

Minnesota Energy Resources Corporation

2685 145th Street West Rosemount, MN 55068 www.minnesotaenergyresources.com

September 1, 2020

VIA ELECTRONIC FILING

Will Seuffert Executive Secretary Minnesota Public Utilities Commission 121 Seventh Place East, Suite 350 St. Paul, MN 55101

PUBLIC DOCUMENT – TRADE SECRET DATA HAS BEEN EXCISED

Re: Minnesota Energy Resources Corporation – NNG's 2020 Annual Automatic

Adjustment Report

Docket No. G999/AA-20-172

Dear Mr. Seuffert:

Minnesota Energy Resources Corporation – NNG ("MERC-NNG" or the "Company") submits to the Minnesota Public Utilities Commission (the "Commission") the following reports:

Minnesota Rule 7825.2800 – Procurement Policies of Gas Supply.

Minnesota Rule 7825.2810 – Automatic Adjustment Charges.

Minnesota Rule 7825.2820 – Annual Auditor's Report.

Minnesota Rule 7825.2830 – Statement on Gas Cost Projection.

MERC acquired Interstate Power & Light Company's Minnesota natural gas operations and customers in 2015. The Commission's Order Approving Sale Subject to Conditions in Docket No. G001,011/PA-14-107, required MERC to maintain the transitioned customers on a separate PGA (MERC-NNG-Albert Lea). Pursuant to the Commission's Order in Docket No. G011/GR-15-736, the NNG and NNG-Albert Lea PGAs were consolidated effective July 1, 2017.

In Docket No. G999/AA-14-580, MERC agreed in its Reply Comments filed May 15, 2015, to "request that its auditor review the cost allocations between PGAs for future true-up filings and address any concerns regarding cost-allocations in the audit report to be filed with the AAA report." All gas revenues are directly assigned (not allocated) to each PGA system based on the interstate pipeline system(s) town border station that supply gas to the customers' meter. All gas purchase costs, except for costs and credits associated with financial hedging options, are directly assigned (not allocated) to each PGA system based on the interstate pipeline system(s) and town border stations that supply each PGA system. The financial hedging option costs and credits are allocated among the two PGA systems based on each respective PGA system's percent of total MERC sales. The monthly gas commodity costs

Mr. Will Seuffert September 1, 2020 Page 2

("Commodity \$") listed on Schedule C & D, page 1 of 1, are inclusive of any applicable financial hedging option costs and/or credits. The individual costs resulting in the total monthly Commodity \$ amounts, including financial hedging costs/credits and the allocation of those costs/credits, were included in the scope of the audit.

In its February 27, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2017 True-Up Proposals and Setting Further Requirements, in Docket No. G999/AA-17-493, the Commission required each utility to provide information regarding unauthorized gas use. Additionally, the Commission required that MERC include totals for Schedule Q, Third Party Damage in all future AAA Reports. MERC addresses each of these requirements. Finally, the Commission required that MERC file a report on the results of its investigation into lost and unaccounted for ("LUF") gas with its 2019 AAA report on or before September 3, 2019, which MERC addressed in Docket No. G011/AA-19-401. The Commission further required that each utility that hedges (including physical and financial) continue to provide a post-mortem analysis, in a format similar to what was provided in that docket. Finally, the Commission required that going forward, all regulated utilities identify each non-standard prior-period adjustment made in an annual true-up filing, demonstrate whether such adjustment is subject to a Minnesota rule (e.g., Billing Error Rule, Minn. R. 7820.4000, Approval for Automatic Adjustment of Charges Minn. R. 7825.2920, or some other Rule), and demonstrate the reasonableness of each such adjustment.

In its November 6, 2019, Order Approving Modification of Curtailment Penalties and Tariffs and Requiring Reports, in Docket No. G999/CI-19-160, the Commission required each utility to provide annually in their September 1 AAA report filings, complete analyses of circumstances when an interruptible customer fails to curtail twice, or a single noncompliant event is significant. MERC addresses this requirement in the attached report.

In its November 13, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2018 True-Up Proposals and Setting Further Requirements, in Docket No. G999/AA-18-374, the Commission required that MERC include both a discussion regarding its treatment of recovery of gas losses due to contractor main strikes, as well as totals for Schedule Q, Third Party Damage in all future AAA Reports. MERC addresses each of these requirements.

The nonpublic version of the filing contains trade secret information. Specifically, Schedules L and Q of the Automatic Adjustment Charges contain information that is not generally known to and not readily ascertainable by vendors or competitors of MERC, who could obtain economic value from its disclosure. MERC maintains this information as secret. Accordingly the attached document contains data that qualify as "Trade Secret Data" pursuant to Minnesota Statutes section 13.37, subdivision 1(b).

In accordance with Minnesota Rule 7825.2840, a notice of availability of the above reports has been sent to all intervenors in the Company's previous two rate cases.

Mr. Will Seuffert September 1, 2020 Page 3

Please contact me at <u>Joylyn.HoffmanMalueg@wecenergygroup.com</u> or (414) 221-4208 if you have any questions regarding the information in this filing. Thank you for your attention to this matter.

Sincerely,

Joylyn C. Hoffman Malueg

Joseph C. Hogona Malueg

Project Specialist 3

Enclosures cc: Service List To: Service List

RE: Minnesota Energy Resources Corporation – NNG's Annual Automatic

Adjustment Report

Notice of Availability

Please take notice that Minnesota Energy Resources Corporation-NNG has filed with the Minnesota Public Utilities Commission ("Commission") the following reports:

- 1. Minnesota Rule 7825.2800 Procurement Policies of Gas Supply.
- 2. Minnesota Rule 7825.2810 Automatic Adjustment Charges.
- 3. Minnesota Rule 7825.2820 Annual Auditor's Report.
- 4. Minnesota Rule 7825.2830 Statement on Gas Cost Projection.

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

Joylyn C. Hoffman Malueg Project Specialist 3 Minnesota Energy Resources Corporation 2685 145th Street West Rosemount, MN 55068 Telephone: (414) 221-4208

joylyn.hoffmanmalueg@wecenergygroup.com

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/edockets/searchDocuments.do?method=showeDocketsSearch&showEdocket=true&userType=public

Once on the eDockets homepage, this document can be accessed through the Search Documents link by searching Docket Number 20-172.

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben Valerie Means Matthew Schuerger Joseph K. Sullivan John A. Tuma Chair Commissioner Commissioner Commissioner

In the Matter of the Annual Automatic Adjustment Report of Minnesota Energy Resources Corporation - NNG

ANNUAL REPORT

Docket No. G999/AA-20-172

SUMMARY OF FILING

Pursuant to Minnesota Rules 7825.2390 – 7825.2920, Minnesota Energy Resources Corporation – NNG submitted the following reports to the Minnesota Public Utilities Commission:

- 1. Minnesota Rule 7825.2800 Procurement Policies of Gas Supply.
- 2. Minnesota Rule 7825.2810 Automatic Adjustment Charges.
- 3. Minnesota Rule 7825.2820 Annual Auditor's Report.
- 4. Minnesota Rule 7825.2830 Statement on Gas Cost Projection.

STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Katie J. Sieben Valerie Means Matthew Schuerger Joseph K. Sullivan John A. Tuma Chair Commissioner Commissioner Commissioner Commissioner

In the Matter of the Annual Automatic Adjustment Report of Minnesota Energy Resources Corporation - NNG ANNUAL REPORT

Docket No. G999/AA-20-172

INTRODUCTION

Minnesota Energy Resources Corporation - NNG ("MERC-NNG" or the "Company") submits to the Minnesota Public Utilities Commission (the "Commission") the attached Annual Automatic Adjustment Report for the year beginning July 1, 2019, and ending June 30, 2020, pursuant to Minnesota Rules 7825.2390 – 7825.2920.

The following information is provided in accordance with Minn. R. 7829.1300, subp. 3:

I. Summary of Filing

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

II. Service

Pursuant to Minn. R. 7829.1300, subp. 2, MERC-NNG has served a copy of this filing on the Department of Commerce, Division of Energy Resources (the "Department") and the Office of the Attorney General – Residential Utilities Division ("OAG"). A notice of availability has been served on all intervenors in MERC's previous two general rate cases as required by Minn. R. 7825.2840. A summary of the filing has been served on all individuals on MERC's general service list.

III. General Filing Information

A. Name, Address, and Telephone Number of Filing Party

Minnesota Energy Resources Corporation 2685 145th Street West Rosemount, MN 55068 (651) 322-8900

B. Name, Address, Electronic Address, and Telephone Number of Attorney for the Filing Party

Kristin M. Stastny
Taft Stettinius & Hollister LLP
2200 IDS Center
80 South 8th Street
Minneapolis, MN 55402
KStastny@Taftlaw.com
(612) 977-8656

C. Date of the Filing and Date Proposed Change Will Take Effect

Date of filing: September 1, 2020

Proposed Effective Date: September 1, 2020

D. Statute Controlling Schedule for Processing the Filing

No statute establishes a schedule for processing this filing. Under Minn. R. 7829.1400, initial comments are due within 30 days of filing, with reply comments due 10 days thereafter.

E. Signature, Electronic Address, and Title of Utility Employee Responsible for the Filing

Joylyn C. Hoffman Malueg

Project Specialist 3

Joylyn.HoffmanMalueg@wecenergygroup.com

Joseph C. Hogma Malueg

2685 145th Street West Rosemount, MN 55068 (414) 221-4208

IV. <u>Description and Purpose of Filing</u>

Pursuant to Minnesota Rules 7825.2390 – 7825.2920, this report includes the following information:

- 1. Minnesota Rule 7825.2800 Procurement Policies of Gas Supply.
- 2. Minnesota Rule 7825.2810 Automatic Adjustment Charges.
- 3. Minnesota Rule 7825.2820 Annual Auditor's Report.
- 4. Minnesota Rule 7825.2830 Statement on Gas Cost Projection.

Requirements of Minnesota Rule 7825.2800

Minnesota Rule 7825.2800 requires each public utility to file annually the procurement policies for selecting sources of fuel and energy purchased, dispatching policies, if applicable, and a summary of actions taken to minimize costs, including conservation actions for gas utilities.

Requirements of Minnesota Rule 7825.2810

Minnesota Rule 7825.2810 requires each utility to submit to the Commission an annual reporting by month of automatic adjustment charges for each customer class for the previous year commencing July 1 and ending June 30.

Requirements of Minnesota Rule 7825.2820

Minnesota Rule 7825.2820 requires all gas and electric utilities to submit to the Commission an independent auditor's report evaluating accounting for automatic adjustments for the prior year commencing July 1 and ending June 30. In Docket No. G999/AA-14-580, MERC agreed in its Reply Comments filed May 15, 2015, to "request that its auditor review the cost allocations between PGAs for future true-up filings and address any concerns regarding cost-allocations in the audit report to be filed with the AAA report." All gas revenues are directly assigned (not allocated) to each PGA system based on the interstate pipeline system(s) and town border stations that supply gas to customers' meters. All gas purchase costs, except for costs and credits associated with financial hedging options, are directly assigned (not allocated)

to each PGA system based on the interstate pipeline system(s) and town border stations that supply each PGA system. The financial hedging option costs and credits are allocated among the two PGA systems based on each respective PGA system's percent of total MERC sales. The monthly gas commodity costs ("Commodity \$") listed on Schedule C & D, page 1 of 1, are inclusive of any applicable financial hedging option costs and/or credits. The individual costs resulting in the total monthly Commodity \$ amounts, including financial hedging costs/credits and the allocation of these costs/credits, were included in the scope of the audit.

Requirements of Minnesota Rule 7825.2830

Minnesota Rule 7825.2830 requires each gas utility to submit to the Commission by September 1 of each year a brief statement of its opinion on the impact of market forces on gas costs for the coming year.

Other Commission Filing Requirements

In its February 27, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2016-2017 True-up Proposals and Setting Further Requirements in Docket No. G999/AA-17-493, the Commission required each gas utility to provide, in the next three AAA reports, information on unauthorized gas use for each customer that did not comply with a called interruption during the heating season. In particular, the Commission required the utilities to report on (1) the volume of gas consumed by the non-compliant customer during the curtailment period; (2) the specific commodity rate charged for the unauthorized gas use and how that rate is determined; (3) the financial penalty, if any, assessed by the company to the customer, including calculations in determining the penalty or penalties; and (4) a discussion about utility communication with each customer regarding non-compliance with interruptions. The Commission also ordered that MERC provide totals for Schedule Q, Third Party Damage, in future AAA reports.

By Order dated May 8, 2018 in Docket No. G011/M-15-895, the Commission required MERC to separately track and report Rochester-specific capacity release information (e.g.,

volumes, revenue received) in future AAA filings in the same manner that it has in previous AAA filings for short-term capacity releases.

In its November 13, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2017-2018 True-Up Proposals and Setting Further Requirements, in Docket No. G999/AA-18-374, the Commission required that MERC include both a discussion regarding its treatment of recovery of gas losses due to contractor main strikes, as well as totals for Schedule Q, Third Party Damage in all future AAA Reports. The Commission further required that each utility that hedges (including physical and financial) continue to provide a post-mortem analysis, in a format similar to what was provided in that docket. Finally, the Commission required that going forward, all regulated utilities identify each non-standard prior-period adjustment made in an annual true-up filing, demonstrate whether such adjustment is subject to a Minnesota rule (e.g., Billing Error Rule, Minn. R. 7820.4000, Approval for Automatic Adjustment of Charges Minn. R. 7825.2920, or some other Rule), and demonstrate the reasonableness of each such adjustment.

In its November 6, 2019, Order Approving Modification of Curtailment Penalties and Tariffs and Requiring Reports in Docket No. G999/CI-19-160, the Commission required that annually, in their September 1 AAA report filings, natural gas utilities must file complete analyses of circumstances when an interruptible customer fails to curtail twice, or a single noncompliant event is significant.

MERC addresses each of these filing requirements in this report.

CONCLUSION

MERC respectfully requests that the Commission approve the Annual Automatic Adjustment Report as filed.

DATED: September 1, 2020

Respectfully submitted,

MINNESOTA ENERGY RESOURCES CORPORATION

By: /s/ Joylyn C. Hoffman Malueg Joylyn C. Hoffman Malueg 2685 145th Street West Rosemount, MN 55068 Telephone: (414) 221-4208

MERC

PROCUREMENT POLICIES OF GAS SUPPLY MINNESOTA RULE 7825.2800

September 1, 2020

1) 2019-2020 Gas Procurement Policies

Minnesota Energy Resources Corporation's (MERC's) gas procurement policy is intended to provide reliable and reasonably priced natural gas to customers. MERC utilized a portfolio mix of firm supplies with varying terms purchased at:

- Fixed Price Financial (Futures)
- Pipeline Storage (NNG / ANR)
- Financial Calls (Options)
- First-of-Month Index (FOM)
- Daily Spot Market Gas Daily Daily Index (GDD) or fixed price

For all gas supply purchases that have a term of one month or greater, a Request-For-Proposal (RFP) was emailed to all third-party suppliers that MERC has North American Energy Standards Board (NAESB) agreements with soliciting bids for supply. The RFP responses were compared and the lowest priced supply was awarded, assuming suppliers meet reliability and credit standards.

For all gas supply purchases that have a term of less than one month, a minimum of three bids were solicited from NAESB contracted suppliers utilizing lines of communication such as Instant Messaging (IM) or cold calling. The solicited bids were compared and the best price from a reliable, credit worthy supplier was awarded.

It is MERC's policy to ensure there is enough contracted interstate pipeline capacity to provide firm delivery of natural gas to firm customers on a peak day. MERC's policy is to have adequate firm transportation capacity to protect against a one (1) in twenty (20) year cold weather event, plus a positive reserve margin. Due to MERC's service territories being geographically spread throughout the state, MERC contracts for firm pipeline capacity on Northern Natural Gas (NNG), Great Lakes Gas Transmission (GLGT), Viking Gas Transmission (VGT), Centra Pipeline (Centra), Bison Pipeline (Bison), and Northern Border Pipeline (NBPL). This mix of pipelines allows purchasing supply from Canadian, Mid-Continent, and Rockies supply sources, providing a diversity of supply points and prices.

During the winter season (November 2019 through March 2020), MERC utilized a 40%/30%/30% strategy to mitigate price volatility and provide reasonably priced natural gas. The strategy consists of 40% of normal winter supply requirements purchased at a FOM index price, 30% supplied by physical storage, and 30% covered by financial hedges (10% futures and 20% call options).

Storage supply and financial products were purchased evenly from May through October 2019.

This approach provided MERC customers with 60% of the portfolio protected from increasing market prices via storage, call options, and futures. It also provided the ability to participate in a decreasing market with 60% of the portfolio comprised of call options or FOM purchases.

In non-winter months, natural gas was purchased at FOM index or in the spot market when necessary.

Gas Supply Procedures

Due to the variable daily and seasonal needs of its customers, MERC, from time to time, may have underutilized pipeline capacity available for release and/or gas supply available for resale (opportunity sales). The Gas Supply (GS) Procedures approved by the Commission in Docket No. G007,011/Al-06-1416 describe how MERC makes its capacity releases and opportunity sales available to interested parties. In addition, the procedures lay out the requirements set forth by FERC Code of Conduct and requirements for communications and/or transactions between affiliates.

On August 31, 2017, MERC filed a capacity release plan in Docket No. G011/M-15-895, related to the Rochester Natural Gas Extension Project on the NNG pipeline. The Commission approved MERC's capacity release plan as a reasonable framework to address the issue of surplus Rochester capacity on a going forward basis by Order dated May 8, 2018 in that docket.

Trading Policies

MERC traders determine supply requirements for MERC customers on a daily and monthly basis. On a monthly basis, it is MERC's policy to purchase and schedule the required flowing natural gas supply and required storage injections or withdrawals based upon the forecast monthly requirements.

On a daily basis, it is MERC's policy to purchase and schedule additional flowing gas supply and storage injections or withdrawals based upon changes from the monthly plan. In the event additional spot market supply is necessary, traders consider the most economic and operationally efficient option in deciding whether to purchase supply in the spot market, decrease injections, or increase storage withdrawals.

In the event there is more flowing supply than the daily requirement, traders consider the most economic and operationally efficient option in deciding whether to increase storage injections, decrease storage withdrawals, or sell the excess flowing supply.

Actions Taken to Minimize Gas Supply Costs

MERC has three major gas supply objectives:

- Provide reliable natural gas
- Mitigate price volatility
- Provide reasonably priced natural gas

MERC accomplishes these objectives by utilizing three approaches:

- 1) Market Forces
- 2) FERC Monitoring
- 3) Conservation Improvement Programs (CIP)

1) Market Forces

MERC utilized an RFP process for purchases of one month or greater.

- MERC required a minimum of three bids from approved suppliers for supply purchased for a term of less than one month.
- MERC utilized a diverse hedging portfolio that has a mix of fixed price, storage, call options, FOM index, and spot market supply.
- MERC implemented a winter hedging strategy of 40% index price, 30% storage, and 30% financially protected.
- MERC used a dollar-cost-averaging approach to purchase the supply defined in the hedging strategy.
- MERC traders base their daily and monthly gas supply procurement decisions on the most economic receipt points and/or the use of storage.
- MERC traders release excess firm pipeline transportation to generate capacity release revenue to decrease the transportation capacity costs.

2) FERC Interventions

MERC continually monitors Federal Energy Regulatory Commission (FERC) proceedings related to interstate pipeline activities as well as issues related to natural gas supply and pricing. The primary focus is on the interstate pipelines that MERC uses to deliver natural gas to its customers:

- Northern Natural Gas (NNG)
- Great Lakes Gas Transmission (GLGT)
- Viking Gas Transmission (VGT)
- Centra Pipelines (Centra)
- Bison Pipeline (Bison)
- Northern Border Pipeline (NBPL)
- ANR Pipeline (ANR)

Key FERC Proceedings – July 1, 2019 through June 30, 2020

The following is a list of FERC proceedings MERC has participated in over the 2019-2020 AAA period.

Company	Filing Date	Docket No.	Description
ANR	02-27-19	CP19-102	Prior Notice Application to replace main line and loop line in Kane County, IL filing
ANR	10-01-19	CP20-01	Abbreviated 7(b) and 7(c) Application for authorization to abandon leases and acquire storage assets from Mid-Michigan Gas Storage Company
ANR	10-29-19	CP20-08	Abbreviated 7(b) and 7(c) Application for authorization to implement the Grand Chenier Project to provide open access firm transportation service in Louisiana

Company	Filing Date	Docket No.	Description			
ANR	03-12-20	CP20-87	Prior Notice Authorization to increase certificate horsepower at the Grand Chenier Compressor Station located in Cameron Parish, Louisiana			
ANR	12-06-18	RP19-403	Compliance filing w/Order No. 849: FERC Form 501-G filing			
ANR	02-28-19	RP19-741	Tariff fuel reimbursement adjustment and EPC charges filing to be effective 04/01/19			
ANR	05-28-19	RP19-741-001	Rehearing re: tariff fuel reimbursement adjustment and EPC charges filing to be effective 04/01/19			
ANR	10-17-19	RP19-741-002	ANR Fuel Compliance Filing to be effective 4/1/19			
ANR	10-01-19	RP20-02	Tariff filing re: negotiated service agreement with WPL to be effective 11/1/19 (ANR WISE)			
ANR	10-01-19	RP20-22	Tariff filing re: ANR transporter's use backhaul revision to be effective 11/1/19			
ANR	02-28-20	RP20-608	Tariff filing re: Penalty Updates to be effective 4/1/2020			
ANR	03-02-20	RP20-636	Tariff fuel reimbursement adjustment and EPC charges filing to be effective 04/01/20			
NBPL	11-26-19	RP19-414-002	Compliance Tariff filing: Amended Settlement Period 3 to be effective 1/1/20			
NBPL	07-19-19	RP19-1390	Tariff Filing to update the Future Sales of Capacity section of Tariff to be effective 8/19/19			
NBPL	08-30-19	RP19-1390-001	Compliance filing re: Future Sales of Capacity to be effective 8/19/19			
NBPL	03-27-20	RP20-690	Tariff filing re: Annual Compressor Usage Surcharge 2020 to be effective 5/1/20			
NNG	08-28-17	CP09-465	Motion filing by Kansas Corp Com re NNG failure to comply with FERC order re Cunningham Storage Field buffer zone			
NNG	07-27-18	CP18-534	Section 7 Application for Northern Lights 2019 Expansion Project including Rochester Expansion component			
NNG	01-25-19	CP19-57	Advance notice of replacement (like-for-like) of compression facilities (Mullinville Compressor Station)			
NNG	06-06-19	CP19-479	Application to abandon A and J line and construction compression facilities at Tescott compressor station			
NNG	02-25-20	CP20-62	Advance Notice of replacement of compression facilities at the Farmington Compressor Station located in Dakota County, MN			
NNG	06-02-19	RP01-382-029	Carlton Reimbursement Report			
NNG	10-11-18	RP19-59	FERC Form 501-G filing in compliance with Order No. 849			
NNG	02-05-19	RP19-59-001	Order of Chief Judge Designating Settlement Judge re FERC initiated Section 5 investigation			

Company	Filing Date	Docket No.	Description				
NNG	07-01-19	RP19-1353-000	Section 4 rate case filing and tariff changes. Tariff				
		to RP19-1353-	changes to be effective 8/1/2019. Anticipated				
		007	proposed rates to be placed into effect 1/1/20				
NNG	08-13-19	RP19-1468	Annual Carlton Flow Obligations Filing				
NNG	01-31-20	RP20-478	Tariff filing re Field Area and Storage Fuel				
			percentages for the April 1, 2020 thru March 31,				
_			2021 period as well as ECM commodity surcharge				
NNG	02-13-20	RP20-519	Report of the penalty and daily Delivery Variance				
			Charge (DDVC) - credited to shipper				
VGT	12-6-18	RP19-386	FERC Form 501-G filing in compliance with Order				
			No. 849				
VGT	06-28-19	RP19-1340-000	Section 4 rate case filing and tariff changes. Tariff				
		to RP1340-004	changes to be effective 8/1/2019				
VGT	10-01-19	RP20-16	Semi-Annual Fuel and Loss Retention (FLRP)				
			Percentages to become effective 11-1-19				
VGT	10-01-19	RP20-26	Tariff filing to incorporate aments to Non-				
			Conforming Transportation Service Agreements				
VGT	11-27-19	RP20-274	Correction to 10/1/19 semi-annual fuel filing to be				
			effective 11/1/19				
VGT	02-25-20	RP20-548	Tariff filing re revision to Annual LMCRA eff 4-1-20				
VGT	02-26-20	RP20-562	Semi-Annual Fuel and Loss Retention (FLRP)				
			Percentages to become effective 4-1-20				

3) Energy Conservation Actions

MERC's growth in sales volumes is partially offset by conservation. Conservation occurs in four ways:

- 1. Customer response to higher gas prices when they occur.
- 2. Appliance replacement trends that occur when customers replace gas-fueled appliances with more efficient and modern equipment.
- 3. New construction that incorporates updated building and energy efficiency standards and more efficient appliances.
- 4. Conservation programs undertaken by the Company.

MERC's 2020 budget includes \$11,399,633 for conservation programs.

Minnesota Statute § 216B.241 requires MERC to invest in cost-effective conservation improvements through its Conservation Improvement Program (CIP). The company is required to file triennially with the Department of Commerce a CIP Plan outlining its goals, budgets, and cost-effectiveness analyses for the next planning cycle. MERC's most recent triennial CIP Plan was filed on July 1, 2020, covering the years 2021-2023, in Docket No. G011/CIP-20-479.

Additionally, MERC is required to file an annual CIP Status Report with the Department of Commerce, which details the cost effectiveness and spending for the prior year's CIP program.

MERC's 2019 CIP Status Report was filed on May 1, 2020, in Docket No. G011/CIP-16-120.03, and approved by the Deputy Commissioner of Commerce on August 6, 2020.

The current versions of these reports and Department decisions are available on the Department of Commerce's e-docket system.

MERC-NNG

ANNUAL REPORT AUTOMATIC ADJUSTMENT CHARGES MINNESOTA RULE 7825.2810

September 1, 2020

- I. Minnesota Rule 7825.2810, subpart 1
 - A. The commission-approved base cost of fuel or gas as defined by part 7825.2400, subpart 4 or 4a;

Schedule (A).

B. Billing adjustment amount, such as Kwh, Mcf, Ccf, or Btu, charged customers for each type of energy cost, such as nuclear, coal, purchased power, purchased gas by major component, peak shaving gas, or manufactured gas;

Schedules (B & E).

C. Billing adjustment amounts, by gas supplier, that were used to bill the utility during the reporting period;

Schedules (C & D).

D. The total cost of fuel or gas delivered to customers including, for gas utilities, the cost of supply-related services;

Schedules (C & D).

E. The revenues collected from customers for energy delivered;

Schedules (B & E).

F. The amount of supplier refunds received as defined by part 7825.2700; and

Schedules (F & G).

G. The amount of refunds credited to customers.

Schedules (F & G).

II. Minnesota Rule 7825.2810, subpart 2

A. Purchased gas adjustment rule variance in effect or requested during the 12-month reporting period and reasons why those variances were necessary;

Minnesota Energy Resources Corporation ("MERC" or the "Company") requested, and the Commission approved, a four-year variance from the requirements of Minnesota Rules 7825.2400, 7825.2500, and 7825.2700 in Docket No. G011/M-17-85, to June 30, 2021. The variance was necessary to permit MERC to use the Purchased Gas Adjustment ("PGA") to recover the incurred costs of financial instruments used for hedging purposes in securing natural gas supplies for Minnesota customers.

MERC requested, and the Commission approved, a variance from the requirements of Minnesota Rules 7825.2910; 7825.2700, subp.7; Minn. R. 7825.2920, subp. 2; Minn. R. 7820.4000; and any other applicable rule as necessary, in Docket No. G011/M-18-526. The variance was necessary to permit MERC to refund firm customers and recover from interruptible customers the approximately \$423,646 overand under-charged amounts related to the Rochester demand entitlement error through the monthly PGA over a six-month-period following Commission approval.

B. Changes in demand contracted for during the reporting period and reasons for those revisions;

Effective November 1, 2018, MERC-NNG increased design day deliverability by 10,939 in Docket No. G011/M-18-526. This change in demand resulted from the first tranche of Rochester capacity of 15,939 Dth/day and the expiration of a 5,000 Dth/day contract. For 2018-2019, the MERC-NNG design day increased by 6,059 Dth.

Effective November 1, 2019, MERC-NNG increased design day deliverability by 37,093 in Docket No. G011/M-19-496. This change in demand resulted from the second tranche of Rochester capacity. For 2019-2020, the MERC-NNG design day increased by 3,534 Dth.

C. The level of customer-owned gas volumes delivered through the utility's distribution system under retail transportation tariffs during the reporting period; and

MERC transported 42,370,182 Dth to customers under its retail transportation tariffs during the period of July 1, 2019, through June 30, 2020.

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¹ As discussed in MERC's January 31, 2020 and July 31, 2020 Compliance Filings in Docket No. G011/M-15-895, as a result of the availability of this additional capacity, MERC has taken action to release capacity on a non-recallable basis consistent with the Capacity Release Plan filed on August 31, 2017, and approved by the Commission by Order dated May 8, 2018.

D. A brief explanation of deviations between gas cost recovery and actual gas cost during the reporting period.

The total MERC-NNG cost is an over recovery of 22.5% for this AAA period.

MERC-NNG's demand-related cost has an over recovery of 35.87% for this PGA period. The over collection of demand costs was predominantly caused by capacity release revenues and actual sales being higher than projected sales. Purchase costs are net of capacity release and curtailment penalty revenues.

MERC-NNG's commodity cost has an over recovery of 18.51% for this PGA period. The over collection was caused by capacity release revenues attributable to Bison/NBPL, lower than forecasted gas costs, and differences in actual volumes compared to forecast.

MERC is concurrently filing an Excel spreadsheet that provides an analysis of the over and under recoveries.

Summary of Schedules

Schedule (A)

Schedule A, page 1, shows the base costs recovered through sales rates for MERC-NNG. Schedule A, page 2, shows the base cost of gas submitted to the Commission in Docket No. G011/MR-17-564 effective July 1, 2019 for MERC-NNG.

Schedules (B & E)

Schedules B and E are combined on a worksheet titled "Summary of Revenue Billed and Sales Volumes." Page 1 of this schedule shows volumes, customers, and revenues billed for the 12 months in the reporting period. Transport volumes and revenue that are related to the PGA for the 12 months in the reporting period are listed at the bottom of page 1. In addition, pages 2 through 13 are the monthly PGA rates by class and component billed to customers during the reporting period.

Schedules (C & D)

Schedules C and D have been combined on a worksheet called "Summary of Purchased Volumes and Costs." Page 1 of this schedule shows total volumes and costs by demand and commodity component and by supplier.

Schedule (D.1)

Schedule D.1 shows the allocation of purchased gas costs by customer class by demand and commodity component.

Schedule (D.2)

Schedule D.2, pages 1 and 2, show the (over) under recovery by class and by demand and commodity component by month.

Schedule (D.3)

Schedule D.3, pages 1 and 2, show the recovery by demand and commodity by type, by class, and by month. Pages 3 and 4 show the cost by demand and commodity by type, class, and month. Pages 5 and 6 summarize the annual recovery as compared to cost and the (over) under collection by demand and commodity by type and by class.

Schedules (F & G)

Schedules F and G are combined on a worksheet called "Summary of Supplier Refunds and Refunds Credited to Customers." This worksheet shows supplier refunds received and distributed to customers during the reporting period. No refunds were credited to customers via the PGA during the reporting period.

Schedule H

Schedule H summarizes the (over) under recovery of purchased gas costs.

Schedule I

Schedule I summarizes the capacity released during the reporting period.

On May 8, 2018, the Commission issued an Order in Docket No. G011/M-15-895, approving MERC's capacity release plan related to the Rochester Natural Gas Extension Project, and required MERC to separately track and report Rochester-specific capacity release information (e.g., volumes, revenue received) in future AAA filings in the same manner that is has in previous filings for short-term capacity releases. The Rochester-specific data is provided in Schedule I.

As discussed in MERC's August 1, 2019 NNG Demand Entitlement filing in Docket No. G011/M-19-496, the second tranche of additional capacity resulting from the NNG upgrades related to the Rochester Project were available on November 1, 2019, resulting in MERC-NNG releasing capacity, as documented in Schedule I.²

Schedule J

Schedule J summarizes the pipeline daily scheduling charges incurred during the reporting period.

Schedule K

No Schedule K is included in this filing.

Schedule L

Schedule L sets out the information required in the Commission's orders in Docket Nos. G007,011/M-06-1358; G007,011/M-09-262; G007,011/M-13-207; G011/M-15-231; and G011/M-17-85. The orders in these dockets require MERC to include data on the relative benefits of price hedging contracts, including the average cost per dekatherm for natural gas purchased under financial instruments compared to the comparable monthly and daily spot index prices, in its annual AAA report, together with:

- a. a list of each hedging instrument entered into;
- b. the total volumes contracted for each instrument; and
- c. net gain or loss, including all transaction costs for each instrument in comparison to the appropriate monthly and daily spot prices.

Schedule M

Schedule M, page 1, shows the calculation of PGA revenues for the period July 1, 2017, through June 30, 2018, that were billed on and after July 1, 2019. Page 2 shows the calculation of PGA revenues for the period July 1, 2018 through June 30, 2019 that were billed on and after July 1, 2019. This schedule is necessary in order to capture all of the PGA revenue for the 12-month period of the current AAA report.

² See also MERC's January 31, 2020 and July 31, 2020 Bi-Annual Capacity Release Compliance Filings in Docket No. G011/M-15-895,

Schedule N

No Schedule N is included in this filing.

Schedule O

Schedule O provides information required by the Commission's orders in Docket Nos. G007,011/M-09-262; G-007,011/M-11-296; G007,011/M-13-207; G011/M-15-231; and G011/M-17-85. The orders in these dockets require MERC to provide a full post-mortem analysis of the Company's hedged volumes for the preceding heating season compared to other hedging strategies (including, but not limited to, the alternative hedging strategy discussed in the Department of Commerce, Office of Energy Security's (now the Department of Commerce, Division of Energy Resources) April 30, 2009 Comments, Attachment 2 in Docket No. G007,011/M-09-262) and the prevailing market prices strategy. An Excel spreadsheet providing the supporting information for the post-mortem analysis is being provided concurrently with this filing.

Schedule P

In Docket No. G999/AA-08-1011, the Commission also ordered MERC to provide the following information regarding its hedging program:

(a) A clearly defined and quantified description of the risk (i.e., catastrophic or other type of event) the companies are insuring against by implementing the hedging strategies. The Company shall include a clearly defined and quantified estimate of the probability of these events occurring.

Details are provided in Schedule P, pages 1-5.

- (b) A quantitative analysis of the value of reducing price volatility and managing price risk (the cost and benefit of these programs to all customers and the companies) that includes:
 - (1) A comparison of what actual low, average, and high usage customer bills (on a monthly basis) would have been with and without the use of financial hedging strategies as implemented during the relevant time period.
 - MERC calculated the average monthly residential usage for each PGA and then applied +/- 20% to determine high and low use customer impacts. The actual PGA rate was used to determine an alternate PGA rate without hedging by removing the actual results of the hedge portfolio. This analysis results in the tables shown in Schedule P, page 6.
 - (2) A comparison of what these customer bills would have been under budget billing, assuming normal gas usage for low, average, and high usage customers, and assuming catastrophically high winter prices.
 - As discussed above, MERC applied a +/- 20% factor to average residential volumes and then looked at the impacts of hedging in a

catastrophic price environment. This analysis is shown on Schedule P, page 7.

Further, the difference in volatility in PGA commodity prices is shown on Schedule P, page 8.

(c) A quantitative definition of "catastrophically high prices" (in absolute and relative terms), and a bill analysis that shows how these prices would impact low, average and high usage customer bills.

MERC took a statistical approach to calculate "catastrophically high prices" using the following steps. This approach is also summarized in Schedule P, pages 1-5. The impact of catastrophically high prices is shown in Schedule P, page 7, as discussed above.

- (1) MERC utilized the NYMEX forward curve dated May 15, 2019.
- (2) MERC considered the market expectations of gas price volatility (implied volatility) from May 15, 2019 through June 1, 2020.
- (3) Based on the data in (1) and (2), MERC looked at how prices changed from May 15, 2019, through June 1, 2020. As a general rule, the farther out in time, the more prices can change. The possible range of actual prices that could be experienced in July 2019 is much smaller than in June 2020. In other words, there is more time for prices to change from the forward curve on May 15, 2019.
- (4) MERC utilized a Monte Carlo model and calculated 1,000 different price paths. MERC looked at the top 25 prices (2.5%) and used the 25th price as the catastrophic price event. There is only a 2.5% chance of prices being at that price or higher.
- (5) The result is that on May 15, 2019, there was only a 2.5% chance of the average price from July 2019 to June 2020 being higher than \$3.16/Dth. Similarly, there was only a 2.5% chance of the price in January 2020 being higher than \$4.56/Dth.
- (d) Additional information on the embedded cost/benefit associated with physical hedges used in the procurement of gas supplies.

MERC does not purchase physical hedges; only financial products are used.

Schedule Q

Schedule Q reflects all bills rendered by MERC during the 2019-2020 AAA period for third-party damage to MERC facilities. Per the Commission's October 11, 2012, Order in Docket No. G999/AA-10-885, Schedule Q lists the date of the incident, party responsible for the damage, gas cost amount for each incident, and the gas lost amount for each incident. In accordance with the Commission's February 27, 2019 Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2016-2017 True-up

Proposals and Setting Further Requirements in Docket No. G999/AA-17-493, MERC has included totals in Schedule Q.

In its November 13, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2017-2018 True-Up Proposals and Setting Further Requirements, the Commission required that MERC provide both a discussion regarding the treatment of recovery of gas losses due to contractor main strikes and totals for its Schedule Q Third Party Damage, in future AAA Reports. In accordance with this requirement, MERC notes that in instances where gas losses occur due to damage, MERC bills lost gas charges to the party responsible for damages. Any revenue collected from those third parties is netted against the commodity cost, thereby reducing the overall gas costs for the AAA period. For the 2019-2020 gas year, MERC-NNG credited \$29,072.91 to commodity.

Meter Testing Program

In its October 11, 2012, Order in Docket No. G999/AA-10-885, the Commission required all natural gas utility companies to file any updates regarding meter testing within an annual period in their AAA reports. In comments filed in Docket No. G999/AA-14-580, MERC agreed to provide its meter testing results on a calendar year basis starting with the year 2014.

In 2019, MERC made a temporary modification to the meter testing program due to the Automated Meter Infrastructure ("AMI") project, which started in 2019. In 2019, MERC temporarily suspended the statistical meter sample testing program during AMI deployment, and focused meter replacement on the meters with large amounts of deficiencies and older meters that may be difficult to do an index exchange on while out in the field. During 2019, and throughout the remainder of the AMI project, MERC is replacing meters that the AMI deployment vendor finds issues with. This temporary modification provides for efficient meter testing while concurrent resources can be utilized during AMI deployment.

During the time period of January 1, 2019, through December 31, 2019, MERC tested 3,919 meters as part of its meter testing program. Of those meters tested, 3,625 (92.5%) tested between 98% and 102% accurate. 225 meters (5.7%) tested greater than 102% accurate, 61 meters (1.6%) tested less than 98% accurate, and 8 meters (0.20%) had no test due to the meter being damaged.

Unauthorized Use of Gas

In its Order dated February 27, 2019, in Docket Nos. G011/AA-17-654, G011/AA-17-655, and G011/AA-17-656, the Commission required that all utilities in the next three AAA Reports provide the following information on unauthorized gas use for each customer that did not comply with a called interruption(s) during the heating season:

- a. The volume of gas consumed by the non-compliant customer during the curtailment period;
- b. The specific commodity rate charged for the unauthorized gas used and how that rate is determined;

- c. The financial penalty, if any, assessed by the company on the customer, including calculations used to determine the penalty or penalties; and
- d. A discussion about utility communication with each customer regarding noncompliance with interruptions (excluding invoices).

MERC called nine curtailments during this AAA period, on September 13, 2019, October 30, 2019, November 5, 2019, November 10, 2019, November 11, 2019, December 10, 2019, December 11, 2019, and January 16, 2020, in the NNG PGA. In total, 118 customers were called to curtail. In total, of the 118 customers called to curtail, 12 had unauthorized usage during the curtailment periods. The chart below shows the unauthorized gas use by MERC-NNG customers during the curtailments.

Date of Unauthorized Usage	Unauthorized Usage (in therms)	Financial Penalty*	
11/11/2019	2,612.21	\$13,061.05	

^{*}A financial penalty of \$5.00 per therm was assessed per MERC's Tariff.

A commodity rate of \$0.29528 per therm was charged to transportation customers per Northern Natural Gas pipeline's November 2019 imbalance cash out rates. A commodity rate of \$0.38881 per therm was charged to Class 2 Interruptible, Class 3 Interruptible, and Agricultural Grain Dryer Class 2 Interruptible System Sales customers for unauthorized gas use based on the MERC-NNG November 2019 PGA filing.

MERC maintains and operates a customer notification system that is used to contact customers via phone (voice and/or text message) and email when MERC declares a gas curtailment. The customers that used unauthorized gas were notified prior to the curtailment start time. A total of 367 direct contacts with live persons, 483 voicemails, 158 faxes, 541 emails, and 1,162 text messages were sent out during this AAA period.

In its Order dated November 6, 2019, in Docket No. G999/CI-19-160, the Commission required that all utilities provide annually in their September 1 AAA report filings, complete analyses of circumstances when an interruptible customer fails to curtail twice, or a single noncompliant event is significant. MERC did not encounter any instances where an interruptible customer failed to curtail twice, nor was there any instance of a single, significant noncompliant event during this reporting period.

Docket No. G011/M-15-895 Order Approving Rochester Project and Granting Rider Recovery with Conditions

On May 8, 2018, the Commission issued an Order in Docket No. G011/M-15-895. Order Point 2 required MERC to separately track and report Rochester-specific capacity release information (e.g., volumes, revenue received) in future AAA filings in the same manner that it has in previous AAA filings for short-term capacity releases.

As noted above, Schedule I reports on the Rochester-specific capacity releases that have occurred during this reporting period.³

Prior Period Adjustments

In its February 27, 2019, Order Accepting Gas Utilities' Annual Automatic Adjustment Reports and 2017 True-Up Proposals and Setting Further Requirements, in Docket No. G999/AA-17-493, the Commission required that going forward, all regulated utilities identify each non-standard prior-period adjustment made in an annual true-up filing, demonstrate whether such adjustment is subject to a Minnesota rule (e.g., Billing Error Rule, Minn. R. 7820.4000, Approval for Automatic Adjustment of Charges Minn. R. 7825.2920, or some other Rule), and demonstrate the reasonableness of each such adjustment.

MERC did not have any prior-period adjustments for its 2019-2020 AAA and true-up, but notes that Schedule M to MERC's AAA Report includes the calculation of PGA revenues for the prior periods that were billed on and after July 1, in order to capture all of the PGA revenue for the 12-month period of the current AAA Report. While the underlying cancel-rebills may be subject to the Natural Gas Billing Errors Rule, the adjustment calculated in Schedule M is not. Rather, this calculation reflects PGA revenue for the applicable 12-month AAA period.

³ See also MERC's January 31, 2020 and July 31, 2020 Bi-Annual Capacity Release Compliance Filings in Docket No. G011/M-15-895,

MERC-NNG

ANNUAL AUDITOR'S REPORT MINNESOTA RULE 7825.2820

September 1, 2020



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INDEPENDENT ACCOUNTANTS' REPORT

To the Board of Directors

Minnesota Energy Resources Corporation

We have examined the accompanying exhibits as listed below (collectively, "the Exhibits") of the Annual Automatic Adjustment Report prepared in accordance with Minnesota Rules 7825.2390 to 7825.3000 ("Fuel Rules") for the Northern Natural Gas PGA System for the period July 1, 2019 through June 30, 2020, to be filed by Minnesota Energy Resources Corporation ("the Company"), an indirect wholly owned subsidiary of WEC Energy Group, Inc., with the Minnesota Public Utility Commission ("the Commission").

- Schedule A: Summary of Base Cost of Gas Recovered
- Schedule B and E: Summary of Revenue Billed and Sales Volumes
- Schedule C and D: Summary of Purchased Volumes and Costs
- Schedule F and G: Summary of Supplier Refunds
- Schedule H: Over/Under Recovery of Purchased Gas Costs Summary
- Schedule I: Capacity Release Summary

The Company's management is responsible for the Exhibits. Our responsibility is to express an opinion on the Exhibits based on our examination.

Our examination was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. Those standards require that we plan and perform the examination to obtain reasonable assurance about whether the Exhibits are in accordance with the Fuel Rules, in all material respects. An examination involves performing procedures to obtain evidence about the Exhibits. The nature, timing, and extent of the procedures selected depend on our judgment, including an assessment of the risks of material misstatement of the Exhibits, whether due to fraud or error. We believe that the evidence we obtained is sufficient and appropriate to provide a reasonable basis for our opinion.

In our opinion, the Exhibits for the Northern Natural Gas PGA System for the period July 1, 2019 to June 30, 2020, are presented in accordance with the Commission Fuel Rules, in all material respects.

We did not examine any of the schedules other than those explicitly listed above. Accordingly, we do not express an opinion on any of the other schedules.

This report is intended solely for the information and use of WEC Energy Group, Inc., the Company, including its Board of Directors, and the Commission, and is not intended to be and should not be used by anyone other than these specified parties.

Deloitte ? Touche LLP

August 28, 2020

MERC-NNG

STATEMENT ON GAS COST PROJECTIONS MINNESOTA RULE 7825.2830

September 1, 2020

The major cost components of providing gas service are gas commodity, storage, and transportation. Each component is discussed below:

Gas commodity is typically the most significant component of total delivered gas cost. As Table 1 (below) shows, the 2019-2020 period was marked with relatively stable monthly prices. NYMEX natural gas prices for the winter of 2020-2021 are currently trading at an average price of \$2.93, compared to average actual prices in the winter of 2019-2020 of \$2.18.

Table 1: MERC Index Prices

Quote Date 23-Apr-20

	NIVMEY NO	Emerson	Northern		
Delivery Month	NYMEX NG	Viking	Ventura		
Jul-19	2.2910	1.9610	1.9900		
Aug-19	2.1410	1.8110	1.9600		
Sep-19	2.2510	1.9210	1.8700		
Oct-19	2.4280	1.9930	1.9500		
Nov-19	2.5970	2.6970	2.6000		
Dec-19	2.4700	2.5700	2.8300		
Jan-20	2.1580	2.2580	2.4300		
Feb-20	1.8770	1.9770	1.9300		
Mar-20	1.8210	1.9210	1.6300		
Apr-20	1.6340	1.4590	1.3700		
May-20	1.9390	1.8390	1.8190		
Jun-20	2.0530	1.7880	1.8780		
Jul-20	2.2360	1.9660	2.0560		
Aug-20	2.3200	2.0300	2.1075		
Sep-20	2.3540	2.0340	2.0815		
Oct-20	2.4190	2.0540	2.1515		
Nov-20	2.6370	2.4695	2.6620		
Dec-20	2.9530	2.8980	3.3980		
Jan-21	3.0930	3.0455	4.0055		
Feb-21	3.0570	3.0170	3.9695		
Mar-21	2.9220	2.8820	3.0895		
Apr-21	2.6050	2.2200	2.4225		
May-21	2.5730	2.1880	2.3355		
Jun-21	2.6090	2.2240	2.3265		

Natural gas reserves continue to be at historically high levels and this, coupled with advances in shale drilling technology, results in a well-supplied market. Increased demand for gas from the electric generation and industrial sectors will put some upward pressure on prices, but supply/potential supply is likely to continue to outpace demand.

MERC has implemented a hedging strategy for the 2020-2021 winter season (November through March). The goal of the hedging plan is to mitigate price volatility while continuing to supply reasonably priced gas. The hedge strategy utilizes financial instruments as a percentage of winter requirements at levels of about 10 percent futures and 20 percent call options. An additional 30 percent is expected to be withdrawn from storage and the remaining 40 percent will be purchased at monthly physical index prices. The hedging strategy utilizes a dollar-cost-averaging approach, whereby financial and physical (storage) supply hedges are put

in place from May 2020 through October 2020 for each of the winter months (November 2020 through March 2021).

Storage is another key component in providing overall gas service. There are three major value components of storage: seasonal price arbitrage, daily operational flexibility, and reliability. The value of seasonal price arbitrage is dependent upon the winter and summer pricing differential, which varies in value each year. Storage provides a high degree of flexibility for MERC to increase and decrease supply with weather-related demand. Storage also increases reliability because MERC controls the supply. For the most part, storage costs are controlled by long-term service agreements with pipelines, and therefore, prices do not react to changing market conditions as rapidly as gas commodity prices react.

Pipeline transportation is the final major component affecting gas cost to the city gate. Maximum transportation rates are regulated by FERC, but there are other factors that can influence transportation cost. Pipeline rates may be discounted if there is a competitive pipeline alternative in a market. Additionally, if a market area has more pipeline capacity than market demand, participants can possibly rely upon interruptible pipeline capacity, which puts downward pressure on the value of the capacity. If an area is capacity constrained, the capacity has greater value. If the market is working properly, these mismatches between demand and capacity will eventually correct; however, there may be several years before the benefit or cost of the correction will work its way into pricing.

MINNESOTA ENERGY RESOURCES - NNG

12 MONTHS ENDED JUNE 2020

SUMMARY OF BASE COST OF GAS RECOVERED

Schedule A Page 1 of 2

NNG 8/16/2020

NNG

				11		11	11			11			
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Total
GS													
Dth*	547,591	512,604	497,708	1,097,481	2,311,480	3,770,834	4,709,036	4,038,609	3,528,366	2,414,219	1,368,648	687,370	25,483,946
Base Rate Total \$	\$4.6036 \$2,520,891	\$4.6036 \$2,359,825	\$4.6036 \$2,291,249	\$4.6036 \$5,052,361	\$4.6036 \$10,641,130	\$4.6036 \$17,359,409	\$4.6036 \$21,678,518	\$4.6036 \$18,592,143	\$4.6036 \$16,243,185	\$4.6036 \$11,114,097	\$4.6036 \$6,300,708	\$4.6036 \$3,164,378	\$117,317,894
later and the													
Interruptible Dth*	92,675	88,246	90,775	128,343	369,825	659,574	359,331	287,205	286,805	200,531	152,565	100,197	2,816,073
Base Rate	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	
Total \$	\$339,868	\$323,623	\$332,900	\$470,673	\$1,356,261	\$2,418,858	\$1,317,774	\$1,053,266	\$1,051,800	\$735,407	\$559,502	\$367,454	\$10,327,386
Firm/Interruptible													
Dth* CD Units	346 95	250 95	307 95	508 95	355 95	410 95	2,739 95	1,915 95	1,909 95	1,037 95	706 95	328 95	10,810 1,140
Base Rate-Comm	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	\$3.6673	1,110
Base Rate-Dem Commodity \$	\$28.0890 \$1,270	\$28.0890 \$917	\$28.0890 \$1,125	\$28.0890 \$1,865	\$28.0890 \$1,300	\$28.0890 \$1,504	\$28.0890 \$10,046	\$28.0890 \$7,022	\$28.0890 \$7,002	\$28.0890 \$3,803	\$28.0890 \$2,589	\$28.0890 \$1,202	\$39,645
Demand \$	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$32,016
Total \$	\$3,938	\$3,585	\$3,793	\$4,533	\$3,968	\$4,172	\$12,714	\$9,690	\$9,670	\$6,471	\$5,257	\$3,870	\$71,661
TOTAL													
Dth* CD Units	640,613	601,100	588,790	1,226,332	2,681,660	4,430,818	5,071,106	4,327,729	3,817,080	2,615,787	1,521,919	787,895	28,310,830
CD Units Commodity \$	95 \$2,862,029	95 \$2,684,365	95 \$2,625,274	95 \$5,524,899	95 \$11,998,691	95 \$19,779,771	95 \$23,006,338	95 \$19,652,431	95 \$17,301,987	95 \$11,853,307	95 \$6,862,799	95 \$3,533,034	1,140 \$127,684,925
Demand \$	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$2,668	\$32,016
Total \$	\$2,864,697	\$2,687,033	\$2,627,942	\$5,527,567	\$12,001,359	\$19,782,439	\$23,009,006	\$19,655,099	\$17,304,655	\$11,855,975	\$6,865,467	\$3,535,702	\$127,716,941

^{*}Monthly quantity, in Dths, delivered to customers.

Note: Due to rounding and other considerations, the total amounts reported may not aggregate in total for the month and/or year.

MINNESOTA ENERGY RESOURCES - NNG

SCHEDULE A

Page 2 of 2

8/16/2020

July 1, 2019

SUMMARY OF BASE COST OF GAS RECOVERED

I. MERC NNG BASE COMMODITY COSTS

As approved in Docket No. G011/MR-17-564

Based on 5-15-18 NYMEX, 2018 forecasted sales volumes and 2018 projected demand contract rates.

Α.	NNG	DEMAND	- General	Service

Total Annual Demand Costs (\$) Annual Firm Sales (therms) \$22,181,234 236,895,506

NNG Demand Cost (\$/therm)

\$0.09363

EFFECTIVE:

B. NNG COMMODITY COSTS - General Service, Interruptible, Firm/Interruptible

Gas Commodity Costs

Total Cost of Gas Commodity
Total Annual Sales less Co. Use and L & U

Commodity Base Cost of Gas

264,337,861 therms \$0.36673 /therm

\$96,940,865

Total Base Commodity Cost

\$0.36673 /therm

C. NNG DEMAND COSTS ASSIGNED TO FIRM/INTERRUPTIBLE:

Total Annual Demand Costs (\$) Annual Firm Sales (therms) Total Firm/Interruptible Demand Rate (\$/therms per day) \$22,181,234 236,895,506

Total Firm/Interruptible Demand Rate (\$/therms per day)
Total Firm/Interruptible Demand Rate (\$/therms per Month)

\$0.09363 \$2.80890

D. NNG COMMODITY BASE RATES

Firm - General Service

 Commodity Base Cost of Gas
 \$0.36673 /therm

 Firm Demand Base Costs
 \$0.09363 /therm

 Firm Commodity Base Rate
 \$0.46036 /therm

Interruptible and Firm/Interruptible:

Commodity Base Cost of Gas \$0.36673 /therm Interrruptible/Firm-Interr Commodity Base Rate \$0.36673 /therm

MINNESOTA ENERGY RESOURCES - NNG 12 MONTHS ENDED JUNE 2020 SUMMARY OF REVENUE BILLED AND SALES VOLUMES

Schedule B & E Page 1 of 14 NNG 8/16/2020

NNG

	Prior Period Adjustment	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	12-Month Total
		<u>,, , , , , , , , , , , , , , , , , , ,</u>	<u> </u>		,,			<u> </u>	η.		<u> </u>		,,	
GS Customers*		201,992	200,119	200,152	200,994	202,352	206,667	207,840	201,595	198,570	203,242	204,101	203,672	202,608
Dth**	(33)	547.591	512.604	497,708	1,097,481	2.311.480	3,770,834	4,709,036	4.038.609	3,528,366	2.414.219	1,368,648	687,370	25,483,913
Demand-\$	(\$31)	\$519,828	\$486,615	\$472,474	\$1,041,838	\$2,132,803	\$3,479,348	\$7,059,787	\$6,054,683	\$5,289,726	\$3,619,397	\$2,051,877	\$780,922	\$32,989,268
Commodity-\$	(\$111)	\$1,600,007	\$1,511,260	\$1,421,902	\$3,206,070	\$8,473,193	\$14,038,813	\$17,199,283	\$13,585,075	\$11,380,039	\$7,148,743	\$4,435,104	\$2,020,457	\$86,019,833
Transport-\$ Monetary Adj\$		\$29,323	\$20,551	\$20,410	\$26,755	\$25,240	\$31,057	\$40,097	\$36,313	\$38,601 \$0	\$18,765 \$0	\$17,067 \$0	\$20,901 \$0	\$325,080 \$0
GS TOTAL-\$	(\$142)	\$2,149,158	\$2,018,425	\$1,914,787	\$4,274,663	\$10,631,236	\$17,549,218	\$24,299,167	\$19,676,071	\$16,708,366	\$10,786,905	\$6,504,048	\$2,822,279	\$119,334,181
Interruptible														
Customers*		383	388	375	403	397	484	699	429	410	408	384	390	429
Dth**	0	92,675	88,246	90,775	128,343	369,825	659,574	359,331	287,205	286,805	200,531	152,565	100,197	2,816,073
Commodity-\$ Transport-\$	\$0	\$270,788 \$4,963	\$260,166 \$3,538	\$259,335 \$3,723	\$374,929 \$3,129	\$1,355,669 \$4,038	\$2,455,596 \$5,432	\$1,312,420 \$3,060	\$1,070,671 \$2,582	\$1,029,458 \$3,138	\$666,805 \$1,559	\$549,936 \$1,902	\$331,002 \$3,047	\$9,936,775 \$40,110
INT TOTAL-\$	\$0	\$275,750	\$263,704	\$263,058	\$378,058	\$1,359,707	\$2,461,028	\$1,315,480	\$1,073,253	\$1,032,596	\$668,364	\$551,839	\$334,049	\$9,976,885
Firm/Interruptible Customers* Dth** CD Units		4 346 95	2 250 95	2 307 95	2 508 95	1 355	1 410 95	15 2,739 95	2 1,915 95	3 1,909 95	2 1,037 95	2 706 95	1 328 95	3 10,810 1,140
CD Units Commodity-\$		\$1,012	\$738	\$876	\$1,485	95 \$1,300	\$1,527	\$10,005	\$7,138	\$6,853	\$3,449	\$2,544	\$1,082	\$38,010
Demand-\$ F/I TOTAL-\$	\$0	\$2,706 \$3,718	\$2,706 \$3,443	\$2,706 \$3,582	\$2,706 \$4,191	\$2,630 \$3,929	\$2,630 \$4,156	\$4,273 \$14,278	\$4,273 \$11,411	\$4,273 \$11,126	\$4,273 \$7,721	\$4,273 \$6,817	\$3,238 \$4,320	\$40,683 \$78,692
		.,,									. ,			
TOTAL Customers*		202.378	200.509	200.529	201.399	202.750	207.152	208.554	202.027	198.982	203.652	204.487	204.064	203.040
Dth**	(33)	640,613	601,100	588,790	1,226,332	2,681,660	4,430,818	5,071,106	4,327,729	3,817,080	2,615,787	1,521,919	787,895	28,310,797
CD Units	, ,	95	95	95	95	95	95	95	95	95	95	95	95	1,140
Commodity-\$ Demand-\$	(111) (31)	1,906,092 522,534	1,796,252 489.321	1,706,247 475,180	3,612,368 1,044,544	9,859,440 2.135.432	16,532,425 3,481,978	18,564,865 7,064,059	14,701,779 6,058,956	12,458,088 5,293,999	7,839,321 3.623.669	5,006,554 2,056,150	2,376,489 784,159	\$96,359,808 \$33,029,950
TOTAL-\$	(\$142)	\$2,428,626	\$2,285,572	\$2,181,427	\$4,656,912	\$11,994,872	\$20,014,403	\$25,628,924	\$20,760,736	\$17,752,087	\$11,462,990	\$7,062,704	\$3,160,648	\$129,389,759

^{*}The number of monthly customer charges billed during the calendar month.

^{**}Monthly quantity, in Dths, delivered to customers.

12 MONTHS ENDED JUNE 2020

SUMMARY OF REVENUE BILLED AND SALES VOLUMES

Schedule B & E Page 2 of 14 NNG

TRANSPORT

	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	12-Month Total
TRANSPORT													
NNG													
Balancing Service(PG4)													
Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
Dth	0	0	0	0	0	0	0	0	0	0	0	0	
Total Bal. Service	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Scheduling Fee(DB)													
Prior Period Adj.													
Rate	\$0.2509	\$0.2509	\$0.2509	\$0.2509	\$0.6088	\$0.6088	\$0.9188	\$0.9188	\$0.9188	\$0.3674	\$0.2567	\$0.2567	
Dth	73,553	16,562	22,509	26,627	15,530	24,341	21,518	18,868	23,647	10,700	14,656	27,954	
Total Bal. Fee	\$18,454	\$4,156	\$5,648	\$6,681	\$9,455	\$14,819	\$19,771	\$17,336	\$21,727	\$3,931	\$3,762	\$7,176	\$132,915
Imbalance Fee(IMB)													
Prior Period Adj.													
Rate	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	
Dth	0	0	0	0	0	0	0	0	0	0	0	0	
Total Imbal. Fee	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Aggregation(PL)													
Prior Period Adj.													
Rate	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	\$0.0425	
Dth	372,496	469,007	434,952	545,953	466,450	509,885	550,247	507,295	470,857	385,711	357,804	394,642	
Total Aggregation	\$15,831	\$19,933	\$18,485	\$23,203	\$19,824	\$21,670	\$23,386	\$21,560	\$20,011	\$16,393	\$15,207	\$16,772	\$232,275
Total NNG	\$34,285	\$24,088	\$24,133	\$29,884	\$29,279	\$36,489	\$43,157	\$38,896	\$41,739	\$20,324	\$18,969	\$23,948	\$365,190

Notes: Due to rounding and other considerations, the total amounts reported may not aggregate in total for the month and/or year.

Kansas Ad Valorem Taxes were collected via the PGA from July - Dec 2017 and are included in the Commodity numbers above.

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WILKE NING SOM	MARY OF COST BY CLASS:		EFFECTI	/F DATE:	July 1, 2019			
As approved in	Docket No. G011/MR-17-564; to coincide with implement	tation of final rat		L				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Prior	Current	Total	Current	Distribution	Total Billing
Class	Cost Category	Base Rate	Adjustments	Adjustments	Adjustments	Rate	Charge	Rate
<u></u>		(Pg 1,III.)				(Pg2,VI.)		
A. NNG GS	Demand	\$0.09363	\$0.00000	\$0.00130	\$0.00130	\$0.09493		
	Commodity	\$0.36673	\$0.00000	(\$0.07454)	(\$0.07454)	\$0.29219		
	ACA	\$0.00000	\$0.02234	\$0.00000	\$0.02234	\$0.02234		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.24686	\$0.65632
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.22251	\$0.63197
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.16857	\$0.57803
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.12453	\$0.53399
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.05016	\$0.45962
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.02865)	(\$0.07324)	(\$0.05090)	\$0.40946	\$0.03486	\$0.44432
B. NNG Firm/	Demand	\$2.80890	\$0.00000	\$0.03900	\$0.03900	\$2.84790		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
interruptible	Firm/Interruptible Class 1	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ	φ0.00000	\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 2 Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 3 Firm/Interruptible Class 4						\$0.90000	\$4.55550
	Firm/Interruptible Class 5						\$0.03790	\$4.52310
	Firm/Interruptible Power Gen - Class 2	#0.26672	COOOO	(\$0.074E4)	(PO 074E4)	CO 20240	\$0.02550	\$4.52310
	Commodity	\$0.36673	\$0.00000	(\$0.07454)	(\$0.07454)	\$0.29219		
	ACA	\$0.00000	\$0.04068	\$0.00000	\$0.04068	\$0.04068	CO 45047	CO 40424
	Firm/Interruptible Class 1	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.15847	\$0.49134
	Firm/Interruptible Class 2	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.10453	\$0.43740
	Firm/Interruptible Class 3	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.09453	\$0.42740
	Firm/Interruptible Class 4	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.04823	\$0.38110
	Firm/Interruptible Class 5	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.03401	\$0.36688
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.12953	\$0.46240
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.08150	\$0.41437
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.05860	\$0.39147
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.09953	\$0.43240
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.03137)	(\$0.07454)	(\$0.03386)	\$0.33287	\$0.03401	\$0.36688
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
	Commodity	\$0.36673	(\$0.07205)	(\$0.00249)	(\$0.07454)	\$0.29219		
	ACA	\$0.00000	\$0.04068	\$0.00000	\$0.04068	\$0.04068		
	Total - Interruptible Class 1	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.15847	\$0.49134
	Total - Interruptible Class 2	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.10453	\$0.43740
	Total - Interruptible Class 3	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.09453	\$0.42740
	Total - Interruptible Class 4	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.04823	\$0.38110
	Total - Interruptible Class 5	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.03401	\$0.36688
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.12953	\$0.46240
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.08150	\$0.41437
	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.05150	\$0.39147
	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.09953	\$0.43240
	. StaS. ruptible i ower our oldoo i	\$0.36673	(\$0.03137)	(\$0.00249)	(\$0.03386)	\$0.33287	\$0.03333	\$0.36688

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MERC NNG SUM	IMARY OF COST BY CLASS:		EFFECTI\	/E DATE:	A			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rat		<u> </u>	August 1, 2019			
As approved in	Docket No. Go i i/iwik-17-304, to coincide with implement	lation of final fat	Prior	Current	Total	Current	Distribution	Total Billing
Class	Cost Category	Base Rate	Adjustments	Adjustments	Adjustments	Rate	Charge	Rate
Class	Cost Category	(Pg 1,III.)	Aujustinents	Aujustments	Aujustments	(Pg2,VI.)	Charge	Nate
		(i g i,iii.)				(i gz, vi.)		
A. NNG GS	Demand	\$0.09363	\$0.00130	\$0.00000	\$0.00130	\$0.09493		
	Commodity	\$0.36673	(\$0.07454)	\$0.00263	(\$0.07191)	\$0.29482		
	ACA	\$0.00000	\$0.02234	\$0.00000	\$0.02234	\$0.02234		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.24686	\$0.65895
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.22251	\$0.63460
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.16857	\$0.58066
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.12453	\$0.53662
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.05016	\$0.46225
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.05090)	\$0.00263	(\$0.04827)	\$0.41209	\$0.03486	\$0.44695
B. NNG Firm/	Demand	\$2.80890	\$0.03900	\$0.00000	\$0.03900	\$2.84790		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
	Firm/Interruptible Class 1						\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.07454)	\$0.00263	(\$0.07191)	\$0.29482		
	ACA	\$0.00000	\$0.04068	\$0.00000	\$0.04068	\$0.04068		
	Firm/Interruptible Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.15847	\$0.49397
	Firm/Interruptible Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.10453	\$0.44003
	Firm/Interruptible Class 3	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.09453	\$0.43003
	Firm/Interruptible Class 4	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.04823	\$0.38373
	Firm/Interruptible Class 5	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.03401	\$0.36951
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.12953	\$0.46503
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.08150	\$0.41700
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.05860	\$0.39410
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.09953	\$0.43503
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.03401	\$0.36951
C. NNG	Damand	#0.00000	#0.00000	CO 00000	¢0.00000	£0,00000	1	
	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
	Commodity	\$0.36673	(\$0.07454)	\$0.00263	(\$0.07191)	\$0.29482		
	ACA	\$0.00000	\$0.04068	\$0.00000	\$0.04068	\$0.04068	00.45045	
	Total - Interruptible Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.15847	\$0.49397
	Total - Interruptible Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.10453	\$0.44003
	Total Interruptible Class 3	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.09453	\$0.43003
	Total Interruptible Class 4	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.04823	\$0.38373
	Total - Interruptible Class 5	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.03401	\$0.36951
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.12953	\$0.46503
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.08150	\$0.41700
	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.05860	\$0.39410
	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.09953	\$0.43503
	Total - Interruptible Power Gen - Class 2	\$0.36673	(\$0.03386)	\$0.00263	(\$0.03123)	\$0.33550	\$0.03401	\$0.36951

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				VE DATE:	September 1, 2019			
As approved in	Docket No. G011/MR-17-564; to coincide with implement	ation of final rate				_		
	0.10.		Prior	Current	Total	Current	Distribution	Total Billing
Class	Cost Category	Base Rate	Adjustments	Adjustments	<u>Adjustments</u>	Rate	Charge	Rate
		(Pg 1,III.)				(Pg2,VI.)		
A. NNG GS	Demand	\$0.09363	\$0.00130	\$0.00000	\$0.00130	\$0.09493		
	Commodity	\$0.36673	(\$0.07191)	(\$0.00913)	(\$0.08104)	\$0.28569		
	ACA	\$0.00000	\$0.02234	(\$0.06361)	(\$0.04127)	(\$0.04127)		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.24686	\$0.58621
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.22251	\$0.56186
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.16857	\$0.50792
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.12453	\$0.46388
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.05016	\$0.38951
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.04827)	(\$0.07274)	(\$0.12101)	\$0.33935	\$0.03486	\$0.37421
B. NNG Firm/	Demand	\$2.80890	\$0.03900	\$0.00000	\$0.03900	\$2.84790		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
	Firm/Interruptible Class 1				*******		\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.07191)	(\$0.00913)	(\$0.08104)	\$0.28569		
	ACA	\$0.00000	\$0.04068	(\$0.01844)	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.15847	\$0.46640
	Firm/Interruptible Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.10453	\$0.41246
	Firm/Interruptible Class 3	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.09453	\$0.40246
	Firm/Interruptible Class 4	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.04823	\$0.35616
	Firm/Interruptible Class 5	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.03401	\$0.34194
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.12953	\$0.43746
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.08150	\$0.38943
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.05860	\$0.36653
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.09953	\$0.40746
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.03401	\$0.34194
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
	Commodity	\$0.36673	(\$0.07191)	(\$0.00913)	(\$0.08104)	\$0.28569		
	ACA	\$0.00000	\$0.04068	(\$0.01844)	\$0.02224	\$0.02224		
1	Total - Interruptible Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.15847	\$0.46640
	Total - Interruptible Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.10453	\$0.41246
1	Total - Interruptible Class 3	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.09453	\$0.40246
1	Total - Interruptible Class 4	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.04823	\$0.35616
1	Total - Interruptible Class 5	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.03401	\$0.34194
1	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.12953	\$0.43746
1	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.08150	\$0.38943
1	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.05860	\$0.36653
1	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.09953	\$0.40746
	Total - Interruptible Power Gen - Class 2	\$0.36673	(\$0.03123)	(\$0.02757)	(\$0.05880)	\$0.30793	\$0.03401	\$0.34194

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III LIKO IKKO OOM	MINIARY OF COOT BY CLASS.		EFFECTI	VE DATE:	October 1, 2019			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rat	es in Docket No	o. G011/GR-17-	563			
			Prior	Current	Total	Current	Distribution	Total Billing
<u>Class</u>	Cost Category	Base Rate	<u>Adjustments</u>	<u>Adjustments</u>	<u>Adjustments</u>	Rate	<u>Charge</u>	<u>Rate</u>
		(Pg 1,III.)				(Pg2,VI.)		
A. NNG GS	Demand	\$0.09363	\$0.00130	\$0.00000	\$0.00130	\$0.09493		
	Commodity	\$0.36673	(\$0.08104)	\$0.00644	(\$0.07460)	\$0.29213		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)		_
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.12101)	\$0.00644	(\$0.11457)	\$0.34579	\$0.24686	\$0.59265
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.12101)		(\$0.11457)	\$0.34579	\$0.22251	\$0.56830
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.12101)	\$0.00644	(\$0.11457)	\$0.34579	\$0.16857	\$0.51436
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.12101)	\$0.00644	(\$0.11457)	\$0.34579	\$0.12453	\$0.47032
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.12101)	\$0.00644	(\$0.11457)	\$0.34579	\$0.05016	\$0.39595
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.12101)	\$0.00644	(\$0.11457)	\$0.34579	\$0.03486	\$0.38065
B. NNG Firm/	Demand	\$2.80890	\$0.03900	\$0.00000	\$0.03900	\$2.84790		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
	Firm/Interruptible Class 1						\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.08104)	\$0.00644	(\$0.07460)	\$0.29213		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.15847	\$0.47284
	Firm/Interruptible Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.10453	\$0.41890
	Firm/Interruptible Class 3	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.09453	\$0.40890
	Firm/Interruptible Class 4	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.04823	\$0.36260
	Firm/Interruptible Class 5	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.03401	\$0.34838
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.12953	\$0.44390
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.08150	\$0.39587
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.05860	\$0.37297
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.09953	\$0.41390
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.03401	\$0.34838
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
o aptible	Commodity	\$0.36673	(\$0.08104)	\$0.00644	(\$0.07460)	\$0.29213		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Total - Interruptible Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.15847	\$0.47284
	Total - Interruptible Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.10453	\$0.41890
	Total - Interruptible Class 3	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.09453	\$0.40890
	Total - Interruptible Class 4	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.04823	\$0.36260
	Total - Interruptible Class 5	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.03401	\$0.34838
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.12953	\$0.44390
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.08150	\$0.39587
ĺ	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.05860	\$0.37297
ĺ	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.09953	\$0.41390
ĺ	Total - Interruptible Power Gen - Class 2	\$0.36673	(\$0.05880)	\$0.00644	(\$0.05236)	\$0.31437	\$0.03401	\$0.34838

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			EFFECTI	<u> -</u>	November 1, 2019			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rate	es in Docket No Prior	o. G011/GR-17-5 Current	563 Total	Current	Distribution	Total Pilling
Class	Cost Category	Base Rate	Adjustments	Adjustments	Adjustments	Rate	Charge	Total Billing Rate
Class	<u>Cost Category</u>	(Pg 1,III.)	Aujustinents	Aujustinents	Aujustments	(Pg2,VI.)	Charge	<u>ixate</u>
				(*	(2			
A. NNG GS	Demand	\$0.09363	\$0.00130	(\$0.00266)	(\$0.00136)	\$0.09227		
	Commodity	\$0.36673	(\$0.07460)	\$0.07444	(\$0.00016)	\$0.36657		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)	# 0.04000	60 00440
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.24686	\$0.66443
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.22251	\$0.64008
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.16857	\$0.58614
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.12453	\$0.54210
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.05016	\$0.46773
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.11457)	\$0.07178	(\$0.04279)	\$0.41757	\$0.03486	\$0.45243
B. NNG Firm/	Demand	\$2.80890	\$0.03900	(\$0.07980)	(\$0.04080)	\$2.76810		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
	Firm/Interruptible Class 1						\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.07460)	\$0.07444	(\$0.00016)	\$0.36657		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.15847	\$0.54728
	Firm/Interruptible Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.10453	\$0.49334
	Firm/Interruptible Class 3	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.09453	\$0.48334
	Firm/Interruptible Class 4	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.04823	\$0.43704
	Firm/Interruptible Class 5	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.03401	\$0.42282
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.12953	\$0.51834
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.08150	\$0.47031
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.05860	\$0.44741
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.09953	\$0.48834
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.03401	\$0.42282
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
interruptible	Commodity	\$0.36673	(\$0.07460)	\$0.07444	(\$0.00016)	\$0.36657		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
ĺ	Total - Interruptible Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02224	\$0.38881	\$0.15847	\$0.54728
ĺ	Total - Interruptible Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.10453	\$0.49334
ĺ	Total - Interruptible Class 3	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.09453	\$0.48334
ĺ	Total - Interruptible Class 4	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.04823	\$0.43704
1	Total - Interruptible Class 5	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.03401	\$0.42282
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.12953	\$0.51834
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.08150	\$0.47031
	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.05860	\$0.44741
	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.09953	\$0.48834
1	Total - Interruptible Power Gen - Class 2	\$0.36673	(\$0.05236)	\$0.07444	\$0.02208	\$0.38881	\$0.03401	\$0.42282

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	B 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1		EFFECTI	<u> </u>	December 1, 2019			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rat). G011/GR-17- Current	563 Total	Current	Diatribution	Total Billing
Class	Cost Category	Base Rate	Prior Adjustments	Adjustments	Adjustments	Current <u>Rate</u>	Distribution Charge	Total Billing <u>Rate</u>
Class	Cost Category	(Pg 1,III.)	Aujustments	Aujustments	Aujustments	(Pg2,VI.)	Charge	Rate
		(1 g 1,111.)				(i gz, vi.)		
A. NNG GS	Demand	\$0.09363	(\$0.00136)	\$0.00000	(\$0.00136)	\$0.09227		
	Commodity	\$0.36673	(\$0.00016)	\$0.00812	\$0.00557	\$0.37230		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.24686	\$0.67016
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.22251	\$0.64581
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.16857	\$0.59187
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.12453	\$0.54783
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.05016	\$0.47346
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.04279)	\$0.00812	(\$0.03706)	\$0.42330	\$0.03486	\$0.45816
B. NNG Firm/	Demand	\$2.80890	(\$0.04080)	\$0.00000	(\$0.04080)	\$2.76810	1	
Interruptible	ACA	\$2.80890	\$0.00000	\$0.00000	\$0.04080)	\$0.00000	1	
terruptible	Firm/Interruptible Class 1	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυ	φυ.υυυυ	φυ.υυυυυ	\$1.92120	\$6,41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.00016)	(\$0.01485)	\$0.00557	\$0.37230	ψ0.02330	ψ4.32310
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.15847	\$0.55301
	Firm/Interruptible Class 2	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.10453	\$0.49907
	Firm/Interruptible Class 3	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.09453	\$0.48907
	Firm/Interruptible Class 4	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.04823	\$0.44277
	Firm/Interruptible Class 5	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.03401	\$0.42855
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.12953	\$0.52407
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.08150	\$0.47604
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.05860	\$0.45314
	Firm/Interruptible Power Gen - Class 1	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.09953	\$0.49407
	Firm/Interruptible Power Gen - Class 2	\$0.36673	\$0.02208	(\$0.01485)	\$0.02781	\$0.39454	\$0.03401	\$0.42855
	•							
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	1	
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
	Commodity	\$0.36673	(\$0.00016)	(\$0.01564)	\$0.00557	\$0.37230		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Total - Interruptible Class 1	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.15847	\$0.55301
	Total - Interruptible Class 2	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.10453	\$0.49907
	Total - Interruptible Class 3	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.09453	\$0.48907
	Total - Interruptible Class 4	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.04823	\$0.44277
	Total - Interruptible Class 5	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.03401	\$0.42855
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.12953	\$0.52407
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.08150	\$0.47604
	Total - Interruptible Ag Dryer - Class 3	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.05860	\$0.45314
	Total - Interruptible Power Gen - Class 1	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.09953	\$0.49407
	Total - Interruptible Power Gen - Class 2	\$0.36673	\$0.02208	(\$0.01564)	\$0.02781	\$0.39454	\$0.03401	\$0.42855

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			EFFECTI	ļ 	January 1, 2020			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rate	es in Docket No Prior	o. G011/GR-17-5 Current	563 Total	Current	Distribution	Total Billing
Class	Cost Category	Base Rate	Adjustments	Adjustments	Adjustments	Rate	Charge	Rate
Class	Cost Category	(Pg 1,III.)	Aujustinents	Aujustments	Aujustments	(Pg2,VI.)	Charge	ixate
		(i g i,)				(1 92, 11.)		
A. NNG GS	Demand	\$0.09363	(\$0.00136)	\$0.05765	\$0.05629	\$0.14992		
	Commodity	\$0.36673	\$0.00557	(\$0.00467)	(\$0.00149)	\$0.36524		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.24686	\$0.72075
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.22251	\$0.69640
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.16857	\$0.64246
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.12453	\$0.59842
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.05016	\$0.52405
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.03706)	\$0.05298	\$0.01353	\$0.47389	\$0.03486	\$0.50875
B. NNG Firm/	Damand	#2 00000	(f0.04000)	£4.700E0	£4.00070	£4.40700		
Interruptible	Demand ACA	\$2.80890 \$0.00000	(\$0.04080) \$0.00000	\$1.72950 \$0.00000	\$1.68870 \$0.00000	\$4.49760 \$0.00000		
terruptible	Firm/Interruptible Class 1	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ	φυ.υυυυυ	\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 2 Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 3 Firm/Interruptible Class 4						\$0.90000	\$4.55550
	Firm/Interruptible Class 5						\$0.03790	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	•	\$0.36673	\$0.00557	(fto 00704)	(0.00440)	\$0.36524	\$0.02550	φ4.32310
	Commodity ACA	\$0.00000	\$0.00557	(\$0.02764) \$0.00000	(\$0.00149) \$0.02224	\$0.36524		
							CO 45047	CO E 4EOE
	Firm/Interruptible Class 1	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.15847	\$0.54595
	Firm/Interruptible Class 2	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.10453 \$0.09453	\$0.49201 \$0.48201
	Firm/Interruptible Class 3 Firm/Interruptible Class 4	\$0.36673 \$0.36673	\$0.02781 \$0.02781	(\$0.02764) (\$0.02764)	\$0.02075 \$0.02075	\$0.38748 \$0.38748	\$0.09433	\$0.48201 \$0.43571
				,				*
	Firm/Interruptible Class 5	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.03401	\$0.42149
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.12953	\$0.51701
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.08150 \$0.05860	\$0.46898
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748		\$0.44608
	Firm/Interruptible Power Gen - Class 1	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.09953	\$0.48701
	Firm/Interruptible Power Gen - Class 2	\$0.36673	\$0.02781	(\$0.02764)	\$0.02075	\$0.38748	\$0.03401	\$0.42149
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
	Commodity	\$0.36673	\$0.00557	(\$0.02843)	(\$0.00149)	\$0.36524		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Total - Interruptible Class 1	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.15847	\$0.54595
	Total - Interruptible Class 2	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.10453	\$0.49201
	Total - Interruptible Class 3	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.09453	\$0.48201
	Total - Interruptible Class 4	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.04823	\$0.43571
	Total - Interruptible Class 5	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.03401	\$0.42149
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.12953	\$0.51701
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.08150	\$0.46898
	Total - Interruptible Ag Dryer - Class 2 Total - Interruptible Ag Dryer - Class 3	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.05150	\$0.44608
	Total - Interruptible Power Gen - Class 1	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.03660	\$0.48701
1	Total - Interruptible Power Gen - Class 1 Total - Interruptible Power Gen - Class 2	\$0.36673	\$0.02781	(\$0.02843)	\$0.02075	\$0.38748	\$0.09953	\$0.42149

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EFFECTIVE DATE: February 1, 2020 As approved in Docket No. G011/MR-17-564: to coincide with implementation of final rates in Docket No. G011/GR-17-563 Total Billing Prior Current Total Current Distribution Cost Category Base Rate Adjustments Class **Adjustments** Adjustments Rate ** Charge Rate (Pg2,VI.) (Pa 1.III.) A. NNG GS Demand \$0.09363 \$0.05629 \$0.00000 \$0.05629 \$0.14992 Commodity \$0.36673 (\$0.00149) (\$0.02886) (\$0.03035) \$0.33638 ACA \$0.00000 (\$0.04127)\$0.00000 (\$0.04127)(\$0.04127 \$0.46036 \$0.01353 (\$0.02886) (\$0.01533) \$0.44503 Total-Residential & Residential-Farm Tap \$0.24686 \$0.69189 Total C&I Firm-Class 1 and C&I Farm Tap-Class 1 \$0.46036 \$0.01353 (\$0.02886) (\$0.01533) \$0.44503 \$0.22251 \$0.66754 \$0.46036 (\$0.01533) Total C&I Firm-Class 2 and C&I Farm Tap-Class 2 \$0.01353 \$0.44503 \$0.16857 \$0.61360 (\$0.02886) Total C&I Firm-Class 3 and C&I Farm Tap-Class 3 \$0.46036 \$0.01353 (\$0.02886) (\$0.01533) \$0.44503 \$0.12453 \$0.56956 Total C&I Firm-Class 4 and C&I Farm Tan-Class 4 \$0.46036 (\$0.02886) (\$0.01533) \$0.44503 \$0.05016 \$0.49519 \$0.01353 Total C&I Firm-Class 5 and C&I Farm Tap-Class 5 \$0.44503 \$0.47989 \$0.46036 \$0.01353 (\$0.02886)(\$0.01533) \$0.03486 B. NNG Firm/ Demand \$2.80890 \$1.68870 \$0.00000 \$1.68870 \$4,49760 ACA \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 Interruptible Firm/Interruptible Class 1 \$1.92120 \$6.41880 Firm/Interruptible Class 2 \$1.92120 \$6.41880 Firm/Interruptible Class 3 \$0.90000 \$5.39760 Firm/Interruptible Class 4 \$0.05790 \$4 55550 \$0.02550 \$4.52310 Firm/Interruptible Class 5 Firm/Interruptible Power Gen - Class 2 \$0.02550 \$4.52310 \$0.36673 (\$0.00149) \$0.00755 \$0.00606 \$0.37279 Commodity ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Firm/Interruptible Class 1 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.15847 \$0.55350 \$0.49956 Firm/Interruptible Class 2 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.10453 \$0.48956 Firm/Interruptible Class 3 \$0.00755 \$0.02830 \$0.09453 \$0.36673 \$0.02075 \$0.39503 \$0.00755 \$0.04823 \$0.44326 Firm/Interruptible Class 4 \$0.36673 \$0.02075 \$0.02830 \$0.39503 Firm/Interruptible Class 5 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.03401 \$0.42904 Firm/Interruptible Ag Dryer - Class 1 \$0.36673 \$0.02830 \$0.00755 \$0.02830 \$0.39503 \$0.12953 \$0.52456 Firm/Interruptible Ag Dryer - Class 2 \$0.36673 \$0.02830 \$0.00755 \$0.02830 \$0.39503 \$0.08150 \$0.47653 Firm/Interruptible Ag Dryer - Class 3 \$0.36673 \$0.02830 \$0.00755 \$0.02830 \$0.39503 \$0.05860 \$0.45363 Firm/Interruptible Power Gen - Class 1 \$0.36673 \$0.02830 \$0.00755 \$0.02830 \$0.39503 \$0.09953 \$0.49456 Firm/Interruptible Power Gen - Class 2 \$0.00755 \$0.39503 \$0.36673 \$0.02830 \$0.02830 \$0.03401 \$0.42904 C. NNG \$0.00000 Demand \$0.00000 \$0.00000 \$0.00000 \$0.00000 Interruptible TF 0.75776 \$0.00000 \$0.00000 \$0.00000 0.75776 Commodity \$0.36673 (\$0.00149)\$0.00755 \$0.00606 \$0.37279 ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Total - Interruptible Class 1 \$0.00755 \$0.02830 \$0.15847 \$0.55350 \$0.36673 \$0.02075 \$0.39503 Total - Interruptible Class 2 \$0.36673 \$0.00755 \$0.02830 \$0.39503 \$0.10453 \$0.49956 \$0.02075 Total - Interruptible Class 3 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.09453 \$0.48956 Total - Interruptible Class 4 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.04823 \$0.44326 Total - Interruptible Class 5 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.03401 \$0.42904 Total - Interruptible Ag Dryer - Class 1 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.12953 \$0.52456 \$0.00755 \$0.08150 \$0.47653 Total - Interruptible Ag Dryer - Class 2 \$0.36673 \$0.02075 \$0.02830 \$0.39503 Total - Interruptible Ag Dryer - Class 3 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.05860 \$0.45363 \$0.49456 Total - Interruptible Power Gen - Class 1 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.09953 Total - Interruptible Power Gen - Class 2 \$0.36673 \$0.02075 \$0.00755 \$0.02830 \$0.39503 \$0.03401 \$0.42904

^{**} Inclusive of Correction Per MPUC Final Order Point No. 3 in Docket No. 18-526.

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March 1, 2020 EFFECTIVE DATE: As approved in Docket No. G011/MR-17-564; to coincide with implementation of final rates in Docket No. G011/GR-17-563 Total Billing Prior Current Total Current Distribution Cost Category Base Rate Adjustments Class **Adjustments** Adjustments Rate ** Charge Rate (Pg2,VI.) (Pa 1.III.) A. NNG GS Demand \$0.09363 \$0.05629 \$0.00000 \$0.05629 \$0.14992 Commodity \$0.36673 (\$0.03035) (\$0.01385) (\$0.04420) \$0.32253 ACA \$0.00000 (\$0.04127)\$0.00000 (\$0.04127)(\$0.04127 \$0.46036 (\$0.01533) (\$0.01385) (\$0.02918) \$0.43118 Total-Residential & Residential-Farm Tap \$0.24686 \$0.67804 Total C&I Firm-Class 1 and C&I Farm Tap-Class 1 \$0.46036 (\$0.01533) (\$0.01385) (\$0.02918) \$0.43118 \$0.22251 \$0.65369 \$0.46036 Total C&I Firm-Class 2 and C&I Farm Tap-Class 2 (\$0.01385) \$0.43118 \$0.16857 \$0.59975 (\$0.01533) (\$0.02918) Total C&I Firm-Class 3 and C&I Farm Tap-Class 3 \$0.46036 (\$0.01533)(\$0.01385) (\$0.02918) \$0.43118 \$0.12453 \$0.55571 Total C&I Firm-Class 4 and C&I Farm Tan-Class 4 \$0.46036 (\$0.01385) \$0.05016 \$0.48134 (\$0.01533) (\$0.02918) \$0.43118 Total C&I Firm-Class 5 and C&I Farm Tap-Class 5 \$0.46036 (\$0.01533)(\$0.01385)(\$0.02918) \$0.43118 \$0.03486 \$0.46604 B. NNG Firm/ Demand \$2.80890 \$1.68870 \$0.00000 \$1.68870 \$4,49760 ACA \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 Interruptible Firm/Interruptible Class 1 \$1.92120 \$6.41880 Firm/Interruptible Class 2 \$1.92120 \$6.41880 Firm/Interruptible Class 3 \$0.90000 \$5.39760 Firm/Interruptible Class 4 \$0.05790 \$4 55550 \$0.02550 \$4.52310 Firm/Interruptible Class 5 Firm/Interruptible Power Gen - Class 2 \$0.02550 \$4.52310 \$0.36673 \$0.00606 (\$0.01385) (\$0.00779) \$0.35894 Commodity ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Firm/Interruptible Class 1 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.15847 \$0.53965 Firm/Interruptible Class 2 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.10453 \$0.48571 \$0.47571 Firm/Interruptible Class 3 (\$0.01385) \$0.01445 \$0.38118 \$0.09453 \$0.36673 \$0.02830 (\$0.01385) \$0.04823 \$0.42941 Firm/Interruptible Class 4 \$0.36673 \$0.02830 \$0.01445 \$0.38118 Firm/Interruptible Class 5 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.03401 \$0.41519 Firm/Interruptible Ag Dryer - Class 1 \$0.36673 \$0.02830 (\$0.01385)\$0.01445 \$0.38118 \$0.12953 \$0.51071 Firm/Interruptible Ag Dryer - Class 2 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.08150 \$0.46268 \$0.01445 Firm/Interruptible Ag Dryer - Class 3 \$0.36673 \$0.02830 (\$0.01385) \$0.38118 \$0.05860 \$0.43978 Firm/Interruptible Power Gen - Class 1 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.09953 \$0.48071 Firm/Interruptible Power Gen - Class 2 \$0.01445 \$0.38118 \$0.36673 \$0.02830 (\$0.01385) \$0.03401 \$0.41519 C. NNG \$0.00000 Demand \$0,00000 \$0.00000 \$0.00000 \$0.00000 Interruptible TF 0.75776 \$0.00000 \$0.00000 \$0.00000 0.75776 Commodity \$0.36673 \$0.00606 (\$0.01385)(\$0.00779) \$0.35894 ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Total - Interruptible Class 1 (\$0.01385) \$0.01445 \$0.15847 \$0.53965 \$0.36673 \$0.02830 \$0.38118 Total - Interruptible Class 2 \$0.36673 (\$0.01385) \$0.01445 \$0.38118 \$0.10453 \$0.48571 \$0.02830 Total - Interruptible Class 3 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.09453 \$0.47571 Total - Interruptible Class 4 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.04823 \$0.42941 Total - Interruptible Class 5 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.03401 \$0.41519 Total - Interruptible Ag Dryer - Class 1 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.12953 \$0.51071 \$0.01445 \$0.08150 \$0.46268 Total - Interruptible Ag Dryer - Class 2 \$0.36673 \$0.02830 (\$0.01385) \$0.38118 Total - Interruptible Ag Dryer - Class 3 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.05860 \$0.43978 \$0.48071 Total - Interruptible Power Gen - Class 1 \$0.36673 \$0.02830 (\$0.01385) \$0.01445 \$0.38118 \$0.09953

\$0.36673

\$0.02830

(\$0.01385)

\$0.01445

\$0.38118

\$0.03401

\$0.41519

Total - Interruptible Power Gen - Class 2 \$0

** Inclusive of Correction Per MPUC Final Order Point No. 3 in Docket No. 18-526.

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EFFECTIVE DATE: April 1, 2020 As approved in Docket No. G011/MR-17-564; to coincide with implementation of final rates in Docket No. G011/GR-17-563 Total Billing Prior Current Total Current Distribution Cost Category Base Rate Adjustments Class **Adjustments** Adjustments Rate ** Charge Rate (Pg2,VI.) (Pa 1.III.) A. NNG GS Demand \$0.09363 \$0.05629 \$0.00000 \$0.05629 \$0.14992 Commodity \$0.36673 (\$0.04420) (\$0.02642) (\$0.07062) \$0.29611 ACA \$0.00000 (\$0.04127)\$0.00000 (\$0.04127)(\$0.04127 \$0.46036 (\$0.02918) (\$0.02642) (\$0.05560) \$0.40476 \$0.65162 Total-Residential & Residential-Farm Tap \$0.24686 Total C&I Firm-Class 1 and C&I Farm Tap-Class 1 \$0.46036 (\$0.02918) (\$0.02642) (\$0.05560) \$0.40476 \$0.22251 \$0.62727 \$0.46036 Total C&I Firm-Class 2 and C&I Farm Tap-Class 2 (\$0.02642) \$0.40476 \$0.16857 \$0.57333 (\$0.02918) (\$0.05560) Total C&I Firm-Class 3 and C&I Farm Tap-Class 3 \$0.46036 (\$0.02918) (\$0.02642) (\$0.05560) \$0.40476 \$0.12453 \$0.52929 Total C&I Firm-Class 4 and C&I Farm Tan-Class 4 \$0.46036 (\$0.02642) (\$0.05560) \$0.40476 \$0.05016 \$0.45492 (\$0.02918) Total C&I Firm-Class 5 and C&I Farm Tap-Class 5 \$0.40476 \$0.46036 (\$0.02918) (\$0.02642) (\$0.05560) \$0.03486 \$0.43962 B. NNG Firm/ Demand \$2.80890 \$1.68870 \$0.00000 \$1.68870 \$4,49760 ACA \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 Interruptible Firm/Interruptible Class 1 \$1.92120 \$6.41880 Firm/Interruptible Class 2 \$1.92120 \$6.41880 Firm/Interruptible Class 3 \$0.90000 \$5.39760 Firm/Interruptible Class 4 \$0.05790 \$4 55550 \$0.02550 \$4.52310 Firm/Interruptible Class 5 Firm/Interruptible Power Gen - Class 2 \$0.02550 \$4.52310 \$0.36673 (\$0.00779) (\$0.02642) (\$0.03421) \$0.33252 Commodity ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Firm/Interruptible Class 1 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.15847 \$0.51323 Firm/Interruptible Class 2 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.10453 \$0.45929 \$0.44929 Firm/Interruptible Class 3 \$0.01445 (\$0.01197) \$0.35476 \$0.09453 \$0.36673 (\$0.02642) \$0.04823 \$0.40299 Firm/Interruptible Class 4 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 Firm/Interruptible Class 5 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.03401 \$0.38877 Firm/Interruptible Ag Dryer - Class 1 \$0.36673 \$0.01445 (\$0.02642)(\$0.01197) \$0.35476 \$0.12953 \$0.48429 Firm/Interruptible Ag Dryer - Class 2 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.08150 \$0.43626 Firm/Interruptible Ag Dryer - Class 3 \$0.36673 \$0.01445 (\$0.02642)(\$0.01197) \$0.35476 \$0.05860 \$0.41336 Firm/Interruptible Power Gen - Class 1 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.09953 \$0.45429 Firm/Interruptible Power Gen - Class 2 \$0.35476 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.03401 \$0.38877 \$0,00000 C. NNG Demand \$0.00000 \$0.00000 \$0.00000 \$0.00000 Interruptible TF 0.75776 \$0.00000 \$0.00000 \$0.00000 0.75776 Commodity \$0.36673 (\$0.00779)(\$0.02642)(\$0.03421) \$0.33252 ACA \$0.00000 \$0.02224 \$0.00000 \$0.02224 \$0.02224 Total - Interruptible Class 1 (\$0.02642) \$0.15847 \$0.51323 \$0.36673 \$0.01445 (\$0.01197)\$0.35476 Total - Interruptible Class 2 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.10453 \$0.45929 Total - Interruptible Class 3 \$0.36673 \$0.01445 (\$0.02642) \$0.35476 \$0.09453 \$0.44929 (\$0.01197) Total - Interruptible Class 4 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.04823 \$0.40299 Total - Interruptible Class 5 \$0.36673 \$0.01445 (\$0.02642)(\$0.01197) \$0.35476 \$0.03401 \$0.38877 Total - Interruptible Ag Dryer - Class 1 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197)\$0.35476 \$0.12953 \$0.48429 (\$0.01197) \$0.08150 \$0.43626 Total - Interruptible Ag Dryer - Class 2 \$0.36673 \$0.01445 (\$0.02642) \$0.35476 Total - Interruptible Ag Dryer - Class 3 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.05860 \$0.41336 \$0.45429 Total - Interruptible Power Gen - Class 1 \$0.36673 \$0.01445 (\$0.02642) (\$0.01197) \$0.35476 \$0.09953

\$0.36673

\$0.01445

(\$0.02642)

(\$0.01197)

\$0.35476

\$0.03401

\$0.38877

Total - Interruptible Power Gen - Class 2 \$0

** Inclusive of Correction Per MPUC Final Order Point No. 3 in Docket No. 18-526.

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			EFFECTI	<u> </u>	May 1, 2020			
As approved in [Docket No. G011/MR-17-564; to coincide with implement	ation of final rat					51 . 11 . 11	T
01	010-1	D D-1-	Prior	Current	Total	Current	Distribution	Total Billing
<u>Class</u>	Cost Category	Base Rate (Pg 1,III.)	<u>Adjustments</u>	<u>Adjustments</u>	<u>Adjustments</u>	Rate ** (Pg2,VI.)	<u>Charge</u>	Rate
		(i g i,iii.)				(i gz, vi.)		
A. NNG GS	Demand	\$0.09363	\$0.05629	\$0.00000	\$0.05629	\$0.14992		
	Commodity	\$0.36673	(\$0.07062)	\$0.02794	(\$0.04268)	\$0.32405		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.24686	\$0.67956
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.22251	\$0.65521
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.16857	\$0.60127
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.12453	\$0.55723
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.05016	\$0.48286
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.05560)	\$0.02794	(\$0.02766)	\$0.43270	\$0.03486	\$0.46756
B. NNG Firm/	Demand	\$2.80890	\$1.68870	\$0.00000	\$1.68870	\$4.49760	l	
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
into ruptio	Firm/Interruptible Class 1	ψ0.00000	ψ0.00000	ψ0.00000	ψ0.00000	ψο.σσσσσ	\$1.92120	\$6.41880
	Firm/Interruptible Class 2						\$1.92120	\$6.41880
	Firm/Interruptible Class 3						\$0.90000	\$5.39760
	Firm/Interruptible Class 4						\$0.05790	\$4.55550
	Firm/Interruptible Class 5						\$0.02550	\$4.52310
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$4.52310
	Commodity	\$0.36673	(\$0.03421)	\$0.02794	(\$0.00627)	\$0.36046	,	•
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.15847	\$0.54117
	Firm/Interruptible Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.10453	\$0.48723
	Firm/Interruptible Class 3	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.09453	\$0.47723
	Firm/Interruptible Class 4	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.04823	\$0.43093
	Firm/Interruptible Class 5	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.03401	\$0.41671
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.12953	\$0.51223
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.08150	\$0.46420
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.05860	\$0.44130
	Firm/Interruptible Power Gen - Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.09953	\$0.48223
	Firm/Interruptible Power Gen - Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.03401	\$0.41671
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	0.75776	\$0.00000	\$0.00000	\$0.00000	0.75776		
Interruptible	Commodity	\$0.36673	(\$0.03421)	\$0.02794	(\$0.00627)	\$0.36046		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Total - Interruptible Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.15847	\$0.54117
	Total - Interruptible Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.10453	\$0.48723
	Total - Interruptible Class 3	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.09453	\$0.47723
	Total - Interruptible Class 4	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.04823	\$0.43093
	Total - Interruptible Class 5	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.03401	\$0.41671
	Total - Interruptible Ag Dryer - Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.12953	\$0.51223
	Total - Interruptible Ag Dryer - Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.08150	\$0.46420
	Total - Interruptible Ag Dryer - Class 3	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.05860	\$0.44130
	Total - Interruptible Power Gen - Class 1	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.09953	\$0.48223
1	Total - Interruptible Power Gen - Class 2	\$0.36673	(\$0.01197)	\$0.02794	\$0.01597	\$0.38270	\$0.03401	\$0.41671

^{**} Inclusive of Correction Per MPUC Final Order Point No. 3 in Docket No. 18-526.

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			EFFECTI	VE DATE:	June 1, 2020			
As approved in	Docket No. G011/MR-17-564; to coincide with implemen	tation of final rat						
			Prior	Current	Total	Current	Distribution	Total Billing
<u>Class</u>	Cost Category	Base Rate	<u>Adjustments</u>	<u>Adjustments</u>	<u>Adjustments</u>	Rate **	<u>Charge</u>	Rate
		(Pg 1,III.)				(Pg2,VI.)		
A. NNG GS	Demand	\$0.09363	\$0.05629	(\$0.03631)	\$0.01998	\$0.11361		
	Commodity	\$0.36673	(\$0.04268)	(\$0.03011)	(\$0.07279)	\$0.29394		
	ACA	\$0.00000	(\$0.04127)	\$0.00000	(\$0.04127)	(\$0.04127)		
	Total-Residential & Residential-Farm Tap	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.24686	\$0.61314
	Total C&I Firm-Class 1 and C&I Farm Tap-Class 1	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.22251	\$0.58879
	Total C&I Firm-Class 2 and C&I Farm Tap-Class 2	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.16857	\$0.53485
	Total C&I Firm-Class 3 and C&I Farm Tap-Class 3	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.12453	\$0.49081
	Total C&I Firm-Class 4 and C&I Farm Tap-Class 4	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.05016	\$0.41644
	Total C&I Firm-Class 5 and C&I Farm Tap-Class 5	\$0.46036	(\$0.02766)	(\$0.06642)	(\$0.09408)	\$0.36628	\$0.03486	\$0.40114
B. NNG Firm/	Demand	\$2.80890	\$1.68870	(\$1.08930)	\$0.59940	\$3,40830		
Interruptible	ACA	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
	Firm/Interruptible Class 1	*		*	** ****		\$1.92120	\$5.32950
	Firm/Interruptible Class 2						\$1.92120	\$5.32950
	Firm/Interruptible Class 3						\$0.90000	\$4.30830
	Firm/Interruptible Class 4						\$0.05790	\$3.46620
	Firm/Interruptible Class 5						\$0.02550	\$3.43380
	Firm/Interruptible Power Gen - Class 2						\$0.02550	\$3.43380
	Commodity	\$0.36673	(\$0.00627)	(\$0.03011)	(\$0.03638)	\$0.33035	,	**
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
	Firm/Interruptible Class 1	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.15847	\$0.51106
	Firm/Interruptible Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.10453	\$0.45712
	Firm/Interruptible Class 3	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.09453	\$0.44712
	Firm/Interruptible Class 4	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.04823	\$0.40082
	Firm/Interruptible Class 5	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.03401	\$0.38660
	Firm/Interruptible Ag Dryer - Class 1	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.12953	\$0.48212
	Firm/Interruptible Ag Dryer - Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.08150	\$0.43409
	Firm/Interruptible Ag Dryer - Class 3	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.05860	\$0.41119
	Firm/Interruptible Power Gen - Class 1	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.09953	\$0.45212
	Firm/Interruptible Power Gen - Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.03401	\$0.38660
C. NNG	Demand	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000		
Interruptible	TF	\$0.75776	\$0.00000	\$0.00000	\$0.00000	\$0.75776		
terruptible	Commodity	\$0.36673	(\$0.00627)	(\$0.03011)	(\$0.03638)	\$0.73776		
	ACA	\$0.00000	\$0.02224	\$0.00000	\$0.02224	\$0.02224		
ĺ	Total - Interruptible Class 1	\$0.36673	\$0.02224	(\$0.03011)	(\$0.01414)	\$0.02224	\$0.15847	\$0.51106
ĺ	Total - Interruptible Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.10453	\$0.45712
ĺ	Total - Interruptible Class 3	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.09453	\$0.44712
ĺ	Total - Interruptible Class 4	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.04823	\$0.40082
ĺ	Total - Interruptible Class 5	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.03401	\$0.38660
ĺ	Total - Interruptible Ag Dryer - Class 1	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.12953	\$0.48212
ĺ	Total - Interruptible Ag Dryer - Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.08150	\$0.43409
ĺ	Total - Interruptible Ag Dryer - Class 3	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.05860	\$0.41119
ĺ	Total - Interruptible Power Gen - Class 1	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.09953	\$0.45212
1	Total - Interruptible Power Gen - Class 2	\$0.36673	\$0.01597	(\$0.03011)	(\$0.01414)	\$0.35259	\$0.03401	\$0.38660

^{**} Inclusive of Correction Per MPUC Final Order Point No. 3 in Docket No. 18-526.

12 MONTHS ENDED JUNE 2020 SUMMARY OF PURCHASED VOLUMES AND COSTS Schedule C & D

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8/20/2020

NNG	Jul-19	Aug-19		Sep-19	0	Oct-19		Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	A	pr-20	May-20		Jun-20		Total
Dth	565,776	567,	551	601,337	2	2,182,106		4,066,994	4,272,895	4,724,891	4,239,451	2,980,716	2	,098,551	1,069,582		661,332		28,031,282
Demand \$	\$ 618,114	\$ 620,	228	\$ 627,788	\$	656,860	\$	2,925,693	\$ 2,967,233	\$ 4,660,949	\$ 4,630,208	\$ 4,624,418	\$	888,056	\$ 434,353	\$	642,623	,	\$24,296,523
Curtailment Penalty Revenue \$	\$ -	\$	-	\$ -	\$	-	\$	13,061	\$ -	\$ -	\$ -	\$ - (\$	-	\$ -	\$	-	\$	13,061
Total Demand \$	\$ 618,114	\$ 620,	228	\$ 627,788	\$	656,860	\$	2,938,754	\$ 2,967,233	\$ 4,660,949	\$ 4,630,208	\$ 4,624,418	\$	888,056	\$ 434,353	\$	642,623	,	\$24,309,584
Commodity \$	\$ 3,500,026	\$ 3,476,	329	\$ 3,449,555	\$ 6	6,743,039	\$	12,460,266	\$ 13,290,347	\$ 13,420,672	\$ 11,133,700	\$ 8,214,257	\$ 5	,846,791	\$ 4,505,300	\$.	4,287,869	9	\$90,328,151
NBPL Capacity Release	\$ (790,833)	\$ (790,	333)	\$ (790,833)	\$	(790,833)	\$	(790,833)	\$ (790,833)	\$ (790,833)	\$ (790,833)	\$ (790,833)	\$	(632,667)	\$ (632,667)	\$	(632,667)		(\$9,015,501)
Total Commodity \$	\$ 2,709,193	\$ 2,685,	196	\$ 2,658,722	\$ 5	5,952,205	\$	11,669,433	\$ 12,499,513	\$ 12,629,838	\$ 10,342,867	\$ 7,423,423	\$ 5	,214,124	\$ 3,872,633	\$	3,655,202	\$	81,312,650
NNG Total \$	\$ 3,327,307	\$ 3,305,	24	\$ 3,286,510	\$ 6	6,609,065	\$ '	14,608,187	\$ 15,466,746	\$ 17,290,788	\$ 14,973,075	\$ 12,047,842	\$ 6	,102,179	\$ 4,306,985	\$	4,297,825	\$1	105,622,234

Notes

Cost recovery of Bison and Northern Border Pipeline costs being shifted from demand rate factor to commodity rate factor per Docket No. G-007/M-10-1166 and G-011/M-10-1168 dated January 21, 2015 Cost recovery of various Rochester costs are being shifted from demand rate factor to commodity rate factor per Docket No. M-15-895 dated May 5, 2017

12 MONTHS ENDED JUNE 2020 PURCHASES BY CLASS

Schedule D.1

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NNG 8/20/2020

NNG	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Total
GS-Demand	\$ 615,409	\$ 617,523	\$ 625,082	\$ 654,155	\$ 2,936,124	\$ 2,964,603	\$ 4,656,677	\$ 4,625,936	\$ 4,620,146	\$ 883,783	\$ 430,080	\$ 639,385	\$24,268,901
GS-Commodity	\$2,315,798	\$2,290,129	\$2,247,436	\$5,326,802	\$10,058,569	\$10,637,671	\$11,728,085	\$9,651,898	\$6,861,935	\$4,812,333	\$3,482,623	\$3,188,847	\$72,602,125
GS TOTAL	\$2,931,207	\$2,907,651	\$2,872,518	\$5,980,957	\$12,994,693	\$13,602,274	\$16,384,761	\$14,277,834	\$11,482,080	\$5,696,115	\$3,912,703	\$3,828,232	\$96,871,026
Interruptible	\$391,930	\$394,250	\$409,901	\$622,935	\$1,609,321	\$1,860,686	\$894,931	\$686,392	\$557,776	\$399,724	\$388,213	\$464,835	\$8,680,895
Firm/Interruptible Commodity	\$1,465	\$1,118	\$1,385	\$2,468	\$1,543	\$1,157	\$6,822	\$4,576	\$3,713	\$2,067	\$1,796	\$1,520	\$29,631
Firm/Interruptible Demand	\$2,706	\$2,706	\$2,706	\$2,706	\$2,630	\$2,630	\$4,273	\$4,273	\$4,273	\$4,273	\$4,273	\$3,238	\$40,683
TOTAL-Dem TOTAL-Com NNG TOTAL	\$618,114 \$2,709,193 \$3,327,307	\$620,228 \$2,685,496 \$3,305,724	\$627,788 \$2,658,722 \$3,286,510	\$656,860 \$5,952,205 \$6,609,065	\$2,938,754 \$11,669,433 \$14,608,187	\$2,967,233 \$12,499,513 \$15,466,746	\$4,660,949 \$12,629,838 \$17,290,788	\$4,630,208 \$10,342,867 \$14,973,075	\$4,624,418 \$7,423,423 \$12,047,842	\$888,056 \$5,214,124 \$6,102,179	\$434,353 \$3,872,633 \$4,306,985	\$642,623 \$3,655,202 \$4,297,825	\$24,309,584 \$81,312,650 \$105,622,234

MINNESOTA ENERGY RESOUR	CES - NNG

12 MONTHS ENDED JUNE 2020

Schedule D.2

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			GAS	12 MONTH COST RECOVER	S ENDED JUNE Y AND PURCHASE		1				F	Page 1 of 2 NNG			
NNG											Ę	8/20/2020			
	10	Jul-19			Aug-19			Sep-19		ir.	Oct-19				
Class	Gas Cost Recovery	Gas Purchases	(Over) Under	Gas Cost Recovery	Gas Purchases	(Over) Under	Gas Cost Recovery	Gas Purchases	(Over) Under	Gas Cost Recovery	Gas Purchases	(Over) Under			
Class	Recovery	Fulcilases	Officer	Recovery	Fulcilases	Officer	Recovery	Fulcilases	Orider	Recovery	Fulcilases	Officer			
GS-Dem	\$519,797		\$95,612	\$486,615		\$130,907	\$472,474		\$152,608	\$1,041,838		(\$387,684)			
GS-Comm	\$1,629,218	\$2,315,798	\$686,580	\$1,531,810	\$2,290,129	\$758,318	\$1,442,313	\$2,247,436	\$805,123	\$3,232,825	\$5,326,802	\$2,093,978			
GS-TOTAL	\$2,149,016	\$2,931,207	\$782,191	\$2,018,425	\$2,907,651	\$889,226	\$1,914,787	\$2,872,518	\$957,731	\$4,274,663	\$5,980,957	\$1,706,294			
Interruptible	\$275,750	\$391,930	\$116,179	\$263,704	\$394,250	\$130,546	\$263,058	\$409,901	\$146,843	\$378,058	\$622,935	\$244,877			
Firm/Interruptible															
Comm	\$1,012	\$1,465	\$453	\$738	\$1,118	\$380	\$876	\$1,385	\$509	\$1,485	\$2,468	\$983			
Firm/Interruptible															
Dem	\$2,706	\$2,706	\$0	\$2,706	\$2,706	\$0	\$2,706	\$2,706	\$0	\$2,706	\$2,706	\$0			
TOTAL-Dem	\$522,503	\$618,114	\$95,612	\$489,321	\$620,228	\$130,907	\$475,180	\$627,788	\$152,608	\$1,044,544	\$656,860	(\$387,684)			
TOTAL-Com NNG TOTAL	\$1,905,981 \$2.428.484	\$2,709,193 \$3.327.307	\$803,212 \$898.823	\$1,796,252 \$2.285.572	\$2,685,496 \$3.305.724	\$889,244 \$1.020.152	\$1,706,247 \$2,181,427	\$2,658,722 \$3,286,510	\$952,475 \$1,105,083	\$3,612,368 \$4,656,912	\$5,952,205 \$6,609,065	\$2,339,837 \$1,952,154			
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		Nov-19			Dec-19			Jan-20			Feb-20				
	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)			
Class	Recovery	Purchases	Under	Recovery	Purchases	Under	Recovery	Purchases	Under	Recovery	Purchases	Under			
GS-Dem	\$2,132,803	\$ 2,936,124	\$803,322	\$3,479,348	\$ 2,964,603	(\$514,745)	\$7,059,787	\$ 4,656,677	(\$2,403,110)	\$6,054,683	\$ 4,625,936	(\$1,428,748)			
GS-Comm	\$8,498,433	\$10,058,569	\$1,560,136	\$14,069,870	\$10,637,671	(\$3,432,199)	\$17,239,380	\$11,728,085	(\$5,511,295)	\$13,621,388	\$9,651,898	(\$3,969,490)			
GS-TOTAL	\$10,631,236	\$12,994,693	\$2,363,458	\$17,549,218	\$13,602,274	(\$3,946,944)	\$24,299,167	\$16,384,761	(\$7,914,405)	\$19,676,071	\$14,277,834	(\$5,398,237)			
Interruptible	\$1,359,707	\$1,609,321	\$249,614	\$2,461,028	\$1,860,686	(\$600,342)	\$1,315,480	\$894,931	(\$420,549)	\$1,073,253	\$686,392	(\$386,861)			
Firm/Interruptible															
Comm	\$1,300	\$1,543	\$243	\$1,527	\$1,157	(\$370)	\$10,005	\$6,822	(\$3,183)	\$7,138	\$4,576	(\$2,562)			
Firm/Interruptible															
Dem	\$2,630	\$2,630	\$0	\$2,630	\$2,630	\$0	\$4,273	\$4,273	\$0	\$4,273	\$4,273	\$0			
TOTAL-Dem	\$2,135,432	\$2,938,754	\$803,322	\$3,481,978	\$2,967,233	(\$514,745)	\$7,064,059	\$4,660,949	(\$2,403,110)	\$6,058,956	\$4,630,208	(\$1,428,748)			
TOTAL-Com	\$9,859,440	\$11,669,433	\$1,809,993	\$16,532,425	\$12,499,513	(\$4,032,912)	\$18,564,865	\$12,629,838	(\$5,935,026)	\$14,701,779	\$10,342,867	(\$4,358,913)			
NNG TOTAL	\$11,994,872	\$14,608,187	\$2,613,315	\$20,014,403	\$15,466,746	(\$4,547,657)	\$25,628,924	\$17,290,788	(\$8,338,137)	\$20,760,736	\$14,973,075	(\$5,787,660)			
ſ		Mar-20			Apr-20			May-20			Jun-20			Annual	
	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)	Gas Cost	Gas	(Over)
Class	Recovery	Purchases	Under	Recovery	Purchases	Under	Recovery	Purchases	Under	Recovery	Purchases	Under	Recovery	Purchases	Under
GS-Dem	\$5,289,726	\$ 4,620,146	(\$669,580)	\$3,619,397	\$ 883,783	(\$2,735,614)	\$2,051,877	\$ 430,080	(\$1,621,797)	\$780,922	\$ 639,385	(\$141,537)	\$32,989,268	\$24,268,901	(\$8,720,366)
GS-Comm	\$11,418,640	\$6,861,935	(\$4,556,705)	\$7,167,508	\$4,812,333	(\$2,355,176)	\$4,452,171	\$3,482,623	(\$969,547)	\$2,041,358	\$3,188,847	\$1,147,489	\$86,344,913	\$72,602,125	(\$13,742,789)
GS-TOTAL	\$16,708,366	\$11,482,080	(\$5,226,286)	\$10,786,905	\$5,696,115	(\$5,090,789)	\$6,504,048	\$3,912,703	(\$2,591,345)	\$2,822,279	\$3,828,232	\$1,005,953	\$119,334,181	\$96,871,026	(\$22,463,155)
Interruptible	\$1,032,596	\$557,776	(\$474,820)	\$668,364	\$399,724	(\$268,640)	\$551,839	\$388,213	(\$163,626)	\$334,049	\$464,835	\$130,787	\$9,976,885	\$8,680,895	(\$1,295,991)
Firm/Interruptible						l									
Comm	\$6,853	\$3,713	(\$3,140)	\$3,449	\$2,067	(\$1,381)	\$2,544	\$1,796	(\$748)	\$1,082	\$1,520	\$438	\$38,010	\$29,631	(\$8,379)
Firm/Interruptible						l									
Firm/Interruptible Dem	\$4,273	\$4,273	\$0	\$4,273	\$4,273	\$0	\$4,273	\$4,273	\$0	\$3,238	\$3,238	\$0	\$40,683	\$40,683	\$0
TOTAL-Dem	\$5,293,999	\$4,624,418	(\$669,580)	\$3,623,669	\$888,056	(\$2,735,614)	\$2,056,150	\$434,353	(\$1,621,797)	\$784,159	\$642,623	(\$141,537)	\$33,029,950	\$24,309,584	(\$8,720,366)
TOTAL-Com	\$12,458,088	\$7,423,423	(\$5,034,665)	\$7,839,321	\$5,214,124	(\$2,625,197)	\$5,006,554	\$3,872,633	(\$1,133,921)	\$2,376,489	\$3,655,202	\$1,278,714	\$96,359,808	\$81,312,650	(\$15,047,159)
NNG TOTAL	\$17,752,087	\$12,047,842	(\$5,704,245)	\$11,462,990	\$6,102,179	(\$5,360,811)	\$7,062,704	\$4,306,985	(\$2,755,719)	\$3,160,648	\$4,297,825	\$1,137,177	\$129,389,759	\$105,622,234	(\$23,767,525)

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NNG

8/20/2020

12 MONTHS ENDED JUNE 2020

NNG

Annual

SUMMARY

ACA	Gas Cost	Gas	(Over)
Class	Recovery	Purchases	Under
(A)	(B)	(C)	(D) = (C) - (B)
			1
GS-Demand	\$32,989,268	\$24,268,901	(\$8,720,366)
GS-Commodity	\$86,344,913	\$72,602,125	
GS TOTAL	\$119,334,181	\$96,871,026	(\$22,463,155)
	4 ,	400,011,020	(4==, :00, :00)
Interruptible	\$9,976,885	\$8,680,895	(\$1,295,991)
Firm /In the man of the la			
Firm/Interruptible	#20.040	#20.024	(<u></u>
Commodity	\$38,010	\$29,631	(\$8,379)
Firm/Interruptible			
Demand	\$40,683	\$40,683	\$0
2 01110110	ψ.0,000	ψ.0,000	ų.

NNG TOTAL	\$129,389,759	\$105,622,234	(\$23,767,525)
TOTAL-Com	\$96,359,808	\$81,312,650	(\$15,047,159)
TOTAL-Dem	\$33,029,950	\$24,309,584	(\$8,720,366)

12 MONTHS ENDED JUNE 2020 RECOVERY BY TYPE, BY MONTH, BY CLASS

Schedule D.3

NNGD3R

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NNG																						NNGD3R 8/20/2020 12:57			
	Jul	-19	Au	ıg-19	Se	p-19	Oc	t-19	No	v-19	De	c-19	Jan	-20	Feb	b-20	Ma	ır-20	Ap	or-20	Ma	y-20	Jun	-20	Total
Recovery	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	factors	\$	Annual
F12-B (Max Rate) Winter-112495 (46,506/46,580)	\$0,1004	54.975	CO 4004	51.465	\$0,1004	49.970	\$0,1004	110.187	\$0.1006	232.459	\$0.1006	379,222	\$0.1780	838.208	\$0.1780	718.872	\$0.1780	628.049	CO 4700	429.731	\$0.1780	243.619	\$0.1292	88.829	3.825.58
F12-B (Max Rate) Willter-112495 (46,506/46,500) F12-B (Max Rate) Summer-112495 (46,506/46,580)	\$0.1004	42,764	\$0.1004 \$0.0781	40.034	\$0.1004	38,871	\$0.1004	85,713	\$0.1006	180,799	\$0.1006	294,947	\$0.1780	651,919	\$0.1780	559.105	\$0.1780	488,467	\$0.1780 \$0.1384	334,224	\$0.1780	189,476	\$0.1292	69,094	2,975,41
F12-V (Max Rate)-112495 (33,033/32.929)	\$0.0781	83,229	\$0.0781		\$0.0781	75,652	\$0.0781	166,817	\$0.0782	350,573	\$0.0762	571,907	\$0.1384	1.264.094	\$0.1384	1.084.124	\$0.1384	947,155	\$0.1384	648,073	\$0.1384	367,400	\$0.1003	133,968	5,770,90
F5 (Max Rate)-112495 (36,275)	\$0.1320	63,517	\$0.1320		\$0.1320	57.734	\$0.1320	127,308	\$0.1317	268,171	\$0.1317	437,480	\$0.2054	967,048	\$0.2054	829.369	\$0.2054	724.585	\$0.2054	495,784	\$0.2054	281,066	\$0.1491	102,473	4,413,99
FF12B (Discount-Winter)-112495 (5,200)	\$0.0197	10,787	\$0.0197	10,098	\$0.0197	9,805	\$0.0197	21,620	\$0.0197	45,627	\$0.0197	74,434	\$0.0197	92,956	\$0.0197	79,722	\$0.2034	69,650	\$0.0197	47,657	\$0.2034	27,017	\$0.0197	13,569	502,94
11 125 (Discount-Waller)-112433 (3,200)	ψ0.0137	10,707	\$0.0137	10,030	ψ0.0137	3,003	ψ0.0137	21,020	ψ0.0137	40,021	ψ0.0137	74,454	ψ0.0131	32,330	ψ0.0137	13,122	\$0.0137	03,030	ψ0.0137	47,037	\$0.0137	21,011	\$0.0137	13,303	302,34
FFX12 (Max Rate)-112486 (16,261/10,822)	\$0.0793	43,421	\$0.0793	40,650	\$0.0793	39,468	\$0.0793	87,030	\$0.0528	121,997	\$0.0528	199,019	\$0.0934	439,965	\$0.0934	377,327	\$0.0934	329,655	\$0.0934	225,560	\$0.0934	127,873	\$0.0678	46,624	2,078,59
FX Apr (Max Rate-112486 (2,000))	\$0.0005	274	\$0.0005	256	\$0.0005	249	\$0.0005	549	\$0.0005	1,109	\$0.0005	1,810	\$0.0009	4,003	\$0.0009	3,433	\$0.0009	2,999	\$0.0009	2,052	\$0.0009	1,163	\$0.0006	426	18,3
FX Oct (Max Rate)-112486 (2,000)	\$0.0005	274	\$0.0005	256	\$0.0005	249	\$0.0005	549	\$0.0005	1,109	\$0.0005	1,810	\$0.0009	4,003	\$0.0009	3,433	\$0.0009	2,999	\$0.0009	2,052	\$0.0009	1,163	\$0.0006	426	18,3
FX5 (Max Rate)-112486 (77,688)	\$0.2485	136,068	\$0.2485		\$0.2485	123,680	\$0.2485	272,724	\$0.2485	574,329	\$0.2485	936,932	\$0.4398	2,071,034	\$0.4398	1,776,180		1,551,775	\$0.4398	1,061,773	\$0.4398	601,931	\$0.3193	219,457	9,453,26
FX5 (Discount)-112486 (1,800)	\$0.0038	2,081	\$0.0038	1,948	\$0.0038	1,891	\$0.0038	4,170	\$0.0038	8,807	\$0.0038	14,366	\$0.0038	17,941	\$0.0038	15,387	\$0.0038	13,443	\$0.0038	9,198	\$0.0038	5,215	\$0.0038	2,619	97,06
FFX12 (Discount)-111866 (1,283)	\$0.0032	1,752	\$0.0032	1,640	\$0.0032	1,593	\$0.0032	3,512	\$0.0032	7,304	\$0.0032	11,916	\$0.0032	14,881	\$0.0032	12,762	\$0.0032	11,150	\$0.0032	7,629	\$0.0032	4,325	\$0.0032	2,172	80,63
TFX12 (Discount)-111866 (8,271)	\$0.0229	12,539	\$0.0229	11,739	\$0.0229	11,398	\$0.0229	25,132	\$0.0229	53,001	\$0.0229	86,463	\$0.0229	107,978	\$0.0229	92,605	\$0.0229	80,905	\$0.0229	55,358	\$0.0229	31,383	\$0.0229	15,761	584,26
TFX12 (Discount)-111866 (11,921)	\$0.0459	25,133	\$0.0459	23,529	\$0.0459	22,845	\$0.0459	50,374	\$0.0459	106,117	\$0.0459	173,114	\$0.0459	216,192	\$0.0459	185,413	\$0.0459	161,987	\$0.0459	110,837	\$0.0459	62,835	\$0.0459	31,557	1,169,93
TFX5 (Discount)-111866 (379)	\$0.0004	219	\$0.0004	205	\$0.0004	199	\$0.0004	439	\$0.0004	901	\$0.0004	1,471	\$0.0004	1,837	\$0.0004	1,575	\$0.0004	1,376	\$0.0004	942	\$0.0004	534	\$0.0004	268	9,96
TFX5 (Discount)-111866 (2,445)	\$0.0028	1,533	\$0.0028	1,435	\$0.0028	1,394	\$0.0028	3,073	\$0.0028	6,518	\$0.0028	10,633	\$0.0028	13,279	\$0.0028	11,389	\$0.0028	9,950	\$0.0028	6,808	\$0.0028	3,860	\$0.0028	1,938	71,81
FX5 (Discount)-111866 (22,189)	\$0.0709	38,822	\$0.0709	36,344	\$0.0709	35,288	\$0.0709	77,811	\$0.0709	163,879	\$0.0709	267,345	\$0.0709	333,871	\$0.0709	286,337	\$0.0709	250,161	\$0.0709	171,168	\$0.0709	97,037	\$0.0709	48,735	1,806,79
/indom-118657 (2.500)	\$0.0000	0	\$0.0000	0	\$0.0000	0	\$0,0000	0	\$0.0000	0	\$0.0000	0	\$0.0000	0	\$0.0000	0	\$0.0000	0	\$0.0000	0	\$0,0000	0	\$0.0000	0	
Iorthwestern Energy (1,035)	\$0.0044	2,409	\$0.0044	2,255	\$0.0044	2,190	\$0.0044	4,829	\$0.0044	10,101	\$0.0044	16,478	\$0.0044	20,578	\$0.0044	17,649	\$0.0044	15,419	\$0.0044	10,550	\$0.0044	5,981	\$0.0044	3,004	111,4
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otal Demand	\$0.9493	519,797	\$0.9493		\$0.9493			,. ,	\$0.9227	2,132,803	\$0.9227	3,479,348	\$1.4992	7,059,787	\$1.4992		\$1.4992	5,289,726	\$1.4992	3,619,397	\$1.4992	2,051,877	\$1.1361	780,922	32,989,26
COMM COST OF GAS	\$2.9219	1,629,218	\$2.9482	1,531,810	\$2.8569	1,442,313	\$2.9213	3,232,825	\$3.6657	8,498,433	\$3.7230	14,069,870	\$3.6524	17,239,380	\$3.3638	13,621,388	\$3.2253	11,418,640	\$2.9611	7,167,508	\$3.2405	4,452,171	\$2.9394	2,041,358	86,344,91
DDVC																									
Total Commodity	\$2.9219	1,629,218	\$2.9482		\$2.8569		\$2.9213	3,232,825	\$3.6657	8,498,433	\$3.7230	14,069,870		17,239,380	\$3.3638	13,621,388 19,676,071	\$3.2253	11,418,640	\$2.9611	7,167,508	\$3.2405	4,452,171	\$2.9394	2,041,358	86,344,91
Total Recovery		2,149,016		2,018,425		1,914,787		4,274,663		10,631,236		17,549,218		24,299,167		19,676,071		16,708,366		10,786,905		6,504,048		2,822,279	119,334,18
Interruptible																									
COMM COST OF GAS	\$2.9219	275,750	\$2.9482	263,704	\$2.8569	263,058	\$2.9213	378,058	\$3.6657	1,359,707	\$3.7230	2,461,028	\$3.6524	1,315,480	\$3.7279	1,073,253	\$3.5894	1,032,596	\$3.3252	668,364	\$3.6046	551,839	\$3.3035	334,049	9,976,88
nterruptible - Commodity	\$2.9219	275,750	\$2.9482	263,704	\$2.8569	263,058	\$2.9213	378,058	\$3.6657	1,359,707	\$3.7230	2,461,028	\$3.6524	1,315,480	\$3.7279	1,073,253	\$3.5894	1,032,596	\$3.3252	668,364	\$3.6046	551,839	\$3.3035	334,049	9,976,88
Firm/Interruptible - COMM	1																								
COMM COST OF GAS	\$2.9219	1,012	\$2.9482	738	\$2.8569	876	\$2.9213	1,485	\$3.6657	1,300	\$3.7230	1,527	\$3.6524	10,005	\$3.7279	7,138	\$3.5894	6,853	\$3.3252	3,449	\$3.6046	2,544	\$3.3035	1,082	38,01
Firm/Interruptible - Comm	\$2.9219	1,012	\$2.9482	738	\$2.8569	876	\$2.9213	1,485	\$3.6657	1,300	\$3.7230	1,527	\$3.6524	10,005	\$3.7279	7,138	\$3.5894	6,853	\$3.3252	3,449	\$3.6046	2,544	\$3.3035	1,082	38,01
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12 MONTHS ENDED JUNE 2020

RECOVERY BY TYPE, BY MONTH, BY CLASS

Schedule D.3 NNG

NNG 8/20/2020 12:57 Mar-20 Total Jul-19 Aug-19 Sep-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Apr-20 May-20 Jun-20 Recovery factors factors factors \$ factors \$ factors factors factors factors factors Annual factors factors factors Firm/Interruptible - Dem TF12-B (Max Rate) Winter-112495 (46,506/46,580) \$3.0120 286 \$3.0171 \$3.017 507 507 \$5.3400 \$5.3400 \$3,8769 4,623 TF12-B (Max Rate) Summer-112495 (46,506/46,580) \$2,3430 223 433 \$2,3430 223 \$2,3430 223 \$2,3430 223 433 \$2.3466 223 \$2,3466 223 \$4.1532 395 \$4,1532 395 \$4,1532 395 765 \$4,1532 395 \$4.1532 395 \$3,0156 286 3,595 6,978 TF12-V (Max Rate)-112495 (33.033/32.929) \$4.5600 \$4.5600 433 \$4.5501 432 \$4.5501 \$8,0532 \$8,0532 765 765 \$5,8470 555 \$4.5600 433 \$4.5600 432 \$8,0532 765 \$8,0532 765 \$8,0532 TF5 (Max Rate)-112495 (36,275) 585 331 \$3.4800 331 \$3,4800 331 331 331 331 585 \$6.1608 585 585 585 \$4.4724 425 5,335 TF12B (Discount-Winter)-112495 (5,200) \$0.5910 56 \$0.5910 56 \$0.5910 56 \$0.5910 56 \$0.5922 56 \$0.5922 56 \$0.5922 56 \$0.5922 56 \$0.5922 56 \$0.5922 56 \$0.5922 56 \$0.5922 675 TFX12 (Max Rate)-112486 (16,261/10,822) \$2.3790 \$2.3790 226 \$2.3790 226 \$2.3790 226 \$1.5834 \$1.5834 150 \$2.8029 \$2.8029 266 \$2.8029 \$2.8029 \$2.8029 266 \$2.0349 193 2,730 226 150 266 266 266 TFX Apr (Max Rate-112486 (2.000)) \$0.0150 \$0.0150 \$0.0150 \$0.0150 \$0.0144 \$0.0144 \$0.0255 \$0.0255 \$0.0255 \$0.0255 \$0.0255 \$0.0186 22 TFX Oct (Max Rate)-112486 (2,000) \$0.0150 \$0.0150 \$0.0144 \$0.0144 \$0.0255 \$0.0255 \$0.0186 \$0.0150 \$0.0150 \$0.0255 TFX5 (Max Rate)-112486 (77,688) 708 708 708 708 \$7.4543 708 \$7.4543 708 1,253 \$13.1940 1,253 1,253 13.1940 1,253 1,253 11,426 TFX5 (Discount)-112486 (1,800) \$0.1140 \$0.1140 11 \$0.1140 11 \$0.1140 \$0.1143 11 \$0.1143 \$0.1143 11 \$0.1143 11 \$0.1143 \$0.1143 11 \$0.1143 \$0.1143 130 \$0.0960 \$0.0960 \$0.0948 \$0.0948 109 TFX12 (Discount)-111866 (1.283) \$0.0960 \$0.0948 \$0.0948 \$0.0948 \$0.0948 TFX12 (Discount)-111866 (8,271) \$0.6870 \$0.6870 \$0.6870 \$0.6870 \$0.6879 \$0.6879 \$0.6879 \$0.6879 \$0.6879 \$0.6879 \$0.6879 \$0.6879 784 TFX12 (Discount)-111866 (11,921) \$1.3770 131 \$1,3770 131 \$1.3770 131 \$1,3770 131 \$1.3773 131 \$1.3773 131 \$1.3773 131 \$1.3773 131 \$1.3773 131 \$1,3773 131 \$1,3773 131 \$1.3773 131 1,570 TFX5 (Discount)-111866 (379) \$0.0120 \$0.0120 \$0.0120 \$0.0120 \$0.0117 \$0.0117 \$0.0117 \$0.0117 0.0117 \$0.0117 \$0.0117 \$0.0117 TFX5 (Discount)-111866 (2,445) \$0.0846 \$0.0840 \$0.0840 \$0.0840 TFX5 (Discount)-111866 (22,189) \$2.1270 202 \$2,1270 202 \$2.1270 202 \$2.1270 202 202 \$2.1270 202 \$2.1270 202 \$2,1270 202 \$2.1270 202 \$2.1270 202 \$2,1270 202 \$2.1270 202 2,425 Windom-118657 (2,500) \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0,0000 \$0,0000 \$0.0000 \$0,0000 \$0,0000 Northwestern Energy (1,035) \$0.1320 13 \$0.1320 13 \$0.1320 13 \$0.1320 13 \$0.1311 12 \$0.1311 12 \$0.1311 12 \$0.1311 12 \$0.1311 12 \$0.1311 12 \$0.1311 12 \$0.1311 12 150 Demand Recovery \$28,4790 2,706 \$28,4790 2,706 \$28.4790 2,706 \$28,4790 2,706 \$27.6818 2,630 \$27.6818 2,630 \$44.9760 4,273 \$44,9760 4,273 \$44.9760 4,273 \$44.9760 4,273 \$44.9760 4,273 \$34.0830 3,238 40,683 TOTAL TF12-B (Max Rate) Winter-112495 (46,506/46,580) 55,261 51,752 50,256 110,473 232,746 379,509 838,716 719,380 628,556 430,238 244,127 89,197 3,830,211 TF12-B (Max Rate) Summer 42.987 40.257 39,094 85.936 181,022 295.170 652.313 559.500 488.862 334.619 189.870 69.381 2.979.01 TF12-V (Max Rate)-112495 (33.033/32.929) 83,662 78.349 76.085 167.250 351.005 572.339 1.264.859 1.084.889 947.920 648.838 368,165 134.524 5.777.885 TF5 (Max Rate)-112495 (36,275) 268,501 725,171 58,065 437.811 496,369 102,898 TF12B (Discount-Winter)-112495 (5,200) 10,843 10,154 9,861 21,677 45,684 74,490 93,013 79,778 69,706 47.713 27,073 13,625 503,618 TFX12 (Max Rate)-112486 (16,261/10,822) 43,647 40,876 39,694 87,256 122,147 199,170 440,232 377,594 329,922 225,827 128,139 46,818 2,081,320 TFX Apr (Max Rate-112486 (2,000)) 275 258 250 550 1 111 1 811 4 005 3 435 3.002 2.055 1 166 428 18 346 TFX Oct (Max Rate)-112486 (2,000) 1.111 4.005 3.435 2.055 1.166 18.346 258 250 550 1.811 3.002 428 TFX5 (Max Rate)-112486 (77,688) 136,776 128,090 124,389 273,432 575,038 937,641 2,072,287 1,777,434 1,553,029 1,063,027 603,185 220,367 9,464,694 TFX5 (Discount)-112486 (1.800) 2.092 1.959 1.902 4.181 8.817 14.377 17.952 15.398 13,454 9 209 5.225 2.630 97,197 TFX12 (Discount)-111866 (1.283) 1.761 1.649 1.602 3.521 7.313 11.925 14.890 12.771 11.159 7.638 4.334 2.181 80.743 TFX12 (Discount)-111866 (8,271) 12,604 11,804 11,463 25,198 53,066 86,528 108,044 80,971 55,423 31,448 15,827 585,047 TFX12 (Discount)-111866 (11,921) 25,264 23.659 22.976 50.505 106,248 173,245 216.323 185,543 162,118 110.968 62.965 31,688 1.171.502 TFX5 (Discount)-111866 (379) 220 206 200 440 903 1.472 1.838 1.576 1.377 943 535 269 9.979 TFX5 (Discount)-111866 (2.445) 1.541 1.443 1.402 3.081 6.526 10.641 13.288 11.397 9.958 6.816 3.868 1.946 71.907 TFX5 (Discount)-111866 (22,189) 39,024 36,546 35,490 78,013 164,082 267,547 334,073 286,539 250,363 171,370 97,239 48,937 1,809,223 Windom-118657 (2,500) Northwestern Energy (1,035) 2,422 2.268 2,202 4,841 10,113 16,491 20,591 17,661 15,431 10,563 5,993 3,016 111,593 Demand Recovery 522,503 489,321 475,180 1,044,544 2,135,432 3,481,978 7,064,059 6,058,956 5,293,999 3,623,669 2,056,150 784,159 33,029,950 COMM COST OF GAS 1,905,981 1,796,252 1,706,247 3,612,368 9,859,440 16,532,425 18,564,865 14,701,779 12,458,088 7,839,321 5,006,554 2,376,489 96,359,808 Commodity Recovery 1.905.98 1.796.252 1.706.247 3.612.368 9.859.440 16.532.425 18.564.865 14.701.779 12.458.088 7.839.321 5.006.554 2.376.489 96.359.808

2.428.484

Total Recovery \$

2.285.572

2.181.427

4.656.912

11,994,872

20.014.403

25.628.924

20.760.736

17.752.087

11.462.990

7.062.704

3.160.648 129.389.759

^{*}Per Commission Decision in Docket No. G011/GR-15-748 the calculation of the rate charged to DFC was changed beginning Mar. 1, 2017.

MINNESOTA ENERGY RESOURCES - NNG 12 MONTHS ENDED JUNE 2020 COSTS BY TYPE, BY MONTH, BY CLASS NNGD3C

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	Jul-1	9	Aug-	19	Sep-	-19	Oct	-19	Nov	/-19	Dec	:-19	Jan	-20	Fe	b-20	Ma	r-20	Apr-	20	May-	20	Jun	-20	Total
Cost	factors	\$	factors	\$	factors	\$	factors	\$		\$	factors	\$	factors	\$	factors	\$	Annual								
		0		0		0		0				0		0		0				0		0			
GS TF12-B (Max Rate) Winter-112495 (46.506/46.580)	2,273,700	657,508	2,250,135	657,516	2,214,967	657,551	5,311,961	668,996	9,423,271	3,571,423	10,043,870	3,558,404	11,140,327	5,244,434	9,033,432	5,244,402	6,237,685	5,244,396	4,726,982	969,133	3,362,359	550,344	3,095,760	732,473	3,188,207
TF12-B (Max Rate) Winter-112495 (46,506/46,580) TF12-B (Max Rate) Summer	10.58% 8.23%	69,539 54.094	10.58% 8.23%	69,540 54,095	10.58% 8.23%	69,544 54.097	10.58% 8.23%	70,754 55,039	10.90% 8.48%	389,258 302,752	10.90% 8.48%	387,839 301.648	11.87% 9.23%	622,672 484,285	11.87% 9.23%	622,668 484,282	11.87% 9.23%	622,667 484,281	11.87% 9.23%	115,065 89.492	11.87% 9.23%	65,342 50.820	11.37% 8.85%	83,318 64.808	2,479,693
TF12-V (Max Rate)-112495 (33.033/32.929)	16.01%	105,279	16.01%	105,280	16.01%	105,286	16.01%	107,118	16.44%	587.041	16.44%	584,901	17.91%	939,045	17.91%	939,039	17.91%	939,038	17.91%	173,529	17.91%	98,542	17.16%	125,657	4.809.755
TF5 (Max Rate)-112495 (36,275)	12.22%	80,344	12.22%	80,345	12.22%	80,350	12.22%	81,748	12.57%	449,057	12.57%	447,420	13.70%	718,381	13.70%	718,377	13.70%	718,376	13.70%	132,752	13.70%	75,386	13.12%	96,116	3,678,652
TF12B (Discount-Winter)-112495 (5,200)	2.08%	13,645	2.08%	13,645	2.08%	13,646	2.08%	13,883	2.14%	76,404	2.14%	76,125	1.32%	69,054	1.32%	69,053	1.32%	69,053	1.32%	12,761	1.32%	7,246	1.74%	12,727	447,241
TFX12 (Max Rate)-112486 (16,261/10,822)	8.35%	54.925	8.35%	54,926	8.35%	54.929	8.35%	55,885	5.72%	204,286	5.72%	203.541	6.23%	326,833	6.23%	326.831	6.23%	326.830	6.23%	60,396	6.23%	34,297	5.97%	43.732	1.747.410
TFX Apr (Max Rate-112486 (2,000))	0.05%	346	0.05%	346	0.05%	346	0.05%	352	0.05%	1,858	0.05%	1,851	0.06%	2,973	0.06%	2,973	0.06%	2,973	0.06%	549	0.06%	312	0.05%	400	15,282
TFX Oct (Max Rate)-112486 (2,000)	0.05%	346	0.05%	346	0.05%	346	0.05%	352	0.05%	1,858	0.05%	1,851	0.06%	2,973	0.06%	2,973	0.06%	2,973	0.06%	549	0.06%	312	0.05%	400	15,282
TFX5 (Max Rate)-112486 (77,688)	26.18%	172,117	26.18%	172,119	26.18%	172,128	26.18%	175,124	26.93%	961,727	26.93%	958,221	29.34%	1,538,489	29.34%	1,538,479	29.34%	1,538,477	29.34%	284,302	29.34%	161,447	28.10%	205,842	7,878,471
TFX5 (Discount)-112486 (1,800)	0.40%	2,632	0.40%	2,632	0.40%	2,632	0.40%	2,678	0.41%	14,747	0.41%	14,693	0.25%	13,328	0.25%	13,328	0.25%	13,328	0.25%	2,463	0.25%	1,399	0.34%	2,456	86,315
TFX12 (Discount)-111866 (1,283) TFX12 (Discount)-111866 (8,271)	0.34% 2.41%	2,216 15,861	0.34% 2.41%	2,216 15,861	0.34% 2.41%	2,217 15,862	0.34% 2.41%	2,255 16,138	0.34% 2.49%	12,231 88,751	0.34% 2.49%	12,186 88.427	0.21% 1.53%	11,054 80,213	0.21% 1.53%	11,054 80,212	0.21% 1.53%	11,054 80,212	0.21% 1.53%	2,043 14,823	0.21% 1.53%	1,160 8.417	0.28% 2.02%	2,037 14,784	71,724 519,562
TFX12 (Discount)-111866 (11,921)	4.84%	31,791	4.84%	31.792	4.84%	31,794	4.84%	32,347	4.98%	177,695	4.98%	177.048	3.06%	160,600	3.06%	160,599	3.06%	160,599	3.06%	29,678	3.06%	16,853	4.04%	29,599	1,040,396
TFX5 (Discount)-111866 (379)	0.04%	277	0.04%	277	0.04%	277	0.04%	282	0.04%	1,510	0.04%	1,504	0.03%	1,364	0.03%	1,364	0.03%	1,364	0.03%	252	0.03%	143	0.03%	251	8,866
TFX5 (Discount)-111866 (2,445)	0.29%	1,939	0.29%	1,939	0.29%	1,939	0.29%	1,973	0.31%	10,915	0.31%	10,875	0.19%	9,865	0.19%	9,865	0.19%	9,865	0.19%	1,823	0.19%	1,035	0.25%	1,818	63,852
TFX5 (Discount)-111866 (22,189)	7.47%	49,107	7.47%	49,108	7.47%	49,110	7.47%	49,965	7.68%	274,420	7.68%	273,419	4.73%	248,019	4.73%	248,018	4.73%	248,017	4.73%	45,832	4.73%	26,027	6.24%	45,711	1,606,753
Windom-118657 (2.500)	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0
Northwestern Energy (1,035)	0.46%	3,048	0.46%	3,048	0.46%	3,048	0.46%	3,101	0.47%	16,914	0.47%	16,853	0.29%	15,287	0.29%	15,287	0.29%	15,287	0.29%	2,825	0.29%	1,604	0.38%	2,817	99,117
Total Demand	100%	615.409	100%	617,523	100%	625.082	100%	654,155	100%	2,936,124	100%	2,964,603	100%	4,656,677	100%	4,625,936	100%	4,620,146	100%	883,783	100%	430,080	100%	639.385	24,268,901
COMM COST OF GAS	100%	2.315.798	100%	2,290,129	100%	2.247.436	100%	5,326,420	100%	10,058,569	100%	10.637.671	100%	11,731,435	100%	9.651.898	100%	6.861.935	100 %	4.811.165	100%	3.482.623	100%	3.188.847	72,603,925
COMMIT COST OF GAS		2,313,780		2,230,123		2,247,430		3,320,420		10,030,303		10,037,071		11,751,455		3,031,030		0,001,000		4,011,103		3,402,023		3,100,047	72,003,823
Capacity Release		(42,098)		(39,994)		(32,469)		(14,842)		(635,298)		(593,801)		(587,758)		(618,466)		(624,250)		(85,350)		(120,264)		(93,088)	(3,487,677)
DDVC's		0		0		0		382		0		0		(3,350)		0		0		1,168		0		0	(1,800)
Total Commodity		2,315,798		2,290,129		2,247,436		5,326,802		10,058,569		10,637,671		11,728,085		9,651,898		6,861,935		4,812,333		3,482,623		3,188,847	72,602,125
Total GS Costs		2.931.207		2.907.651		2.872.518		5.980.957		12.994.693		13.602.274		16.384.761		14.277.834		11.482.080		5.696.115		3.912.703		3.828.232	96.871.026
late-annual late																									
Interruptible COMM COST OF GAS		391.930		394,250		409.901		622.935		1,609,321		1.860.686		894.931		686.392		557,776		399.724		388,213		464.835	0.000.005
PRODUCER DEMAND		391,930		394,250		409,901		622,935		1,609,321		1,860,686		894,931		686,392		557,776		399,724		388,213		464,835	8,680,895
Capacity Release																									0
DDVCs																									ō
STORAGE																									0
Interruptible - Commodity		391.930		394,250		409,901		622,935		1,609,321		1.860.686		894.931		686.392		557,776		399.724		388,213		464,835	8.680.895
po commonly		001,000		00-1,200	_	400,001		022,000		1,000,021		1,000,000		004,001	_	000,002		55.,.76		000,124		000,270		404,000	<u> </u>
Firm/Interruptible - COMM	Ī																								
COMM COST OF GAS		1,465		1,118		1,385		2,468		1,543		1,157		6,822		4,576		3,713		2,067		1,796		1,520	29,631
PRODUCER DEMAND																		J							0
Capacity Release						l		l																	_
DDVCs						l		l																	0
STORAGE																		J							ő
																									ō
			_		_		_				_		_						_		_		_		. 0
Firm/Interruptible - Comm	0	1,465	0	1,118	0	1,385	0	2,468	0	1,543	0	1,157	0	6,822	0	4,576	0	3,713	0	2,067	0	1,796	0	1,520	29,631

 12 MONTHS ENDED JUNE 2020
 NNG

 COSTS BY TYPE, BY MONTH, BY CLASS
 NNG03C
 8/20/2020 12-57

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3,872,633 4,306,985 3,655,202 4,297,825 81,312,650 105,622,234

Page 4 of 6 Aug-19 factors Sep-19 factors Jul-19 Oct-19 Nov-19 Dec-19 Jan-20 Feb-20 Mar-20 Apr-20 May-20 Jun-20 Total factors Annual Firm/Interruptible - Dem
TF12-B (Max Rate) Winter-112495 (46.506/46.580) \$5,3400 \$5,3400 \$3.8769 \$3.0120 306 \$3.0120 305 \$3.0120 \$3,0120 293 \$3.0171 349 \$3.0171 344 571 \$5,3400 575 \$5,3400 576 \$5,3400 556 649 422 5.246 328 636 487 64 TF12-B (Max Rate) Summer-112495 (46,506/46,586 TF12-V (Max Rate)-112495 (33,033/32.929) \$2.3430 \$4.5600 238 463 353 \$2.3430 \$4.5600 237 461 \$2.3430 \$4.5600 \$2.3430 \$4.5600 \$2.3466 \$4.5501 \$2.3466 \$4.5501 \$4.1532 \$8.0532 444 862 659 \$4.1532 \$8.0532 \$4.1532 \$8.0532 \$4.1532 \$8.0532 \$4.1532 \$8.0532 \$3.0156 \$5.8470 4,081 7,919 6.055 839 642 352 664 749 TF5 (Max Rate)-112495 (36,275) \$3,4800 \$3,4800 \$3,4800 348 \$3,4800 338 \$3,4806 402 \$3,4806 397 \$6,1608 \$6,1608 \$6,1608 664 \$6,1608 \$6,1608 \$4,4724 TF12B (Discount-Winter)-112495 (5,200) \$0.5910 60 \$0.5910 60 \$0.5910 \$0.5910 57 \$0.5922 \$0.5022 \$0.1000 63 \$0.5922 64 \$0.1000 64 \$0.5922 \$0.1000 \$0.5922 761 TEX12 (May Rate)-112486 (16 261/10 822) \$2 3790 241 \$2 3790 241 \$2 3790 238 \$2 3790 231 \$1 5834 183 \$1 5834 181 \$2,8029 300 \$2.8020 302 \$2,8029 302 \$2,8029 202 \$2,8029 341 \$2.0349 221 3.073 3,073 25 25 12,968 TFX Apr (Max Rate)-112486 (2,000)) TFX Oct (Max Rate)-112486 (2,000) \$0.0150 \$0.0150 \$0.0150 \$0.0150 \$0.0144 \$0.0144 \$7.4543 3 3 1,412 \$0.0150 \$0.0150 \$0.0144 \$0.0255 \$0.0255 \$0.0255 \$0.0255 \$0.0255 \$0.0186 \$0.0150 \$7.4550 \$0.0150 2 861 \$0.0144 \$7.4543 2 850 \$0.0255 \$0.0255 \$0.0255 \$13.1940 \$0.0255 \$13.1940 \$0.0255 \$0.0186 1,042 757 12 10 724 11 9 1,421 1.423 1.374 1.604 TEX5 (Max Rate)-112486 (77 688) \$7,4550 \$7,4550 745 \$7,4550 \$13,1940 \$13,1940 \$13 1940 \$9.5781 12,968 147 122 885 1,772 15 109 2,736 TFX5 (Discount)-112486 (1,800) TFX12 (Discount)-111866 (1,283) \$0.1140 \$0.0960 \$0.1140 \$0.0960 \$0.1140 \$0.0960 \$0.1140 \$0.0960 \$0.1143 \$0.0948 \$0.1143 \$0.0948 \$0.1143 \$0.0948 12 10 74 147 \$0.1143 \$0.0948 \$0.1143 \$0.0948 \$0.1143 \$0.0948 \$0.1143 \$0.0948 \$0.1143 \$0.0948 12 10 75 150 TEX12 (Discount)-111866 (8.271) \$0.6870 70 140 \$0.6870 69 139 \$0.6870 69 138 \$0.6870 67 134 \$0.6879 79 159 \$0.6879 78 157 \$0.6879 \$0.6879 \$1.3773 \$0.0117 74 148 \$0.6879 74 149 \$0.6879 \$0.6879 84 167 \$0.6879 \$1.3773 \$0.0117 TEX12 (Discount)-111866 (11.921) \$1.3770 \$1.3770 \$1.3770 \$1.3773 \$1.3773 \$1.3773 \$0.0117 \$1.3773 \$1.3773 \$1.3773 TFX5 (Discount)-111866 (379) TFX5 (Discount)-111866 (2,445) 1 9 228 9 231 \$0.0840 \$0.0846 \$2.1270 \$0.0840 8 215 \$0.0840 \$0.0840 \$2.1270 8 207 \$0.0846 \$2.1270 \$0.0846 \$2.1270 \$0.0846 \$2.1270 9 229 \$0.0846 \$2.1270 9 229 \$0.0846 \$2.1270 \$0.0846 \$0.0846 \$2.1270 216 \$2,1270 213 243 \$2,1270 TFX5 (Discount)-111866 (22.189) \$2,1270 \$2,1270 246 222 259 Windom-118657 (2.500) \$0.0000 \$0.0000 \$0.0000 \$0,0000 \$0.0000 \$0,0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.1311 0 13 0 13 0 15 0 14 0 14 Northwestern Energy (1,035) \$0.1320 \$0.1320 \$0.1320 \$0.1320 \$0.1311 \$0.1311 \$0.1311 \$0.1311 \$0.1311 \$0.1311 \$0.1311 169 2.706 \$27.6818 2.630 \$27.6818 (569) 2.630 (527) 4.273 \$44.9760 (539) 4.273 (571) 4.273 (577) 40.683 Domand Costs \$28 4790 \$28,4790 \$28,4790 \$28.4790 \$44,9760 \$44,9760 \$44,9760 \$44,9760 \$34.0830 3.238 Capacity Release TOTA TF12-B (Max Rate) Winter-112495 (46,506/46,580) TF12-B (Max Rate) Summer TF12-V (Max Rate)-112495 (33,033/32.929) 69,845 54,332 69,845 54,332 105,741 69,845 54,332 71,047 55,267 389,607 303,023 388,183 301,916 585,420 623,243 484,729 623,243 484,729 623,243 484,729 115,621 89,925 65,992 51,325 99,521 83,740 65,136 3 193 453 105.741 105.74 107.561 587.567 939.906 939,906 939,906 174,368 126,293 4.817.674 96,602 12,791 TF5 (Max Rate)-112495 (36,275) 80,697 13,705 80.697 80.697 82.086 449,460 447.817 719.040 719.040 719,040 133,393 76,135 7,318 3.684.707 TF12B (Discount-Winter)-112495 (5,200) 13,705 13,705 13,941 76,472 76.193 69.117 69,117 12.822 448.00 TFX12 (Max Rate)-112486 (16.261/10.822) 55.166 55,166 348 55.166 56.116 204.469 203.722 327.133 327 132 327 132 60.688 34,638 315 43,953 402 1.750.483 TFX Apr (Max Rate-112486 (2,000)) TFX Oct (Max Rate)-112486 (2,000) 348 348 172,873 1,853 1,853 15,307 1,860 2,976 2,976 2,976 402 206,884 354 315 163,051 TEX5 (Max Rate)-112486 (77 688) 172.873 172 873 175 849 962 588 959.071 1.539.900 1.539.900 1.539.900 285 676 7 891 439 TFX5 (Discount)-112486 (1,800) TFX12 (Discount)-111866 (1,283) 2,644 2,226 2,644 2,226 2,689 2,264 14,760 12,242 14,706 13,340 11,064 13,340 11,064 13,340 1,413 2,469 2,048 86,462 71,846 2,644 2,475 15,931 31,931 278 1,948 15,931 31,931 278 1,948 16,205 32,481 283 1,981 8,501 17,021 145 1,045 14,858 29,749 253 1,827 TEX12 (Discount)-111866 (8 271) 15,931 31,931 88 830 88,506 80 286 80 286 80.286 14.894 520,446 88,506 177,205 1,505 10,885 80,286 160,748 1,366 9,874 80,286 160,748 1,366 9,874 14,894 29,821 253 1,832 1,042,167 8,881 63,960 TFX12 (Discount)-111866 (11,921) TFX5 (Discount)-111866 (379) 177,855 160,748 1,366 9,874 278 1,948 TFX5 (Discount)-111866 (2.445) 10.925 TFX5 (Discount)-111866 (22,189) 49,323 49,323 49,323 50,172 274,665 273,662 248,247 248,247 248,247 46,054 26,285 45,943 1,609,489 Windom-118657 (2.500) 3,061 3,061 3,061 3,114 16,929 16,867 15,301 15,301 15,301 2,839 1,620 2,832 99,286 Northwestern Energy (1,035) Capacity Release (42 283 (40 169 (32.610 (14 903) (635.867) (594 328) (588 297) (619 037) (624 827) (85.763 (121 459) (03 550 (3.493.102 Demand Costs
COMM COST OF GAS 618,114 620,228 656,860 2,938,754 2,967,233 4,660,949 4,630,208 4,624,418 888,056 5.212.956 642,623 24,309,584 627,788 434,353 5.951.823 3.872.633 2.709.193 2.685.496 2.658.722 11.669.433 12.499.513 12.633.189 10.342.867 7,423,423 3.655.202 81.314.450 PRODUCER DEMAND DDVCs STORAGE (3,350) 1,168 (1,800 All Credits

> 12,499,513 15,466,746

12,629,838

10,342,867

Commodity Costs

Total Costs

12 MONTHS ENDED JUNE 2020 RECOVERY VS COSTS BY TYPE, BY MONTH, BY CLASS

Schedule D.3 Page 5 of 6

NNG 8/20/2020

NNG

	Cost	Cost	(Over)	(Over)
	Recovery	Incurred	Under	Under
CS.	Recovery	illouricu	Onder	%
GS				70
TF12-B (Max Rate) Winter-112495 (46,506/46,580)	3,825,588	3,188,207	(637,381)	
TF12-B (Max Rate) Summer-112495 (46,506/46,580)	2,975,414	2,479,693	(495,722)	
TF12-V (Max Rate)-112495 (33,033/32.929)	5,770,907	4,809,755	(961,152)	
TF5 (Max Rate)-112495 (36,275)	4,413,996	3,678,652	(735,344)	
TF12B (Discount-Winter)-112495 (5,200)	502,943	447,241	(55,702)	
TFX12 (Max Rate)-112486 (16,261/10,822)	2,078,591	1,747,410	(331,180)	
TFX Apr (Max Rate-112486 (2,000))	18,323	15,282	(3,042)	
TFX Oct (Max Rate)-112486 (2,000)	18,323	15,282	(3,042)	
TFX5 (Max Rate)-112486 (77,688)	9,453,268	7,878,471	(1,574,797)	
TFX5 (Discount)-112486 (1,800)	97,067	86,315	(10,751)	
TFX12 (Discount)-111866 (1,283)	80,635	71,724	(8,911)	
TFX12 (Discount)-111866 (8,271)	584,263	519,562	(64,701)	
TFX12 (Discount)-111866 (11,921)	1,169,932	1,040,396	(129,537)	
	9,965			
TFX5 (Discount)-111866 (379)	,	8,866	(1,099)	
TFX5 (Discount)-111866 (2,445)	71,811	63,852	(7,959)	
TFX5 (Discount)-111866 (22,189)	1,806,798	1,606,753	(200,045)	
	_		_	
Windom-118657 (2,500)	0	0	0	
Northwestern Energy (1,035)	111,444	99,117	(12,326)	
		(2 (2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	(0.10-0-1)	
Capacity Release		(3,487,677)	(3,487,677)	
Total Demand	<u>32,989,268</u>	<u>24,268,901</u>	<u>(8,720,366)</u>	-35.93%
COMM COST OF GAS	86,344,913	72,603,925	(13,740,989)	
PRODUCER DEMAND	0	0	0	
DDVCs	0	(1,800)	(1,800)	
All Credits		0	0	
Total Commodity	86,344,913	72,602,125	(13,742,789)	-18.93%
Total GS	119,334,181	96,871,026	(22,463,155)	-23.19%
	<u> </u>	<u> </u>	-	
Interruptible				
COMM COST OF GAS	9,976,885	8,680,895	(1,295,991)	
PRODUCER DEMAND	0,570,000	0,000,000	0	
UPSTREAM PIPELINE	0	0	0	
DDVCs	0	0	0	
		_	_	4.4.000/
Interruptible - Commodity	<u>9,976,885</u>	<u>8,680,895</u>	<u>(1,295,991)</u>	-14.93%
Firm the committee Committee	ī			
Firm/Interruptible - Commodity				
COMM COST OF GAS	38,010	29,631	(8,379)	
PRODUCER DEMAND	0	0	0	
UPSTREAM PIPELINE	0	0	0	
DDVCs	0	<u>0</u>	<u>0</u>	
Firm/Interruptible - Commodity	<u>38,010</u>	<u>29,631</u>	<u>(8,379)</u>	-28.28%

12 MONTHS ENDED JUNE 2020

RECOVERY VS COSTS BY TYPE, BY MONTH, BY CLASS

Cost

Cost

(Over)

(Over)

Schedule D.3 Page 6 of 6 NNG

8/20/2020

Recovery Incurred Under Under Firm/Interruptible - Demand % 5,246 TF12-B (Max Rate) Winter-112495 (46,506/46,580) 624 4,623 TF12-B (Max Rate) Summer-112495 (46,506/46,580) 3,595 4,081 485 TF12-V (Max Rate)-112495 (33,033/32.929) 6,978 7,919 941 TF5 (Max Rate)-112495 (36,275) 5,335 6,055 720 TF12B (Discount-Winter)-112495 (5,200) 675 761 87 TFX12 (Max Rate)-112486 (16,261/10,822) 2,730 3,073 343 TFX Apr (Max Rate-112486 (2,000)) 22 25 3 TFX Oct (Max Rate)-112486 (2,000) 25 22 3 TFX5 (Max Rate)-112486 (77,688) 11,426 12,968 1,541 TFX5 (Discount)-112486 (1,800) 130 147 17 TFX12 (Discount)-111866 (1,283) 122 109 14 TFX12 (Discount)-111866 (8,271) 784 885 101 TFX12 (Discount)-111866 (11,921) 1,772 202 1,570 TFX5 (Discount)-111866 (379) 13 15 2 TFX5 (Discount)-111866 (2,445) 96 109 12 TFX5 (Discount)-111866 (22,189) 2,736 311 2,425 Windom-118657 (2,500) 0 0 0 Northwestern Energy (1,035) 150 169 19 Capacity Release (5,425)Firm/Interruptible - Demand 0 0% 40,683 40,683 TOTAL TF12-B (Max Rate) Winter-112495 (46,506/46,580) 3,830,211 3,193,453 (636,758)TF12-B (Max Rate) Summer 2,979,010 2,483,773 (495, 236)TF12-V (Max Rate)-112495 (33,033/32.929) 5,777,885 4,817,674 (960,211) TF5 (Max Rate)-112495 (36,275) 4,419,331 3,684,707 (734,624)TF12B (Discount-Winter)-112495 (5,200) 448,003 503,618 (55,615)TFX12 (Max Rate)-112486 (16,261/10,822) 2,081,320 1,750,483 (330,837)TFX Apr (Max Rate-112486 (2,000)) 18,346 15,307 (3,039)TFX Oct (Max Rate)-112486 (2,000) 18,346 15,307 (3.039)TFX5 (Max Rate)-112486 (77,688) 9,464,694 7,891,439 (1,573,255)TFX5 (Discount)-112486 (1,800) 97,197 86,462 (10,734)(8,897) TFX12 (Discount)-111866 (1,283) 80,743 71,846 TFX12 (Discount)-111866 (8,271) 585,047 520,446 (64,600)TFX12 (Discount)-111866 (11,921) 1,171,502 1,042,167 (129,335)TFX5 (Discount)-111866 (379) 9,979 8,881 (1,097)TFX5 (Discount)-111866 (2,445) 63,960 (7,947)71,907 TFX5 (Discount)-111866 (22,189) 1,809,223 1,609,489 (199,733)

0

0

0

111,593

33,029,950

96,359,808

96,359,808

129,389,759

99,286

(3,493,102)

24,309,584

81,314,450

81,312,650

105,622,234

0

0

(1,800)

99,286

(111,593)

(3,493,102)

(8,720,366)

0

0

(1,800)

(15,045,358)

(15,047,159)

(23,767,525)

-35.87%

-18.51%

-22.50%

Notes:

Total

Windom-118657 (2,500)

COMM COST OF GAS

PRODUCER DEMAND

Capacity Release

Demand

DDVCs

All Credits

Commodity

Northwestern Energy (1,035)

NNG

12 MONTHS ENDED JUNE 2020

F. Supplier Refunds Received

Notes:

Schedule F & G
Page 1 of 1

8/16/2020

SUMMARY OF SUPPLIER REFUNDS AND REFUNDS CREDITED TO CUSTOMERS

Northern Natural Gas	\$ (194,688.05)
Northwestern Energy	\$ (2,602.28)
Total Refunds Received	\$ (197,290.33)
G. Refunds Credited to Customers by PGA system	
Total Credits to Customers	\$ 0.00

12 MONTHS ENDED JUNE 2020

(OVER) UNDER RECOVERY OF GAS COSTS SUMMARY

NNG

1. Total Rate Schedule Purchases

\$105,622,234

(Schedules C & D, Page 1)

2. Rate Schedule Base Costs Recovered through Sales Rates

(Schedule A, Page 1) <u>\$127,716,941</u>

3. Difference to be Collected (Distributed) through PGA (\$22,094,707)

(Line 1 - Line 2)

4. Actual PGA Collected (Distributed)

(Schedule B & E, Page 1 - Schedule A, Page 1) \$1,672,818

5. Gas Costs (Over) Under Recovered (\$23,767,525)

(Line 3 - Line 4)

Notes:

Schedule H

Page 1 of 1



8/16/2020

12 MONTHS ENDED JUNE 2020 Capacity Release Summary

	NI	NG	Northern Boro	der Pipeline	Totals
Month	Dth	\$	Dth	\$	Dth \$
Jul-19	959,500	\$ 42,282.75	1,240,000	\$ 790,833.33	2,199,500 \$ 833,116.08
Aug-19	992,000	\$ 40,169.00	1,240,000	\$ 790,833.33	2,232,000 \$ 831,002.33
Sep-19	744,000	\$ 32,609.50	1,200,000	\$ 790,833.33	1,944,000 \$ 823,442.83
Oct-19	308,000	\$ 14,903.00	1,240,000	\$ 790,833.33	1,548,000 \$ 805,736.33
Nov-19	2,299,320	\$ 635,867.23	1,200,000	\$ 790,833.33	3,499,320 \$ 1,426,700.56
Dec-19	1,958,132	\$ 594,327.56	1,240,000	\$ 790,833.33	3,198,132 \$ 1,385,160.89
Jan-20	1,945,506	\$ 588,297.09	1,240,000	\$ 790,833.33	3,185,506 \$ 1,379,130.42
Feb-20	1,954,006	\$ 619,037.24	1,160,000	\$ 790,833.33	3,114,006 \$ 1,409,870.57
Mar-20	2,127,964	\$ 624,827.23	1,240,000	\$ 790,833.33	3,367,964 \$ 1,415,660.56
Apr-20	1,321,120	\$ 85,763.10	1,200,000	\$ 632,667.00	2,521,120 \$ 718,430.10
May-20	1,801,224	\$ 121,459.10	1,240,000	\$ 632,667.00	3,041,224 \$ 754,126.10
Jun-20	1,443,120	\$ 93,559.10	1,200,000	\$ 632,667.00	2,643,120 \$ 726,226.10
Total	17,853,892	\$ 3,493,101.90	14,640,000	\$ 9,015,500.97	32,493,892 \$ 12,508,602.87

Notes:

Included in the above totals for NNG Pipeline are capacity releases specific to the Rochester expansion project. In compliance with the Capacity Release Plan approved by the Commission on May 8, 2018 (Docket G011/GP-15-895), below are the details of the monthly capacity releases related to that specific additional capacity.

	Roch	ester
Month	Dth	\$
Jul-19	-	\$ -
Aug-19	-	\$ -
Sep-19	-	\$ -
Oct-19	-	\$ -
Nov-19	23,104	\$ 269,397.08
Dec-19	23,104	\$ 269,397.08
Jan-20	23,104	\$ 269,397.08
Feb-20	23,104	\$ 269,397.08
Mar-20	23,104	\$ 269,397.08
Apr-20	23,104	\$ 43,931.10
May-20	23,104	\$ 43,931.10
Jun-20	23,104	\$ 43,931.10
Total	184,832	\$ 1,478,778.71

Schedule J Page 1 of 1

PIPELINE DAILY SCHEDULING SUMMARY

NNG 2019-2020

8/16/2020

Month	Туре	Volume Dth		NNG Amount	Sales Dth	ddvc Dth %
July	Negative ddvc	-	\$	-		
July	Positive ddvc	-	\$	-		
July	total	-	\$	-	640,613	0.00%
August	Negative ddvc	_	\$	-		
August	Positive ddvc	-	\$	-		
August	total	-	\$	-	601,100	0.00%
Contombor	Magativa ddya		Ι¢			
September September	Negative ddvc Positive ddvc	-	\$	-		
September September	total	<u> </u>	\$	-	588,790	0.00%
Осртствет	total		Ψ		300,130	0.007
October	Negative ddvc	-	\$	-		
October	Positive ddvc	1,515	\$	382.08		
October	total	1,515	\$	382.08	1,226,332	0.12%
	I I		I .			
November	Negative ddvc	-	\$	-		
November	Positive ddvc	-	\$	-		
November	total	-	\$	-	2,681,660	0.00%
December	Negative ddvc		\$			
December	Positive ddvc		\$	_		
December	total	-	\$	-	4,430,818	0.00%
	In e u I		ΙΛ			
January	Negative ddvc	-	\$	(2.250.22)		
January	Annual Credit Allocation		\$ \$	(3,350.22)	E 074 406	0.00%
January	total	-	Þ	(3,350.22)	5,071,106	0.00%
February	Negative ddvc	-	\$	-		
February	Positive ddvc	-	\$	-		
February	total	-	\$	-	4,327,729	0.00%
N.A. v.a.la	INIa matica alaba		Ι¢			
March March	Negative ddvc Positive ddvc	-	\$ \$	-		
March	total		\$		3,817,080	0.00%
Maich	lotai		Ψ		3,017,000	0.00 /
April	Negative ddvc	-	\$	-		
April	Positive ddvc	3,168	\$	1,168.04		
April	total	3,168	\$	1,168.04	2,615,787	0.12%
NA	IN and Carabbas		ΙΛ			
May	Negative ddvc	-	\$	-		
May May	Positive ddvc total		\$ \$	-	1,521,919	0.00%
iviay	lotai	-	Ψ	-	1,521,515	0.0076
June	Negative ddvc	-	\$	-		
June	Positive ddvc	-	\$	-		
June	total	-	\$	-	787,895	0.00%
	total	4,683	\$	(1,800.10)	28,310,830	0.02%
	ισιαι	4,003	Ψ	(1,000.10)	20,310,030	0.02%

Schedule L

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MERC

Financial Hedging Report July 1, 2019 through June 30, 2020

July 1, 2019 thr

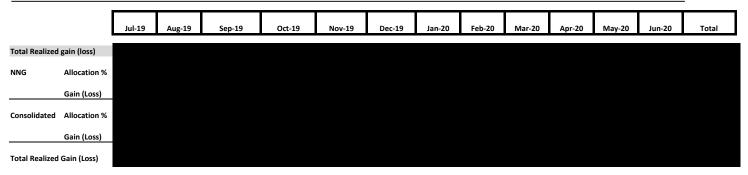
I. Futures

[TRADE SECRET DATA BEGINS....

	Delivery		Average price	Average sale price,	Average gain (loss),	Net realized
	period	Contracts	\$/MMBTU	\$/MMBTU	\$/MMBTU	gain (loss)
	Nov-19					
	Dec-19					
	Jan-20					
	Feb-20					
	Mar-20					
Futures subtotal						

II. Options

Option type	delivery period	Contracts	Sale Proceeds	Average gain (loss), \$/MMBTU	Net realized gain (loss)
Call	Nov-19				
Call	Dec-19				
Call	Jan-20				
Call	Feb-20				
Call	Mar-20				
Options subtot	al				
Futures and Op	tions total				



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8/16/2020

12 MONTHS ENDED JUNE 2020

CALCULATION OF PRIOR PERIOD REVENUES BILLED AFTER JUNE 30, 2017

F			1	1	1		1	1	1			1	
NNG	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Total
GS													
Dth	0						(22)						(22)
Demand	0						(32)						(32)
Rate	\$0.9376	\$0.9376	\$0.9376	\$0.9376	\$0.9328	\$0.9328	\$0.9367	\$0.9367	\$0.9367	\$0.9367	\$0.9367	\$0.9367	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	(\$30)	\$0	\$0	\$0	\$0	\$0	(\$30)
Commodity													
Rate	\$3.1250	\$3.0727	\$3.2912	\$3.0658	\$3.2481	\$3.6515	\$3.3786	\$4.4824	\$3.1308	\$3.0668	\$3.1656	\$3.1530	
Revenue	\$1	\$0	\$0	\$0	\$0	\$0	(\$110)	\$0	\$0	\$0	\$0	\$0	(\$109)
404													
ACA Rate	\$0.0301	\$0.0301	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	\$0.1072	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	(\$3)	\$0	\$0	\$0	\$0	\$0	(\$3)
		•	40		00		(0.4.40)	A 0	40		00	Φ0	(0.4.40)
Total \$ \$ w/o ACA	\$1 \$1	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$143) (\$140)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	(\$142) (\$139)
\$ W/O ACA	φı	ΦΟ	ΦΟ	φυ	φυ	Φ0	(\$140)	ΦΟ	ΦΟ	Φ0	ΦΟ	ΦΟ	(\$139)
IS													
Dth													0
Commodity													0
Rate	\$3.1250	\$3.0727	\$3.2912	\$3.0658	\$3.2481	\$3.6515	\$3.3786	\$4.4824	\$3.1308	\$3.0668	\$3.1656	\$3.1530	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ACA													
Rate	\$0.3906	\$0.3906	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	\$0.3642	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		•	•	•	•	•	•		•	•	•		
Total \$ \$ w/o ACA	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0						
\$ W/O ACA	φυ	φυ	φυ	φυ	φυ	φυ	φυ						
TOTAL													
Dth	0	_	-	-	_	-	(32)	-	_	_	_	_	(32)
Demand	0	0	0	0	0	0	(30)	0	0	0	0	0	(30)
Commodity	1	0	0	0	0	0	(110)	0	0	0	0	0	(109)
ACA	0	0	0	0	0	0	(3)	0	0	0	0	0	(3)
Total \$	\$1 \$4	\$0 \$0	\$0	\$0	\$0	\$0	(\$143)	\$0 \$0	\$0 \$0	\$0	\$0 \$0	\$0 \$0	(\$142)
\$ w/o ACA	\$1	\$0	\$0	\$0	\$0	\$0	(\$140)	\$0	\$0	\$0	\$0	\$0	(\$139)

Schedule M Page 2 of 2

12 MONTHS ENDED JUNE 2020

CALCULATION OF PRIOR PERIOD REVENUES BILLED AFTER JUNE 30, 2017

8/16/2020

	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Total
GS													
Dul			(0)	(0)					0	(0)	(4)		(4)
Dth Demand			(0)	(0)					3	(3)	(1)		(1)
Rate	\$0.9367	\$0.9367	\$0.9367	\$0.9367	\$1.1467	\$1.1467	\$1.1467	\$1.1467	\$1.1467	\$1.1467	\$1.1467	\$1.1467	
Revenue	\$0	\$0	(\$0)	(\$0)	\$0	\$0	\$0	\$0	\$4	(\$3)	(\$1)	\$0	(\$1)
Commodity													
Rate	\$3.2206	\$3.1924	\$3.2415	\$3.4787	\$3.8193	\$4.5550	\$4.2682	\$3.7262	\$3.4347	\$3.4654	\$3.0214	\$3.0201	
Revenue	\$0	\$0	(\$0)	(\$0)	\$0	\$0	\$0	\$0	\$12	(\$10)	(\$4)	\$0	(\$2)
ACA													
Rate	\$0.1072	\$0.1072	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	\$0.2234	
Revenue	\$0	\$0	(\$0)	(\$0)	\$0	\$0	\$0	\$0	\$1	(\$1)	(\$0)	\$0	(\$0)
Total \$	\$0	\$0	(\$0)	(\$0)	\$0	\$0	\$0	\$0	\$16	(\$13)	(\$6)	\$0	(\$3)
\$ w/o ACA	\$0	\$0	(\$0)	(\$0)	\$0	\$0	\$0	\$0	\$16	(\$13)	(\$5)	\$0	(\$3)
IS													
Dth													0
Commodity Rate	\$3.2206	\$3.1924	\$3.2415	\$3.4787	\$3.8193	\$4.5550	\$4.2682	\$3.7262	\$3.4347	\$3.4654	\$3.0214	\$3.0201	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ACA Rate	\$0.3642	\$0.3642	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	\$0.4068	
Revenue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total \$	¢ο	\$ 0	¢ 0	Φ0	Φ0	¢ο	ΦO	¢ 0	¢ο	Φ0	0.0	Φ0	90
\$ w/o ACA	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0
													**
TOTAL	\$3.5848	\$3.5566	\$3.6483	\$3.8855	\$4.2261	\$4.9618	\$4.6750	\$4.1330	\$3.8415	\$3.8722	\$3.4282	\$3.4269	
Dth	-	-	(0)	(0)	_	-	-	-	3	(3)	(1)	-	(1)
Demand	0	0	(0)	(0)	0	0	0	0	4	(3)	(1)	0	(1)
Commodity	0	0	(0)	(0)	0	0	0	0	12	(10)	(4)	0	(2)
ACA Total \$	0 \$0	0 \$0	(0) (\$0)	(0) (\$0)	0 \$0	0 \$0	0 \$0	0 \$0	1 \$16	(1) (\$13)	(0) (\$6)	0 \$0	(0) (\$3)
\$ w/o ACA	\$0 \$0	\$0 \$0	(\$0)	(\$0)	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$16	(\$13)	(\$5)	\$0 \$0	(\$3)

PGAC Hedging Rate Comparison: MERC NNG

	No	Hedge	50%	50%
	Hedge	Plan	Futures	Options
Jul-19	\$ 6.3398	\$ 6.3398	\$ 6.3398	\$ 6.3398
Aug-19	\$ 6.3661	\$ 6.3661	\$ 6.3661	\$ 6.3661
Sep-19	\$ 6.2748	\$ 6.2748	\$ 6.2748	\$ 6.2748
Oct-19	\$ 6.3392	\$ 6.3392	\$ 6.3392	\$ 6.3392
Nov-19	\$ 7.0533	\$ 7.0570	\$ 6.9838	\$ 7.0973
Dec-19	\$ 7.0356	\$ 7.1143	\$ 7.2375	\$ 7.1313
Jan-20	\$ 7.4473	\$ 7.6202	\$ 8.0966	\$ 7.5549
Feb-20	\$ 7.1361	\$ 7.3316	\$ 7.9235	\$ 7.2311
Mar-20	\$ 7.0404	\$ 7.1931	\$ 7.6548	\$ 7.1149
Apr-20	\$ 6.9289	\$ 6.9289	\$ 6.9289	\$ 6.9289
May-20	\$ 7.2083	\$ 7.2083	\$ 7.2083	\$ 7.2083
Jun-20	\$ 6.5441	\$ 6.5441	\$ 6.5441	\$ 6.5441
Average	\$ 6.8095	\$ 6.8598	\$ 6.9915	\$ 6.8442

PGAC Hedging Rate Comparison: MERC CONSOLIDATED

	No	Hedge	50%	50%
	Hedge	Plan	Futures	Options
Jul-19	\$ 5.5202	\$ 5.5202	\$ 5.5202	\$ 5.5202
Aug-19	\$ 5.2938	\$ 5.2938	\$ 5.2938	\$ 5.2938
Sep-19	\$ 5.4576	\$ 5.4576	\$ 5.4576	\$ 5.4576
Oct-19	\$ 5.4602	\$ 5.4602	\$ 5.4602	\$ 5.4602
Nov-19	\$ 6.0716	\$ 6.0753	\$ 6.0021	\$ 6.1156
Dec-19	\$ 5.9884	\$ 6.0671	\$ 6.1903	\$ 6.0841
Jan-20	\$ 5.6680	\$ 5.8409	\$ 6.3173	\$ 5.7756
Feb-20	\$ 5.4453	\$ 5.6408	\$ 6.2327	\$ 5.5403
Mar-20	\$ 5.3584	\$ 5.5111	\$ 5.9728	\$ 5.4329
Apr-20	\$ 4.9406	\$ 4.9406	\$ 4.9406	\$ 4.9406
May-20	\$ 5.1684	\$ 5.1684	\$ 5.1684	\$ 5.1684
Jun-20	\$ 5.1393	\$ 5.1393	\$ 5.1393	\$ 5.1393
Average	\$ 5.4593	\$ 5.5096	\$ 5.6413	\$ 5.4941



Input Data

- Forward Curve as of May 15, 2019
- Implied Volatility Curve as of May 15, 2019
 - In financial mathematics, the implied volatility of an option contract is the volatility implied by the market price of the option based on an option pricing model. In other words, it is the volatility that, when used in a particular pricing model, yields a theoretical value for the option equal to the current market price of that option. Implied volatility, a forward-looking measure, differs from historical volatility because the latter is calculated from known past returns of a security. (Source: http://en.wikipedia.org/wiki/Implied_volatility)



Examples of Input Data

Jan-2020 Forward Price was \$3.01

Jan-2020 Implied Volatility was 30%



Example of Monte Carlo Price Methodology

- Once an implied volatility curve is known, we can build changes to the forward curve.
 - From May 15, 2019 to Jan 1, 2020 the forward curve for Jan-2020 changes as follows:
 - Price₂ = Price₁(\$3.01)*e^(-(Implied Volatility(30%)^2)/2*(16/365) + Random Variable₁*Implied Volatility(30%)*Square Root of (16/365))
 - Price₃ = Price₂*e^(-(Implied Volatility(30%)^2)/2*(30/365) + Random Variable₂*Implied Volatility(30%)*Square Root of (30/365))
 - Price₄ = Price₃*e^(-(Implied Volatility(30%)^2)/2*(31/365) + Random Variable₃*Implied Volatility(30%)*Square Root of (31/365))
 - Et cetera
 - Price₉ = Price₈*e^(-(Implied Volatility(30%)^2)/2*(31/365) + Random Variable₈*Implied Volatility(30%)*Square Root of (31/365))



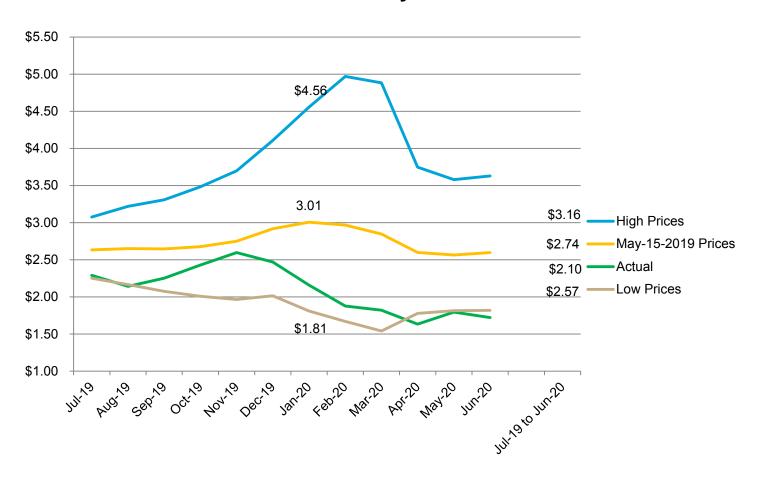
Result

- Jan-2020
 - Catastrophic High Price is \$4.56
 - 2.5% chance of price greater than this price
 - May-15-2019 Price is \$2.16
 - Low Price is \$1.81
 - 2.5% chance of price less than this price
- Jul-2019 to Jun-2020
 - Catastrophic High Average Price is \$3.16
 - 2.5% chance of average price greater than this price
 - May-15-2019 Average Price is \$2.74
 - Low Average Price is \$2.57
 - 2.5% chance of average price less than this price



Result

Henry Hub



Average Residential Volumes							
	NNG	Con					
Jul-19	1.7001	1.0104					
Aug-19	1.2476	0.7959					
Sep-19	1.5472	1.1343					
Oct-19	2.5178	2.7142					
Nov-19	7.6522	8.1905					
Dec-19	12.5177	13.0824					
Jan-20	14.6055	15.2137					
Feb-20	14.4454	14.4419					
Mar-20	12.1278	13.2959					
Apr-20	8.9613	9.9955					
May-20	6.2036	6.8741					
Jun-20	2.7828	2.5772					
	7.4004	7 4400					
Average	7.1924	7.4438					

Total Cost in Monthly PGA Filings w/ hedging					
		NNG		Con	
Jul-19	\$	10.78	\$	5.58	
Aug-19	\$	7.94	\$	4.21	
Sep-19	\$	9.71	\$	6.19	
Oct-19	\$	15.96	\$	14.82	
Nov-19	\$	54.00	\$	49.76	
Dec-19	\$	89.06	\$	79.37	
Jan-20	\$	111.30	\$	88.86	
Feb-20	\$	105.91	\$	81.46	
Mar-20	\$	87.24	\$	73.27	
Apr-20	\$	62.09	\$	49.38	
May-20	\$	44.72	\$	35.53	
Jun-20	\$	18.21	\$	13.24	
Average	\$	51.41	\$	41.81	

Total Cost in Monthly PGA Filings w/o hedging					
		NNG		Con	
Jul-19	\$	10.78	\$	5.58	
Aug-19	\$	7.94	\$	4.21	
Sep-19	\$	9.71	\$	6.19	
Oct-19	\$	15.96	\$	14.82	
Nov-19	\$	53.97	\$	49.73	
Dec-19	\$	88.07	\$	78.34	
Jan-20	\$	108.77	\$	86.23	
Feb-20	\$	103.08	\$	78.64	
Mar-20	\$	85.39	\$	71.24	
Apr-20	\$	62.09	\$	49.38	
May-20	\$	44.72	\$	35.53	
Jun-20	\$	18.21	\$	13.24	
Average	\$	50.72	\$	41.10	

Average Residential Volumes - 120%						
	NNG	Con				
Jul-19	2.0401	1.2125				
Aug-19	1.4971	0.9551				
Sep-19	1.8567	1.3612				
Oct-19	3.0214	3.2570				
Nov-19	9.1826	9.8286				
Dec-19	15.0213	15.6989				
Jan-20	17.5266	18.2564				
Feb-20	17.3344	17.3303				
Mar-20	14.5534	15.9550				
Apr-20	10.7536	11.9946				
May-20	7.4443	8.2489				
Jun-20	3.3394	3.0926				
Average	8.6309	8.9326				

Total Cost in Monthly PGA Filings w/ hedging -							
	120%						
		NNG		Con			
Jul-19	\$	12.93	\$	6.69			
Aug-19	\$	9.53	\$	5.06			
Sep-19	\$	11.65	\$	7.43			
Oct-19	\$	19.15	\$	17.78			
Nov-19	\$	64.80	\$	59.71			
Dec-19	\$	106.87	\$	95.25			
Jan-20	\$	133.56	\$	106.63			
Feb-20	\$	127.09	\$	97.76			
Mar-20	\$	104.68	\$	87.93			
Apr-20	\$	74.51	\$	59.26			
May-20	\$	53.66	\$	42.63			
Jun-20	\$	21.85	\$	15.89			
Average	\$	61.69	\$	50.17			

Total Cost in Monthly PGA Filings w/o hedging - 120%						
		NNG	J 70	Con		
			_			
Jul-19	\$	12.93	\$	6.69		
Aug-19	\$	9.53	\$	5.06		
Sep-19	\$	11.65	\$	7.43		
Oct-19	\$	19.15	\$	17.78		
Nov-19	\$	64.77	\$	59.67		
Dec-19	\$	105.68	\$	94.01		
Jan-20	\$	130.53	\$	103.48		
Feb-20	\$	123.70	\$	94.37		
Mar-20	\$	102.46	\$	85.49		
Apr-20	\$	74.51	\$	59.26		
May-20	\$	53.66	\$	42.63		
Jun-20	\$	21.85	\$	15.89		
Average	\$	60.87	\$	49.31		

Average Residential Volumes - 80%							
	NNG	Con					
Jul-19	1.3601	0.8083					
Aug-19	0.9981	0.6367					
Sep-19	1.2378	0.9074					
Oct-19	2.0142	2.1714					
Nov-19	6.1218	6.5524					
Dec-19	10.0142	10.4659					
Jan-20	11.6844	12.1709					
Feb-20	11.5563	11.5535					
Mar-20	9.7023	10.6367					
Apr-20	7.1691	7.9964					
May-20	4.9629	5.4993					
Jun-20	2.2263	2.0617					
Average	5.7539	5.9551					

Total Cos	Total Cost in Monthly PGA Filings w/ hedging -					
		8	0%			
		NNG		Con		
Jul-19	\$	8.62	\$	4.46		
Aug-19	\$	6.35	\$	3.37		
Sep-19	\$	7.77	\$	4.95		
Oct-19	\$	12.77	\$	11.86		
Nov-19	\$	43.20	\$	39.81		
Dec-19	\$	71.24	\$	63.50		
Jan-20	\$	89.04	\$	71.09		
Feb-20	\$	84.73	\$	65.17		
Mar-20	\$	69.79	\$	58.62		
Apr-20	\$	49.67	\$	39.51		
May-20	\$	35.77	\$	28.42		
Jun-20	\$	14.57	\$	10.60		
Average	\$	41.13	\$	33.45		

Total Cost in Monthly PGA Filings w/o hedging -					
		80	%		
		NNG		Con	
Jul-19	\$	8.62	\$	4.46	
Aug-19	\$	6.35	\$	3.37	
Sep-19	\$	7.77	\$	4.95	
Oct-19	\$	12.77	\$	11.86	
Nov-19	\$	43.18	\$	39.78	
Dec-19	\$	70.46	\$	62.67	
Jan-20	\$	87.02	\$	68.98	
Feb-20	\$	82.47	\$	62.91	
Mar-20	\$	68.31	\$	57.00	
Apr-20	\$	49.67	\$	39.51	
May-20	\$	35.77	\$	28.42	
Jun-20	\$	14.57	\$	10.60	
Average	\$	40.58	\$	32.88	

Average Residential Volumes							
Ave	NNG Con						
Jul-19	1.7001	1.0104					
Aug-19	1.2476	0.7959					
Sep-19	1.5472	1.1343					
Oct-19	2.5178	2.7142					
Nov-19	7.6522	8.1905					
Dec-19	12.5177	13.0824					
Jan-20	14.6055	15.2137					
Feb-20	14.4454	14.4419					
Mar-20	12.1278	13.2959					
Apr-20	8.9613	9.9955					
May-20	6.2036	6.8741					
Jun-20	2.7828	2.5772					
Average	7.1924	7.4438					

Total Cost in Monthly PGA Filings w/ hedging at						
		Catastro	ohic	Prices		
		NNG		Con		
Jul-19	\$	10.78	\$	5.58		
Aug-19	\$	7.94	\$	4.21		
Sep-19	\$	9.71	\$	6.19		
Oct-19	\$	15.96	\$	14.82		
Nov-19	\$	47.55	\$	44.71		
Dec-19	\$	78.51	\$	74.38		
Jan-20	\$	103.47	\$	95.29		
Feb-20	\$	106.00	\$	94.28		
Mar-20	\$	89.07	\$	90.96		
Apr-20	\$	62.09	\$	49.38		
May-20	\$	44.72	\$	35.53		
Jun-20	\$	18.21	\$	13.24		
Average	\$	49.50	\$	44.05		
	•					

Total Cost in Monthly PGA Filings no hedging at							
	Catastrophic Prices						
		NNG		Con			
Jul-19	\$	10.78	\$	5.58			
Aug-19	\$	7.94	\$	4.21			
Sep-19	\$	9.71	\$	6.19			
Oct-19	\$	15.96	\$	14.82			
Nov-19	\$	54.25	\$	57.25			
Dec-19	\$	93.88	\$	96.81			
Jan-20	\$	124.48	\$	119.38			
Feb-20	\$	129.12	\$	119.32			
Mar-20	\$	107.33	\$	108.68			
Apr-20	\$	62.09	\$	49.38			
May-20	\$	44.72	\$	35.53			
Jun-20	\$	18.21	\$	13.24			
Average	\$	56.54	\$	52.53			

Average Residential Volumes - 120%									
rtvolag	NNG Con								
Jul-19	2.04	1.21							
Aug-19	1.50	0.96							
Sep-19	1.86	1.36							
Oct-19	3.02	3.26							
Nov-19	9.18	9.83							
Dec-19	15.02	15.70							
Jan-20	17.53	18.26							
Feb-20	17.33	17.33							
Mar-20	14.55	15.96							
Apr-20	10.75	11.99							
May-20	7.44	8.25							
Jun-20	3.34	3.09							
Average	8.63	8.93							

Total Cost in Monthly PGA Filings w/ hedging at									
Catastrophic Prices									
		NNG		Con					
Jul-19	\$	12.93	\$	6.69					
Aug-19	\$	9.53	\$	5.06					
Sep-19	\$	11.65	\$	7.43					
Oct-19	\$	19.15	\$	17.78					
Nov-19	\$	57.06	\$	53.66					
Dec-19	\$	94.21	\$	89.25					
Jan-20	\$	124.17	\$	114.35					
Feb-20	\$	127.20	\$	113.14					
Mar-20	\$	106.89	\$	109.15					
Apr-20	\$	74.51	\$	59.26					
May-20	\$	53.66	\$	42.63					
Jun-20	\$	21.85	\$	15.89					
Average	\$	59.40	\$	52.86					

Total Cost	Total Cost in Monthly PGA Filings no hedging at								
Catastrophic Prices									
		NNG		Con					
Jul-19	\$	12.93	\$	6.69					
Aug-19	\$	9.53	\$	5.06					
Sep-19	\$	11.65	\$	7.43					
Oct-19	\$	19.15	\$	17.78					
Nov-19	\$	65.10	\$	68.70					
Dec-19	\$	112.65	\$	116.17					
Jan-20	\$	149.38	\$	143.25					
Feb-20	\$	154.94	\$	143.18					
Mar-20	\$	128.80	\$	130.41					
Apr-20	\$	74.51	\$	59.26					
May-20	\$	53.66	\$	42.63					
Jun-20	\$	21.85	\$	15.89					
Average	\$	67.85	\$	63.04					

Average Residential Volumes - 80%									
	NNG Con								
Jul-19	1.36	0.81							
Aug-19	1.00	0.64							
Sep-19	1.24	0.91							
Oct-19	2.01	2.17							
Nov-19	6.12	6.55							
Dec-19	10.01	10.47							
Jan-20	11.68	12.17							
Feb-20	11.56	11.55							
Mar-20	9.70	10.64							
Apr-20	7.17	8.00							
May-20	4.96	5.50							
Jun-20	2.23	2.06							
Average	5.75	5.96							

Total Cos	Total Cost in Monthly PGA Filings w/ hedging at									
	Catastrophic Prices									
		NNG		Con						
Jul-19	\$	8.62	\$	4.46						
Aug-19	\$	6.35	\$	3.37						
Sep-19	\$	7.77	\$	4.95						
Oct-19	\$	12.77	\$	11.86						
Nov-19	\$	38.04	\$	35.77						
Dec-19	\$	62.81	\$	59.50						
Jan-20	\$	82.78	\$	76.23						
Feb-20	\$	84.80	\$	75.43						
Mar-20	\$	71.26	\$	72.77						
Apr-20	\$	49.67	\$	39.51						
May-20	\$	35.77	\$	28.42						
Jun-20	\$	14.57	\$	10.60						
Average	\$	39.60	\$	35.24						

Total Cost	Total Cost in Monthly PGA Filings no hedging at								
Catastrophic Prices									
		NNG		Con					
Jul-19	\$	8.62	\$	4.46					
Aug-19	\$	6.35	\$	3.37					
Sep-19	\$	7.77	\$	4.95					
Oct-19	\$	12.77	\$	11.86					
Nov-19	\$	43.40	\$	45.80					
Dec-19	\$	75.10	\$	77.44					
Jan-20	\$	99.59	\$	95.50					
Feb-20	\$	103.29	\$	95.45					
Mar-20	\$	85.86	\$	86.94					
Apr-20	\$	49.67	\$	39.51					
May-20	\$	35.77	\$	28.42					
Jun-20	\$	14.57	\$	10.60					
Average	\$	45.23	\$	42.03					

WACOG	•	in Monthly PGA Filings edging	Natural L	.og of Price Cha	e		•	ections in Monthly gs w/o Hedging	Natural	Log of Price	Change
	NNG	CONS	NNG	CONS		NNG		CONS	NNG	CONS	
Jun-19	\$ 3.7250	\$ 3.2707				\$ 3.7250	\$	3.2707			
Jul-19	\$ 2.9219	\$ 2.2287	-0.2428	-0.3836		\$ 2.9219	\$	2.2287	-0.2428	-0.3836	
Aug-19	\$ 2.9482	\$ 2.0023	0.0090	-0.1071		\$ 2.9482	\$	2.0023	0.0090	-0.1071	
Sep-19	\$ 2.8569	\$ 2.1661	-0.0315	0.0786		\$ 2.8569	\$	2.1661	-0.0315	0.0786	
Oct-19	\$ 2.9213	\$ 2.1687	0.0223	0.0012		\$ 2.9213	\$	2.1687	0.0223	0.0012	
Nov-19	\$ 3.6657	\$ 2.7838	0.2270	0.2497		\$ 3.6620	\$	2.7801	0.2260	0.2484	
Dec-19	\$ 3.7230	\$ 2.7756	0.0155	-0.0029		\$ 3.6443	\$	2.6969	-0.0048	-0.0304	
Jan-20	\$ 3.6524	\$ 2.5494	-0.0191	-0.0850		\$ 3.4795	\$	2.3765	-0.0463	-0.1265	
Feb-20	\$ 3.3638	\$ 2.3493	-0.0823	-0.0817		\$ 3.1683	\$	2.1538	-0.0937	-0.0984	
Mar-20	\$ 3.2253	\$ 2.2196	-0.0420	-0.0568		\$ 3.0726	\$	2.0669	-0.0307	-0.0412	
Apr-20	\$ 2.9611	\$ 1.6491	-0.0855	-0.2971		\$ 2.9611	\$	1.6491	-0.0370	-0.2258	
May-20	\$ 3.2405	\$ 1.8769	0.0902	0.1294		\$ 3.2405	\$	1.8769	0.0902	0.1294	
Jun-20	\$ 2.9394	\$ 1.8478	-0.0975	-0.0156		\$ 2.9394	\$	1.8478	-0.0975	-0.0156	

Volatility Reduction Due to Hedging

-1.30%

37.12%

-4.24%

Definition:

The relative rate at which the price of a security moves up and down.

Annual price volatility (v_a) is calculated as the standard deviation of **monthly price changes times the square root of 12**.

 $\begin{array}{l} v_a = Standard\ Deviation\ (c_{1\ to\ n})\ \textbf{x}\ \textbf{Square\ root\ of\ 12} \\ c_i = Ln(p_i/p_{i\cdot 1})\ \ Ln = Natural\ Logarithm \\ p_i = Price\ for\ \textbf{month}\ i \end{array}$

Source: Options, Futures and Other Derivatives, John C. Hull, pages 232-234

MINNESOTA ENERGY RESOURCES - NNG

Third Party Damage Bills July 2019 - June 2020

[TRADE SECRET DATA BEGINS....

[TRADE SECRET DATA BEGINS					
Responsible Party	Pipeline		Loss Billed	Gas Loss Dths	Date of Damage
	NNG	\$	(6.18)	1.50	8/22/2019
	NNG	\$	(2.84)	0.82	10/7/2019
	NNG	\$	(28.06)	6.81	8/26/2019
	NNG	\$	(29.45)	7.05	11/8/2019
	NNG	\$	(3.38)	0.82	8/14/2019
	NNG	\$	(14.47)	3.72	10/11/2019
	NNG	\$	(0.49)	0.14	9/30/2019
	NNG	\$	(282.84)	83.35	9/3/2019
	NNG	\$	(128.34)	37.82	9/7/2019
	NNG	\$	(0.88)	0.25	6/29/2019
	NNG	\$	(1.26)	0.31	8/16/2019
	NNG	\$	(21.25)	4.84	5/3/2019
	NNG	\$	(58.49)	14.45	4/1/2020
	NNG	\$	(42.65)	15.81	9/30/2019
	NNG	\$ \$	(67.65)	20.77	7/2/2019
	NNG		(185.46)	64.38	2/24/2020
	NNG	\$	(66.11)	21.46	1/6/2020
	NNG	\$	(6.26)	1.85	9/23/2019
	NNG	\$	(450.57)	104.13	5/8/2020
	NNG	\$	(483.56)	45.07	6/12/2019
	NNG	\$	(952.76)	225.08	12/4/2019
	NNG	\$	(0.47)	0.14	7/18/2019
	NNG	\$	(198.46)	41.88	1/11/2020
	NNG	\$	(3,835.88)	1,094.72	6/11/2019
	NNG	\$	(17.53)	8.04	4/16/2020
	NNG	\$	(44.00)	12.87	7/25/2019
	NNG	\$	(59.96)	1.34	10/21/2019
	NNG	\$	(1.41)	0.42	9/25/2019
	NNG	\$	(26.19)	8.04	7/8/2019
	NNG	\$	(435.51)	99.20	6/27/2019
	NNG	\$	(4.36)	0.99	6/18/2019
	NNG	\$	(414.84)	99.20	10/17/2019
	NNG	\$	(88.14)	18.60	1/30/2020
	NNG	\$	(158.65)	-	10/16/2019
	NNG	\$	(116.38)	26.90	5/13/2020
	NNG	\$	(2.78)	0.82	9/10/2019
	NNG	\$	(1.56)	0.36	5/4/2020
	NNG	\$	(10.14)	2.46	8/15/2019
	NNG	\$	(39.19)	11.26	6/26/2019
	NNG	\$	(272.19)	62.00	6/28/2019
	NNG	\$	(10.84)	3.19	9/24/2019
	NNG	\$	(1,092.83)	360.61	8/1/2019
	NNG	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	(7.00)	1.17	7/12/2019
	NNG	\$	(53.41)	19.80	9/18/2019
	NNG	\$	(277.79)	66.53	11/13/2019
	NNG	\$	(122.94)	27.63	2/4/2020
	NNG	\$	(884.55)	214.65	8/6/2019
	NNG	\$	(1.61)	0.47	10/21/2019
	NNG	\$	(2.78)	1.03	10/18/2019
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MINNESOTA ENERGY RESOURCES - NNG

Third Party Damage Bills July 2019 - June 2020

Schedule Q Page 2 of 3

[TRADE SECRET DATA BEGINS....

Responsible Party	Pipeline	Gas	Loss Billed	Gas Loss Dths	Date of Damage
	NNG	\$	(55.01)	15.91	10/9/2019
	NNG	\$	(34.91)	10.72	7/27/2019
	NNG	\$	(1,259.09)	103.93	10/14/2019
	NNG	\$	(18.92)	1.64	9/5/2019
	NNG	\$	(79.53)	23.44	9/23/2019
	NNG	\$	(488.20)	103.02	1/13/2020
	NNG	\$	(7.97)	1.68	1/3/2020
	NNG	\$	(167.10)	47.70	8/28/2019
	NNG	\$	(47.68)	11.57	8/20/2019
	NNG	\$	(97.74)	23.87	7/31/2019
	NNG	\$	(7.46)	2.46	8/20/2019
	NNG	\$	(33.57)	8.04	11/2/2019
	NNG	\$	(0.76)	0.25	8/12/2019
	NNG	\$	(10.14)	2.46	10/25/2019
	NNG	\$	(57.41)	17.63	7/16/2019
	NNG	\$	(20.67)	6.82	8/6/2019
	NNG	\$	(131.60)	31.52	11/21/2019
	NNG	\$	-	0.66	4/8/2020
	NNG	\$	(25.03)	9.27	10/1/2019
	NNG	\$	(809.84)	244.28	11/15/2019
	NNG	\$	(50.16)	12.25	7/18/2019
	NNG	\$	(75.29)	18.60	4/15/2020
	NNG	\$	(38.17)	8.69	5/23/2019
	NNG	\$	(1,255.86)	-	11/9/2019
	NNG	\$	(572.24)	139.76	7/18/2019
	NNG	\$	(1.85)	0.45	8/29/2019
	NNG	\$	(371.43)	80.00	5/13/2020
	NNG	\$	(16.08)	-	10/16/2019
	NNG	\$	(1,154.66)	427.64	10/4/2019
	NNG	\$	(112.79)	32.19	6/13/2019
	NNG	\$	(18.29)	5.10	8/31/2018
	NNG	\$	(1,442.66)	328.60	5/31/2019
	NNG	\$	(82.17)	17.34	1/10/2020
	NNG	\$	(5.60)	1.36	8/15/2019
	NNG	\$	(5.96)	1.34	2/5/2020
	NNG	\$	(264.39)	62.58	11/25/2019
	NNG	\$	(23.49)	7.75	8/2/2019
	NNG	\$	(914.84)	222.00	8/30/2019
	NNG	\$	(800.84)	209.07	7/15/2019
	NNG	\$	(304.64)	74.40	7/30/2019
	NNG	\$	(64.32)	18.60	10/29/2019
	NNG	\$	(82.67)	19.53	12/1/2019
	NNG	\$ \$ \$ \$ \$	(66.89)	19.71	9/10/2019
	NNG	\$	(1.84)	0.45	7/12/2019
	NNG	\$	(25.38)	10.54	5/23/2020
	NNG	\$	(2,254.07)	550.50	7/30/2019
	NNG	\$	(1.12)	0.32	10/21/2019
	NNG		(125.89)	28.68	6/10/2019
	NNG	\$	(3.52)	0.86	8/1/2019
	NNG	\$	(20.00)	5.79	10/25/2019

MINNESOTA ENERGY RESOURCES - NNG

Third Party Damage Bills July 2019 - June 2020

Schedule Q Page 3 of 3

[TRADE SECRET DATA BEGINS....

Responsible Party	Pipeline	Ga	s Loss Billed	Gas Loss Dths	Date of Damage
	NNG	\$	(118.68)	28.80	8/13/2019
	NNG	\$	(16.46)	4.02	7/10/2019
	NNG	\$	(124.71)	36.75	9/20/2019
	NNG	\$	(5.00)	1.45	10/28/2019
	NNG	\$	(2,781.09)	917.70	8/14/2019
	NNG	\$	(2.37)	0.54	6/30/2019
	NNG	\$	(13.92)	3.22	5/27/2020
	NNG	\$	(55.00)	12.71	5/13/2020
	NNG	\$	(94.17)	21.45	6/29/2019
	NNG	\$	(1.84)	0.42	6/20/2019
	NNG	\$	(442.17)	107.30	8/27/2019
	NNG	\$	(12.04)	4.46	9/11/2019
	NNG	\$	(116.02)	33.55	10/31/2019
	NNG	\$	(3.41)	1.01	9/16/2019
	NNG	\$	(0.62)	0.15	8/21/2019
	NNG	\$	(1.10)	371.65	7/9/2019
	NNG	\$	(7.19)	2.12	9/23/2019
	NNG	\$	(304.64)	74.40	7/11/2019
	NNG	\$	(2.09)	0.62	9/23/2019
	NNG	\$	(20.12)	4.65	5/28/2020
	NNG	\$	(5.99)	1.71	6/18/2019
	NNG	\$	(17.85)	5.89	8/7/2019
	NNG	\$	(77.53)	18.81	8/27/2019
	NNG	\$	(7.56)	1.79	12/23/2019
	NNG	\$	(6.19)	1.43	5/12/2020
	NNG	\$	(31.00)	10.23	8/8/2019
	NNG	\$	(2.70)	0.66	7/2/2019
	NNG	\$	(17.09)	4.15	8/22/2019
	NNG	\$	(248.95)	82.15	8/23/2019
	NNG	\$	(0.67)	0.25	9/5/2019
	NNG	\$	(10.66)	2.60	8/5/2019
			-\$29,072.91	\$7,572.36	

Docket No. G011/AA-20-655

In the Matter of the Annual Automatic Adjustment Report of Minnesota Energy Resources Corporation, MERC-NNG and MERC-Consolidated

CERTIFICATE OF SERVICE

I, Colleen T. Sipiorski, hereby certify that on the 1st day of September, 2020, on behalf of Minnesota Energy Resources Corporation ("MERC"), I electronically filed a true and correct copy of the enclosed Annual Automatic Adjustment Report of MERC – NNG on www.edockets.state.mn.us. Said documents were also served via U.S. mail and electronic service as designated on the attached service list.

Dated this 1st day of September, 2020.

/s/ Colleen T. Sipiorski
Colleen T. Sipiorski

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Tamie A.	Aberle	tamie.aberle@mdu.com	Great Plains Natural Gas Co.	400 North Fourth Street Bismarck, ND 585014092	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Kristine	Anderson	kanderson@greatermngas. com	Greater Minnesota Gas, Inc.& Greater MN Transmission, LLC	1900 Cardinal Lane PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Melodee	Carlson Chang	melodee.carlsonchang@ce nterpointenergy.com	CenterPoint Energy	505 Nicollet Mall Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Steven	Clay	Steven.Clay@CenterPoint Energy.com	CenterPoint Energy Minnesota Gas	505 Nicollet Mall Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_20-172_AA-20- 172
Marie	Doyle	marie.doyle@centerpointen ergy.com	CenterPoint Energy	505 Nicollet Mall P O Box 59038 Minneapolis, MN 554590038	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Brian	Gardow	bgardow@greatermngas.c om	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Nicolle	Kupser	nkupser@greatermngas.co m	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Greg	Palmer	gpalmer@greatermngas.co m	Greater Minnesota Gas, Inc. & Greater MN Transmission, LLC	1900 Cardinal Ln PO Box 798 Faribault, MN 55021	Electronic Service	No	OFF_SL_20-172_AA-20- 172

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Lisa	Peterson	lisa.r.peterson@xcelenergy .com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Catherine	Phillips	Catherine.Phillips@wecene rgygroup.com	Minnesota Energy Resources	231 West Michigan St Milwaukee, WI 53203	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_20-172_AA-20- 172
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	Yes	OFF_SL_20-172_AA-20- 172
Kristin	Stastny	kstastny@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Andrew	Sudbury	Andrew.Sudbury@CenterPointEnergy.com	CenterPoint Energy Minnesota Gas	505 Nicollet Mall PO Box 59038 Minneapolis, MN 55459-0038	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Lynnette	Sweet	Regulatory.records@xcele nergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Mary	Wolter	mary.wolter@wecenergygr oup.com	Minnesota Energy Resources Corporation (HOLDING)	231 West Michigan St Milwaukee, WI 53203	Electronic Service	No	OFF_SL_20-172_AA-20- 172
Donald	Wynia	donald.wynia@centerpoint energy.com	CenterPoint Energy	CenterPoint Energy 505 Nicollet Mall Minneapolis, MN 55402	Electronic Service	No	OFF_SL_20-172_AA-20- 172

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Michael	Ahern	ahern.michael@dorsey.co m	Dorsey & Whitney, LLP	50 S 6th St Ste 1500 Minneapolis, MN 554021498	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Michael J	Auger	Michael.auger@ever- greenenergy.com	Ever-Green Energy	305 Saint Peter St Saint Paul, MN 55102	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Sundra	Bender	sundra.bender@state.mn.u s	Public Utilities Commission	121 7th Place East Suite 350 Saint Paul, MN 55101-2147	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
James J.	Bertrand	james.bertrand@stinson.co m	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Kathleen M.	Brennan	kmb@mcgrannshea.com	McGrann Shea Carnival, Straughn & Lamb, Chartered	800 Nicollet Mall Ste 2600 Minneapolis, MN 554027035	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
James	Canaday	james.canaday@ag.state. mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Richard	Eichstadt	richard.eichstadt@poet.co m	Poet Biorefining - Preston	701 Industrial Dr N PO Box 440 Preston, MN 55965	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Darcy	Fabrizius	Darcy.fabrizius@constellati on.com	Constellation Energy	N21 W23340 Ridgeview Pkwy Waukesha, WI 53188	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Daryll	Fuentes	dfuentes@usg.com	USG Corporation	550 W Adams St Chicago, IL 60661	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
David P.	Geschwind	dp.geschwind@smmpa.org	Southern Minnesota Municipal Power Agency	500 First Avenue SW Rochester, MN 55902	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Robert	Harding	robert.harding@state.mn.u s	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Annete	Henkel	mui@mnutilityinvestors.org	Minnesota Utility Investors	413 Wacouta Street #230 St.Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Gregory	Jenner	greg.jenner@stoel.com	Stoel Rives LLP	33 South Sixth Street Ste 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Richard	Johnson	Rick.Johnson@lawmoss.co m	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
David	Kyto	djkyto@integrysgroup.com	Integrys Business Support	700 North Adams PO Box 19001 Green Bay, WI 543079001	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
James D.	Larson	james.larson@avantenergy .com	Avant Energy Services	220 S 6th St Ste 1300 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Eric	Lipman	eric.lipman@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 551640620	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Michael	Loeffler	mike.loeffler@nngco.com	Northern Natural Gas Co.	CORP HQ, 714 1111 So. 103rd Street Omaha, NE 681241000	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E St. Paul, MN 55106	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Mike	McGlone	N/A	Heat Share - Salvation Army	2445 Prior Avenue Roseville, MN 55113	Paper Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Brian	Meloy	brian.meloy@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Joseph	Meyer	joseph.meyer@ag.state.mn .us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Andrew	Moratzka	andrew.moratzka@stoel.co m	Stoel Rives LLP	33 South Sixth St Ste 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Samantha	Norris	samanthanorris@alliantene rgy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Catherine	Phillips	Catherine.Phillips@wecene rgygroup.com	Minnesota Energy Resources	231 West Michigan St Milwaukee, WI 53203	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Generic Notice	Residential Utilities Division	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Jeff	Sande		Bemidji State University	Box 1 Deputy Hall 1500 Birchmont Drive Bemidji, MN 566012699	Paper Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Richard	Savelkoul	rsavelkoul@martinsquires.c om	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Elizabeth	Schmiesing	eschmiesing@winthrop.co m	Winthrop & Weinstine, P.A.	225 South Sixth Street Suite 3500 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Adam	Schurle	adam.schurle@stoel.com	Stoel Rives LLP	33 South Sixth Street, Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Janet	Shaddix Elling	jshaddix@janetshaddix.co m	Shaddix And Associates	7400 Lyndale Ave S Ste 190 Richfield, MN 55423	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Colleen	Sipiorski	Colleen.Sipiorski@wecener gygroup.com	Minnesota Energy Resources Corporation	700 North Adams St Green Bay, WI 54307	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Ken	Smith	ken.smith@ever- greenenergy.com	Ever Green Energy	305 Saint Peter St Saint Paul, MN 55102	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Cari	Snaza	cari.snaza@state.mn.us	Office of Administrative Hearings	PO Box 64620 St. Paul, MN 55155	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
Byron E.	Starns	byron.starns@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation (HOLDING)_2019-2020 MERC AAA True Up
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