8,538	07/29/10	2,553	\$ 5.1410	\$ 13,126	\$ 3.9859	\$ 10,177	\$ 2,949	15,802	\$ 5.2530	\$ 83,007	\$ 3.8428	\$ 60,723	\$ 22,284
07/29/10	3,750	\$ 5.2390	\$ 19,646	\$ 4.0812	\$ 15,305	\$ 4,342	07/29/10	3,191	\$ 5.1420	\$ 16,411	\$ 3.9859	\$ 12,721	\$ 3,690	17,905	\$ 5.1997	\$ 93,100	\$ 3.8811	\$ 69,491	\$ 23,609
08/09/10	2,500	\$ 4.9990	\$ 12,497	\$ 4.0812	\$ 10,203	\$ 2,294	08/19/10	638	\$ 4.7080	\$ 3,005	\$ 3.9859	\$ 2,544	\$ 461	15,478	\$ 4.8292	\$ 74,745	\$ 3.8419	\$ 59,464	\$ 15,281
09/29/10	1,875	\$ 4.3150	\$ 8,091	\$ 4.0812	\$ 7,652	\$ 438	08/19/10	638	\$ 4.7090	\$ 3,006	\$ 3.9859	\$ 2,544	\$ 462	7,602	\$ 4.7056	\$ 35,772	\$ 3.8970	\$ 29,625	\$ 6,147
10/07/10	1,875	\$ 4.2630	\$ 7,993	\$ 4.0812	\$ 7,652	\$ 341	08/19/10	3,511	\$ 4.7100	\$ 16,535	\$ 3.9859	\$ 13,993	\$ 2,542	11,013	\$ 4.4806	\$ 49,343	\$ 3.8554	\$ 42,459	\$ 6,885
							09/27/10	4,149	\$ 4.2640	\$ 17,691	\$ 3.9859	\$ 16,537	\$ 1,154	8,323	\$ 4.5535	\$ 37,898	\$ 3.9935	\$ 33,237	\$ 4,660
							10/07/10	3,511	\$ 4.2350	\$ 14,868	\$ 3.9859	\$ 13,993	\$ 875	6,815	\$ 4.3276	\$ 29,492	\$ 3.9824	\$ 27,140	\$ 2,352
							10/07/10	638	\$ 4.2390	\$ 2,706	\$ 3.9859	\$ 2,544	\$ 162	1,073	\$ 4.5425	\$ 4,874	\$ 4.0264	\$ 4,321	\$ 554
													870	\$ 4.9890	\$ 4,338	\$ 4.0860	\$ 3,553	\$ 785	
													2,174	\$ 4.9900	\$ 10,848	\$ 4.0860	\$ 8,883	\$ 1,965	
													3,478	\$ 4.3120	\$ 14,998	\$ 4.0860	\$ 14,212	\$ 786	
													870	\$ 4.3130	\$ 3,750	\$ 4.0860	\$ 3,553	\$ 197	
													2,174	\$ 4.2450	\$ 9,228	\$ 4.0860	\$ 8,883	\$ 346	
													1,739	\$ 4.2460	\$ 7,384	\$ 4.0860	\$ 7,106	\$ 278	
Total WACOG	20,000		\$ 102,718		\$ 81,624	\$ 21,094		30,000		\$ 148,800		\$ 119,576	\$ 29,224	130,000		\$ 643,540		\$ 505,193	\$ 138,069
			\$ 5.1359		\$ 4.0812	\$ 1.0547				\$ 4.9600		\$ 3.9859	\$ 0.9741			\$ 4.9503		\$ 3.8861	\$ 1.0621

MINNESOTA ENERGY RESOURCES - PNG

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

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	455,259	39,000	494,259	\$ 4.0923	\$ 4.0923	\$ 1,863,052	\$ 159,599	\$ 2,022,651	94,773	\$ 3.7863	\$ 358,837
Dec-10	1,143,984	98,000	1,241,984	\$ 4.0923	\$ 4.0923	\$ 4,681,515	\$ 401,044	\$ 5,082,559	260,095	\$ 3.7863	\$ 984,793
Jan-11	1,143,984	98,000	1,241,984	\$ 4.0923	\$ 4.0923	\$ 4,681,515	\$ 401,044	\$ 5,082,559	260,095	\$ 3.7863	\$ 984,793
Feb-11	1,143,984	98,000	1,241,984	\$ 4.0923	\$ 4.0923	\$ 4,681,515	\$ 401,044	\$ 5,082,559	234,925	\$ 3.7863	\$ 889,492
Mar-11	455,259	39,000	494,259	\$ 4.0923	\$ 4.0923	\$ 1,863,052	\$ 159,599	\$ 2,022,651	97,932	\$ 3.7863	\$ 370,798
Total	4,342,470	372,000	4,714,470	\$ 4.0923	\$ 4.0923	\$ 17,770,648	\$ 1,522,332	\$ 19,292,980	947,820	\$ 3.7863	\$ 3,588,712

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 Market WACOG	Total AECO Storage Market Cost
Nov-10	494,259	\$ 3.6890	\$ 1,823,321	94,773	\$ 3.7065	\$ 351,276	94,773	\$ 3.7863	\$ 358,837	\$ 3.7065	\$ 351,276
Dec-10	1,241,984	\$ 4.0684	\$ 5,052,852	260,095	\$ 4.1445	\$ 1,077,964	260,095	\$ 3.7863	\$ 984,793	\$ 4.1445	\$ 1,077,964
Jan-11	1,241,984	\$ 4.3351	\$ 5,384,181	260,095	\$ 4.2080	\$ 1,094,480	260,095	\$ 3.7863	\$ 984,793	\$ 4.2080	\$ 1,094,480
Feb-11	1,241,984	\$ 4.3571	\$ 5,411,451	234,925	\$ 4.2170	\$ 990,679	234,925	\$ 3.7863	\$ 889,492	\$ 4.2170	\$ 990,679
Mar-11	494,259	\$ 4.2157	\$ 2,083,645	97,932	\$ 4.1795	\$ 409,307	97,932	\$ 3.7863	\$ 370,798	\$ 4.1795	\$ 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 Storage (Storage plan withdrawals through Apr 10) 4,714,470 5,069,321 10/31/09 Storage Balance - NNG (estimate) 5,069,321 100.00% 4,714,470
 Max Nexen Emerson 947,820 10/31/09 PSO Balance - Nexen Emerson 947,820

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 PNG Cost	NNG Index NMU Cost	NNG Index Total Cost
Nov-10	455,259	39,000	494,259	429,894	44,865	474,759	\$ 4.0923	\$ 4.0923	\$ 1,759,251	\$ 183,601	\$ 1,942,852	\$ 3.6890	\$ 1,585,879	\$ 165,507	\$ 1,751,386
Dec-10	1,143,984	98,000	1,241,984	1,080,247	112,737	1,192,984	\$ 4.0923	\$ 4.0923	\$ 4,420,684	\$ 461,353	\$ 4,882,037	\$ 4.0684	\$ 4,394,846	\$ 458,656	\$ 4,853,502
Jan-11	1,143,984	98,000	1,241,984	1,080,247	112,737	1,192,984	\$ 4.0923	\$ 4.0923	\$ 4,420,684	\$ 461,353	\$ 4,882,037	\$ 4.3351	\$ 4,683,028	\$ 488,731	\$ 5,171,759
Feb-11	1,143,984	98,000	1,241,984	1,080,247	112,737	1,192,984	\$ 4.0923	\$ 4.0923	\$ 4,420,684	\$ 461,353	\$ 4,882,037	\$ 4.3571	\$ 4,706,747	\$ 491,207	\$ 5,197,953
Mar-11	455,259	39,000	494,259	429,894	44,865	474,759	\$ 4.0923	\$ 4.0923	\$ 1,759,251	\$ 183,601	\$ 1,942,852	\$ 4.2157	\$ 1,812,301	\$ 189,137	\$ 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	\$ 1,751,259	\$ 18,531,814	\$ 4.1904	\$ 17,182,800	\$ 1,793,238	\$ 18,976,038

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 PNG Cost	GLGT NMU Cost	VGT PNG Cost	VGT NMU Cost	Centra NMU Cost	Total Nexen Cost
Nov-10	94,773	15,429	27,626	12,846	21,064	17,808	94,773	\$ 3.7863	\$ 58,420	\$ 104,600	\$ 48,637	\$ 79,753	\$ 67,427	\$ 358,837
Dec-10	260,095	42,344	75,817	35,254	57,807	48,873	260,095	\$ 3.7863	\$ 160,327	\$ 287,063	\$ 133,481	\$ 218,875	\$ 185,048	\$ 984,793
Jan-11	260,095	42,344	75,817	35,254	57,807	48,873	260,095	\$ 3.7863	\$ 160,327	\$ 287,063	\$ 133,481	\$ 218,875	\$ 185,048	\$ 984,793
Feb-11	234,925	38,246	68,480	31,842	52,213	44,144	234,925	\$ 3.7863	\$ 144,811	\$ 259,283	\$ 120,563	\$ 197,694	\$ 167,140	\$ 889,492
Mar-11	97,932	15,944	28,547	13,274	21,766	18,402	97,932	\$ 3.7863	\$ 60,367	\$ 108,086	\$ 50,259	\$ 82,411	\$ 69,675	\$ 370,798
Total	947,820	154,307	276,286	128,469	210,657	178,101	947,820	\$ 3.7863	\$ 584,251	\$ 1,046,095	\$ 486,421	\$ 797,607	\$ 674,339	\$ 3,588,712

16.28% 29.15% 13.55% 22.23% 18.79% 100.00% \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 3.7863 \$ 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	94,773	15,429	27,626	12,846	21,064	17,808	94,773	\$ 3.7065	\$ 57,189	\$ 102,396	\$ 47,613	\$ 78,073	\$ 66,007	\$ 351,276
Dec-10	260,095	42,344	75,817	35,254	57,807	48,873	260,095	\$ 4.1445	\$ 175,495	\$ 314,222	\$ 146,109	\$ 239,582	\$ 202,555	\$ 1,077,964
Jan-11	260,095	42,344	75,817	35,254	57,807	48,873	260,095	\$ 4.2080	\$ 178,184	\$ 319,036	\$ 148,348	\$ 243,253	\$ 205,659	\$ 1,094,480
Feb-11	234,925	38,246	68,480	31,842	52,213	44,144	234,925	\$ 4.2170	\$ 161,285	\$ 288,779	\$ 134,278	\$ 220,183	\$ 186,154	\$ 990,679
Mar-11	97,932	15,944	28,547	13,274	21,766	18,402	97,932	\$ 4.1795	\$ 66,636	\$ 119,311	\$ 55,478	\$ 90,970	\$ 76,911	\$ 409,307
Total	947,820	154,307	276,286	128,469	210,657	178,101	947,820	\$ 4.1397	\$ 638,788	\$ 1,143,744	\$ 531,826	\$ 872,061	\$ 737,286	\$ 3,923,705

16.28% 29.15% 13.55% 22.23% 18.79% 100.00% \$ 4.1397 \$ 4.1397 \$ 4.1397 \$ 4.1397 \$ 4.1397 \$ 4.1397

