



505 Nicollet Mall
PO Box 59038
Minneapolis, MN 55459-0038

August 16, 2018

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

**Re: CenterPoint Energy 's Request for Change in Demand Units
Docket No. G008/M-18- 462 SUPPLEMENTAL FILING**

Dear Mr. Wolf:

On July 2, 2018, CenterPoint Energy Minnesota Gas filed its initial request to change Demand Units for the upcoming 2018-2019 Heating season.

As part of that filing, the company marked Exhibit C3 – The Precedent Agreement between Northern Natural Gas (NNG) Company and CenterPoint Energy Resources Corp., d/b/a/ CenterPoint Energy Minnesota Gas as Trade Secret in its entirety. On the date of our request, the precedent agreement had not yet been filed by NNG with the Federal Energy Regulatory Commission, and was at that point-in-time considered confidential.

With this filing, CenterPoint Energy hereby notifies interested parties that the agreement was filed by NNG at FERC on August 1, 2018. CenterPoint Energy herein re-files the agreement, removing the **NON-PUBLIC** designation to have a more complete public record.

Feel free to contact me at 612-321-5078 if you have any questions.

Sincerely,

/s/ _____

Marie Doyle
Regulatory Analyst
Regulatory Services
Marie.Doyle@CenterPointEnergy.com

**Filing Upon a Change in Demand
Minn. Rule 7829.1300, Subp. 2**

CenterPoint Energy Summary of Exhibits

EXHIBIT A Page 1 of 2 *Annual Demand Cost Estimate - Proposed November 1, 2018
Page 2 of 2 *Annual Demand Cost Estimate - Effective June 1, 2018

EXHIBIT B Additional Information Request from the Department of Commerce Additional information pursuant to the Department's request to all utilities concerning demand entitlement changes dated October 1, 1993.

B1 Design Day Study Model Specification – Traditional
Design Day Study Model Specification – New Data
B2 Heating Degree Day (HDD) data for the most recent 12-month period
Historical and Projected Design Day and Peak Day requirements
B3 *Demand Profile
B4 Historic gas price change comparisons
B5 Firm Design Day Data - Traditional
B6 Migration Firm Sales Design Day Data

EXHIBIT C C1 *NGPL – Demand Assignment
C2 *CenterPoint Energy Competitive Bypass Analysis
C3 Precedent agreement

EXHIBIT D Intervenor Notification Filing Requirements pursuant to Minn. Rule 7825.2910, Subp. 3.

* - indicates NON-PUBLIC document

Exhibit C3 – Precedent Agreement between Northern Natural Gas Company and CenterPoint Energy Resources Corp., d/b/a/CenterPoint Energy Minnesota

Contract No. 602204-0

PRECEDENT AGREEMENT
BETWEEN
NORTHERN NATURAL GAS COMPANY
AND
CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA GAS

This agreement ("Precedent Agreement") is made and entered into as of this 5th day of December 2017, by and between Northern Natural Gas Company, a Delaware corporation ("Northern"), and CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas, a Delaware corporation ("CenterPoint"). Northern and CenterPoint are sometimes referred to herein individually as a "Party" and collectively as the "Parties."

WITNESSETH:

WHEREAS, Northern owns and operates an interstate natural gas transmission system subject to the jurisdiction of the FERC and CenterPoint owns and operates a local distribution company and is a customer of Northern; and

WHEREAS, Northern and CenterPoint are parties to and have been discussing the extension of the Existing Service Agreements, the TBPL Service Agreement, and the SMS Service Agreement and the rates and terms associated therewith; and

WHEREAS, Northern and CenterPoint agree that Northern will continue to be the provider of service to CenterPoint's current and future markets; and,

WHEREAS, CenterPoint and Northern, in making such agreement, recognize and agree that, Northern has discounted certain rates for existing MDQ in Minnesota and future growth options for additional MDQ in an effort to retain for the Northern system the load that CenterPoint could serve from an alternative pipeline, and but for the rates and terms agreed to herein, CenterPoint would bypass Northern and serve its markets with an alternative pipeline; and

WHEREAS, Northern and CenterPoint, upon fulfillment of the conditions precedent set forth herein, desire to enter into the TFX Service Agreement, the TBPL Amendment and the SMS

Amendment under which Northern will provide, and CenterPoint will receive, firm transportation service; and

WHEREAS, this Precedent Agreement and the TFX Service Agreement are issued in replacement and extension of the Existing Service Agreements and the Letter Agreement and upon their effective dates, any and all obligations previously covered by the Existing Service Agreements and the Letter Agreement will vest in and be subsumed by this Precedent Agreement and the TFX Service Agreement;

NOW THEREFORE, in consideration of the terms and conditions set forth below, the receipt and sufficiency of which are hereby acknowledged, Northern and CenterPoint hereby agree and consent as follows:

Section 1. Definitions

- 1.1. “2019 Discount Area Expansion” means the construction of Northern’s facilities necessary to serve the MDQ increases at the receipt and delivery points set forth in Attachment A-3 of the TFX Service Agreement.
- 1.2. “2019 Out-State Area Expansion” means the construction of Northern’s facilities necessary to serve the MDQ increases at the receipt and delivery points set forth in Attachment A-4 of the TFX Service Agreement.
- 1.3. “2023 Credit River Expansion” means the construction of Northern’s facilities necessary to serve the MDQ increases at the receipt and delivery points set forth in Attachment A-5 of the TFX Service Agreement. The town border station for the 2023 Credit River Expansion will be installed at or near the location where Northern’s MNB-75601 and MNB-75602 pipelines cross Texas Ave (CR27), located in Township 114 North, Range 21 West, Section 19 in Scott County, Minnesota or another location that does not negatively impact the economics of either Party.
- 1.4. “Actual Costs” means Shipper’s allocated share of the cost of facilities constructed to provide service pursuant to this Precedent Agreement, which facilities are determined in Northern’s sole discretion, including, but not limited to, (i) planning, design, materials, labor, contract and engineering costs; (ii) overheads; (iii) all applicable taxes, (iv) income tax gross up, when applicable, (v) allowance for funds used during construction (AFUDC),

when applicable; (vi) associated operation and maintenance costs; and (vii) any reservation charge credits, as defined in Northern's FERC Gas Tariff, paid to other shippers by Northern as a result of any outage caused by the construction of the facilities.

- 1.5. "Contract Value" means, as of the determination date, the unpaid reservation charges of the remaining original term of the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement.
- 1.6. "Existing Service Agreements" means TFX Throughput Service Agreement Nos. 111464, 111697 and 129533 and TF Throughput Service Agreement Nos. 111463 and 127357.
- 1.7. "Expansion MDQ" means the MDQ associated with the 2019 Discount Area Expansion, the 2019 Out-State Area Expansion, the 2023 Credit River Expansion and any elected Growth Options.
- 1.8. "Facilities" means all Northern facilities necessary to provide the Expansion MDQ. Facilities include, but are not limited to, facilities on the main, branch and/or lateral pipelines and measurement and appurtenant facilities on Northern's system.
- 1.9. "FERC" means the Federal Energy Regulatory Commission.
- 1.10. "GT&C" means the General Terms and Conditions of Northern's FERC Gas Tariff, as revised from time to time.
- 1.11. "Growth Options" means the right of CenterPoint to request incremental MDQ as set forth in Paragraph 3.e. of the TFX Service Agreement.
- 1.12. "Imaged Documents" means any image or electronically stored copy of any document(s) generated by any Party with respect to this Precedent Agreement, including this Precedent Agreement.
- 1.13. "Letter Agreement" means the letter agreement between the Parties dated 01/13/2005.
- 1.14. "MDQ" means the maximum daily quantity of natural gas to be transported.

- 1.15. "Necessary Approvals" means orders, approvals, consents or waivers issued by the FERC, any federal, state, local, sovereign, or municipal body, or any other governmental authority that have become final and are no longer subject to rehearing or appeal regarding (i) the construction and operation of the Facilities, and (ii) this Precedent Agreement and the TFX Service Agreement as non-conforming agreements. All Necessary Approvals must be in a form and substance and on a time schedule satisfactory to Northern in its sole determination; provided, however, Northern, in its sole discretion, may waive a Necessary Approval(s).
- 1.16. "Northern's FERC Gas Tariff" means Northern's FERC Gas Tariff, as revised from time to time.
- 1.17. "Open Season" means the notices and opportunities to bid for service associated with the Expansion MDQ.
- 1.18. "Precedent Agreement" means this agreement, including Exhibits A through D, which are incorporated herein.
- 1.19. "Primary Delivery Point(s)" means Northern's Market Area delivery points set forth in the TFX Service Agreement.
- 1.20. "Primary Receipt Point(s)" means Northern's Market Area receipt points set forth in the TFX Service Agreement.
- 1.21. "ROFR" means the right of first refusal provisions in section 52 of the GT&C of Northern's FERC Gas Tariff.
- 1.22. "Security" means the amount of credit assurance required by Northern pursuant to Exhibit D, provided by CenterPoint and held by Northern to secure CenterPoint's obligations to Northern under this Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement.
- 1.23. "SMS Amendment" means the amendment extending the SMS Service Agreement in substantially the same form as that attached hereto as Exhibit C.

- 1.24. "SMS Service Agreement" means the System Management Service Agreement under Contract No. 22569, as amended.
- 1.25. "TBPL Amendment" means the amendment extending the TBPL Service Agreement in substantially the same form as that attached hereto as Exhibit B.
- 1.26. "TBPL Service Agreement" means the TFX Throughput Service Agreement under Contract No. 111461, as amended.
- 1.27. "TFX Service Agreement" means the firm throughput service agreement and amendment in substantially the same form as that attached hereto as Exhibit A which will extend and replace the Existing Service Agreements.

Section 2. TFX Service Agreement, TBPL Amendment, and SMS Amendment

- 2.1. Northern and CenterPoint shall enter into the TFX Service Agreement, the TBPL Amendment and the SMS Amendment, which will be subject to all of the terms and conditions of Northern's FERC Gas Tariff, except specific FERC accepted non-conforming provisions of the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement which are inconsistent with such terms and conditions, in which case the provisions of the service agreements shall control, and all rules and regulations of governmental authorities having jurisdiction and any Necessary Approvals.
- 2.2. The TFX Service Agreement will provide for the transportation of the MDQ from the Primary Receipt Point(s) to the Primary Delivery Point(s). The beginning date and ending date of service under the TFX Service Agreement are set forth in the TFX Service Agreement, subject to any Necessary Approvals, acceptance of such approvals, if necessary, and the completion (as determined in Northern's sole opinion) of the Facilities, if applicable.
- 2.3. CenterPoint shall execute the TFX Service Agreement, the TBPL Amendment and the SMS Amendment without modification, provided the documents tendered are consistent with this Precedent Agreement, within thirty (30) calendar days of tender by Northern.

Section 3. Expansion

- 3.1 The Expansion MDQ is subject to the provisions of Section 4 below and completion of the Facilities.
- 3.2 The rates and terms for the Expansion MDQ will be as set forth in the TFX Service Agreement.
- 3.3 Nothing herein limits CenterPoint's ability to request additional MDQ in accordance with Northern's FERC Gas Tariff.

Section 4. Construction of Facilities

- 4.1 Northern will use commercially reasonable efforts to secure all Necessary Approvals and, subject to the timely receipt of all Necessary Approvals, to construct the Facilities.
- 4.2 At Northern's request, CenterPoint shall file in support of any filing made by Northern to secure any Necessary Approvals and shall provide to Northern any documentation necessary for the filing.
- 4.3 CenterPoint will participate in any Open Season and will bid the applicable MDQ agreed upon and set forth in the TFX Service Agreement. In the alternative, Northern may deem this Precedent Agreement, including the Expansion MDQ, to be a bid in any Open Season. This Precedent Agreement supersedes and replaces CenterPoint's bids in the Northern Lights 2019 Ventura North Open Season.
- 4.4 Upon request by CenterPoint, Northern will provide reasonable verification of any rate and contribution in aid of construction (CIAC) calculation, including facility costs, of the Growth Options. If Northern and CenterPoint disagree as to whether such verification as Northern has offered is reasonable, CenterPoint may pursue the matter in the judicial or regulatory forums set forth in Paragraph 9.3 of this Precedent Agreement, provided such forum has jurisdiction over the Parties.
- 4.5 In exchange for the consideration received hereunder, including without limitation the expected revenue stream from the TFX Service Agreement, Northern is willing to make

the capital expenditures for the Facilities, subject to the conditions outlined in the TFX Service Agreement.

Section 5. Non-Conforming Service Agreement

The combining of the MDQ from the Existing Service Agreements into the TFX Service Agreement, certain provisions of the TFX Service Agreement, and Paragraph 13.3 of this Precedent Agreement are non-conforming provisions. This Precedent Agreement and the TFX Service Agreement will be filed with the FERC as non-conforming agreements. If the FERC deems this Precedent Agreement or the TFX Service Agreement to contain impermissible negotiated terms and conditions, the Parties will renegotiate these agreements to retain the same economic value to both Parties. If the FERC does not find the provisions to be impermissible but accepts the agreements subject to additional conditions, Northern may accept such conditions at its sole discretion. In the alternative, Northern and CenterPoint will renegotiate these agreements to retain the same economic value to both Parties in lieu of Northern accepting such conditions. Both Parties agree to negotiate in good faith and pursue agreements with all commercially reasonable efforts.

Section 6. Market Support

Northern will provide market support payments for CenterPoint's use in promoting load growth served by Northern. Northern will provide (a) \$275,000 on 11/01/2018, and (b) \$300,000 on November 1 of each year beginning 11/01/2019, and ending 11/01/2033.

Section 7. Creditworthiness and Security

- 7.1 CenterPoint must meet the requirements of Section 46 of the GT&C and the Security requirements of Exhibit D hereto.
- 7.2 In the event of any conflict between the security requirements of Exhibit D and the Security requirements of Section 46 of the GT&C, the Security requirements of Exhibit D will prevail.

Section 8. Assignment

This Precedent Agreement, the TFX Service Agreement, the TBPL Amendment and the SMS Amendment will be binding upon and inure to the benefit of CenterPoint and its successors and

assigns and Northern and its successors and assigns. Notwithstanding the foregoing, neither Party may assign or delegate its rights or obligations hereunder without the prior express written consent of the other Party, which will not be unreasonably withheld, and any such purported assignment or delegation without the express written consent of the other Party will be null and void.

Section 9. Governmental Regulations, Choice of Law, Jurisdiction, and Waiver of Jury Trial

- 9.1 This Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement are subject to Northern's FERC Gas Tariff, all valid laws, rules, regulations and orders of any governmental agency or regulatory authority having jurisdiction, including without limitation, the receipt of Necessary Approvals.
- 9.2 AS TO ALL MATTERS OF CONSTRUCTION AND INTERPRETATION, THIS PRECEDENT AGREEMENT WILL BE INTERPRETED, CONSTRUED AND GOVERNED BY THE LAWS OF THE STATE OF NEBRASKA WITHOUT REGARD TO CONFLICT OF LAW PROVISIONS.
- 9.3 THE STATE OR FEDERAL COURTS SITUATED IN THE STATE OF NEBRASKA WILL HAVE EXCLUSIVE JURISDICTION TO RESOLVE ANY DISPUTES WITH RESPECT TO THIS PRECEDENT AGREEMENT, AND CENTERPOINT AND NORTHERN HEREBY IRREVOCABLY CONSENT TO THE JURISDICTION THEREOF FOR ANY ACTIONS, SUITS OR PROCEEDINGS ARISING OUT OF OR RELATING TO THIS PRECEDENT AGREEMENT. NOTWITHSTANDING THE FOREGOING, NOTHING HEREIN SHALL PREVENT THE PARTIES FROM PURSUING RESOLUTION OF DISPUTES AT THE FERC.
- 9.4 TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH, THIS PRECEDENT AGREEMENT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

Section 10. Notices

10.1 Any notices required by this Precedent Agreement will be in writing and addressed to:

- (a) If to CenterPoint:
CERC Contract Administration
P.O. Box 2628
Houston, TX 77252-2628
email: CERCContracts@centerpointenergy.com

- (b) If to Northern:
Customer Service and Business Development
1111 So. 103rd St.
Omaha, Nebraska 68124
email: nngcontracts@nngco.com

10.2 Notices shall be properly served when sent via overnight mail, certified mail, postage prepaid return receipt requested, or when received by email at the email address set forth in this Precedent Agreement. CenterPoint may change its address for the purpose of this Precedent Agreement by giving written notice of such change to Northern. Northern's contact information may be changed by posting revised contact information on its internet website at www.northernnaturalgas.com. This Precedent Agreement will be deemed amended to reflect the revised contact information.

Section 11. Breach and Consequential Damages

- 11.1 Either Party's failure to comply with the terms contained in the TFX Service Agreement, the TBPL Service Agreement, the SMS Service Agreement, the applicable rate schedules, the GT&C, or the terms of this Precedent Agreement is a breach and will constitute a default under this Precedent Agreement. Upon either Party's default, the defaulting Party will be liable for any and all damages at law or in equity hereunder, as accelerated to the date of such breach, including any such rights that may be exercised pursuant to Northern's FERC Gas Tariff.

- 11.2 Each Party will defend, indemnify and save harmless the other Party, its affiliated companies and officers, directors, shareholders, employees, subsidiaries, agents and other

representatives from and against that portion of the liabilities, losses, claims, damages, penalties, causes of action, suits (including suits for personal injuries or death and including reasonable attorneys' fees and expenses) claimed from or against the indemnified Party caused or resulting from the negligence or willful misconduct of the indemnifying Party in the performance of its obligations under the terms of this Precedent Agreement and in the operation of its facilities.

- 11.3 NEITHER PARTY, NOR ITS RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, REPRESENTATIVES, AFFILIATES, SUCCESSORS OR ASSIGNS WILL BE LIABLE TO THE OTHER PARTY FOR ANY INDIRECT, CONSEQUENTIAL, SPECIAL, OR PUNITIVE DAMAGES HOWSOEVER CAUSED, WHETHER ARISING OUT OF CONTRACT, TORT, STRICT LIABILITY, INDEMNITY, WARRANTY, PROFESSIONAL LIABILITY, CONTRIBUTION, OR OTHERWISE.

Section 12. Representation and Warranties

The Parties hereby warrant and represent the following, as applicable:

- 12.1 Northern and CenterPoint are duly organized, validly existing and in good standing under the laws of the jurisdiction of their organization/incorporation and have full power to execute, deliver and perform this Precedent Agreement.
- 12.2 The execution, delivery and performance of this Precedent Agreement have been and remain duly authorized by all necessary corporate or organizational action and do not contravene any provision of law or of Northern's and CenterPoint's constitutional documents or any contractual restriction binding on CenterPoint or its assets.
- 12.3 Except for Necessary Approvals, all consents, authorizations and approvals of, and registrations and declarations with, any governmental authority necessary for the due execution, delivery and performance of this Precedent Agreement, if applicable, have been obtained and remain in full force and effect and all conditions thereof have been duly complied with, and no other action by and no notice to or filing with, any governmental authority is required in connection with Northern's and CenterPoint's execution, delivery or performance of this Precedent Agreement.

- 12.4 CenterPoint's assets, at their respective fair value, exceed CenterPoint's liabilities and CenterPoint has, or will have, sufficient cash and capital to pay its liabilities and obligations as they become due.
- 12.5 In consideration for its execution of this Precedent Agreement, CenterPoint will receive reasonably equivalent value for the obligations that it is assuming as a result of this Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement.
- 12.6 But for the rates and terms agreed to herein, CenterPoint would bypass Northern and serve its markets with an alternative pipeline. CenterPoint agrees to support the rates and terms of the Precedent Agreement, the TFX Service Agreement, the TBPL Amendment and the SMS Amendment as being necessary to retain the load of CenterPoint on Northern's system.

Section 13. Miscellaneous

- 13.1 If the Minnesota Public Utilities Commission deems any non-rate provision of the TFX Service Agreement impermissible prior to 11/01/2019, the Parties will negotiate in good faith to amend or replace the provision prospectively while maintaining the same economic value to both Parties.
- 13.2 The level of service provided to CenterPoint will not be degraded by this Precedent Agreement and the TFX Service Agreement, and Northern will, in fact, strive to provide service that exceeds the expectations of CenterPoint, subject to Northern's FERC Gas Tariff. Northern will meet at least quarterly with CenterPoint, at the request of CenterPoint, to address service issues that may arise during the term of the TFX Service Agreement.
- 13.3 Northern will not file to remove the fuel provision associated with the Waterville Storage delivery point from Northern's FERC Gas Tariff through 10/31/2034.
- 13.4 Northern and CenterPoint will negotiate in good faith the rates and terms effective after 10/31/2034 required for Northern to compete with the economics of a bypass design without regard to the existing contract rates or the recovery of costs associated with the MDQ of the 2019 Discount Area Expansion, the 2019 Out-State Area Expansion, and the 2023 Credit River Expansion.

- 13.5 No provision contained in this Precedent Agreement or the TFX Service Agreement will in any way have the effect of denying to CenterPoint the rights provided to it through applicable laws, regulations or Northern's FERC Gas Tariff to challenge the service Northern provides to CenterPoint or other shippers as being unduly discriminatory or preferential.
- 13.6 This Precedent Agreement may be executed in counterparts, each of which when signed will be deemed an original, but all of which together will constitute one and the same instrument. A signature in "PDF" format or an electronic signature to this Precedent Agreement will be deemed an original and binding upon the Party against which enforcement is sought.
- 13.7 Upon both Parties' execution of the TFX Service Agreement, the TBPL Amendment, and the SMS Amendment, Section 2 and Exhibits A, B, and C of this Precedent Agreement will expire and be superseded by the TFX Service Agreement, the TBPL Amendment, and the SMS Amendment. All remaining sections and paragraphs of this Precedent Agreement and Exhibit D will survive until all obligations or responsibilities under the TFX Service Agreement, the TBPL Amendment, and the SMS Amendment have been fully satisfied, not including any extension as a result of the ROFR process, except that Section 9 and Paragraphs 11.2 and 11.3 will survive for the life of the Facilities.
- 13.8 The Letter Agreement is terminated effective 10/31/2018.
- 13.9 Imaged Documents may be introduced as evidence in any proceeding as if such were original business records and neither Party will contest the admissibility of Imaged Documents as evidence in any proceeding.
- 13.10 Except as provided in Section 5, each provision of this Precedent Agreement will be considered severable so that if any one provision or clause conflicts with or may not be given full effect because of applicable law, this will not affect any other provisions which can be given effect without the conflicting provision or clause and the conflicting provision or clause will be renegotiated by the Parties in good faith to provide equal economic value to both Parties; provided, however, this Paragraph 13.10 will provide no basis to treat the Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement, and the SMS Service Agreement as separate, severable agreements or to effect such a severance.

- 13.11 This Precedent Agreement is not intended to create, and will not be construed to create, a legal relationship of partnership or an association for profit between the Parties hereto. The provisions of this Precedent Agreement will not impart rights of enforceability to any person, firm or organization not a Party or not bound as a Party, or not a permitted successor or assignee of a Party bound by this Precedent Agreement.
- 13.12 Any terms not defined herein will have the meanings set forth in Northern's FERC Gas Tariff. Except as provided in Section 7.2. and any non-conforming provisions accepted by the FERC, any conflicts between this Precedent Agreement and Northern's FERC Gas Tariff will be resolved in favor of Northern's FERC Gas Tariff.
- 13.13 This Precedent Agreement and the TFX Service Agreement are issued in replacement and extension of the Existing Service Agreements and upon their effective dates, any and all obligations previously covered by the Existing Service Agreements will vest in and be subsumed by this Precedent Agreement and the TFX Service Agreement.
- 13.14 This Precedent Agreement together with the TFX Service Agreement, the TBPL Amendment, and the SMS Amendment constitute the entire agreement between Northern and CenterPoint pertaining to the subject matter hereof. In the event of a conflict between a provision of this Precedent Agreement and a provision of a prior agreement, representation or understanding of the Parties, oral or written, the provision of this Precedent Agreement will control. Except as specifically provided in Section 10, no provision of this Precedent Agreement may be amended or waived unless such amendment or waiver is agreed to in writing signed by both Parties.

The Parties hereto have executed this Precedent Agreement to indicate their acceptance.

NORTHERN NATURAL GAS COMPANY CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA
GAS

By: Kurt Miller *jd*

Title: Vice President

Date: 12-20-17

By: S. E. [Signature]

Title: Senior Vice President - Natural Gas Distribution

Date: 12-18-2017

Exhibit A
TFX Service Agreement

Firm Throughput Service Agreement
Rate Schedule TFX

Date: TBD

Shipper's Name and Address for Notices :

CENTERPOINT ENERGY RESOURCES CORP., D/B/A
CENTERPOINT ENERGY MINNESOTA GAS
1111 LOUISIANA ST.
HOUSTON, TX 77002
ATTN: PAULA BOONE

Shipper's Name and Address for Invoices :

CENTERPOINT ENERGY RESOURCES CORP., D/B/A
CENTERPOINT ENERGY MINNESOTA GAS
1111 LOUISIANA ST.
HOUSTON, TX 77002
ATTN: PAULA BOONE

Contract No.: TBD

Term: From 11/01/2018 to 10/31/2034

Rates shall be Northern's maximum rates and charges plus all applicable surcharges in effect from time to time under the applicable Rate Schedule on file with the Commission unless otherwise agreed to by the parties in writing.

This transportation shall be provided pursuant to Subpart G of Part 284 of the Federal Energy Regulatory Commission's regulations.

The contract maximum daily quantities and primary receipt and delivery points are set forth on Appendix A, and if necessary, Appendix B.

If made available by Shipper, Northern agrees to receive and deliver thermally equivalent volumes of natural gas as set forth in this Agreement.

Other Provisions Permitted by Tariff Under the Applicable Rate Schedule and pursuant to Section 58 of the GENERAL TERMS AND CONDITIONS of Northern's FERC Gas Tariff:

TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH, THIS AGREEMENT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED

WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

The parties agree that a facsimile or other electronic version of this document, when properly executed and transmitted, shall be considered for all purposes to be an original document, and shall be deemed for all purposes to be signed and constitute a binding agreement. The entire agreement must be faxed or transmitted to Northern. Upon Northern's acceptance and execution, an executed copy will be returned via FAX to the number appearing on the faxed offer or such other number as directed or otherwise electronically transmitted.

This Agreement constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns. No promises, agreements or warranties additional to this Agreement other than as may be contained in Northern's FERC Gas Tariff will be deemed to be a part of this Agreement nor will any alteration, amendment or modification be effective unless confirmed in writing by the parties.

Any notice, statement, or bill provided for in this Agreement shall be in writing and shall be considered as having been given if delivered personally, or if mailed by United States mail, postage prepaid, or if sent by express mail, overnight delivery, telex, telecopy or other mutually agreeable means of electronic transmission, to Shipper when sent to the address set forth on this Agreement and to Northern when sent to the following:

All Notices/Accounting Matters:

Northern Natural Gas Company
1111 S. 103rd Street
Omaha, Nebraska 68124-1000
Attn: Customer Services
Fax No.: 402-548-5280

Payments to Designated Depository:

Northern Natural Gas Company
U.S. Bank National Association
Account No. 105700973255
ABA No. 104000029
1700 Farnam Street
Omaha, Nebraska 68102

This Agreement shall incorporate and in all respects shall be subject to the GENERAL TERMS AND CONDITIONS and the applicable Rate Schedule(s) set forth in Northern's FERC Gas Tariff, as may be revised from time to time. Northern may file and seek Commission approval under Section 4 of the Natural Gas Act (NGA) at any time and from time to time to change any rates, charges or other provisions set forth in the applicable Rate Schedule(s) and the GENERAL TERMS AND CONDITIONS in Northern's FERC Gas Tariff, and Northern shall have the right to place such changes in effect in accordance with the NGA, and this Throughput Service Agreement shall be deemed to include such changes and any changes which become effective by operation of law and Commission Order, without prejudice to Shipper's right to protest the same.

NORTHERN NATURAL GAS COMPANY

CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA GAS

By: Exhibit – Do not Execute

By: Exhibit – Do not Execute

Title: _____

Title: _____

Date: _____

Date: _____

NORTHERN NATURAL GAS COMPANY
Amendment to TFX Throughput Service Agreement

Date: TBD

Shipper Name: CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas

Contract No.: TBD (Agreement)

Amendment No. 1

The above referenced Agreement extends and replaces, effective November 1, 2018, in their entirety, all agreements pertaining to the transportation service provided under TFX Throughput Service Agreement Nos. 111464, 111697 and 129533 and TF Throughput Service Agreement Nos. 111463 and 127357 between Northern and Shipper, except for the Precedent Agreement dated 12/05/2017 (Contract No. 602204) between Northern and Shipper (Precedent Agreement).

The above referenced Agreement is amended as follows:

1. The MDQ set forth in Attachments A-3, A-4, and A-5 and the Growth MDQ, as defined in Paragraph 3.e., is subject to the construction of the Facilities, as defined in the Precedent Agreement, necessary to provide the service set forth herein. Northern will use commercially reasonable efforts to secure all Necessary Approvals, as defined in the Precedent Agreement, required and to construct the Facilities required to meet its obligations under this Agreement.
2. For the period beginning 11/01/2018 and ending 10/31/2034, the rate provisions are amended as follows:
 - a. Shipper shall pay the reservation rates set forth below:
 - i. For the MDQ set forth in Attachment A-1 (Discounted MDQ), the rates are set forth in Attachment A-1 (Discounted Rates).
 - ii. For the MDQ set forth in Attachment A-2 (Capped Rate MDQ), the rates are the maximum TFX reservation rates set forth in Northern's FERC Gas Tariff, as revised from time to time (Maximum TFX Reservation Rates). However, the annual reservation revenue received by Northern for the Capped Rate MDQ (Annual Revenue) during any annual period of November through October will not exceed \$36.8 million beginning 11/01/2018 and ending 10/31/2023, \$39.3 million beginning 11/1/2023 and ending 10/31/2028, and \$41.7 million beginning 11/01/2028 and ending 10/31/2034 (Annual Revenue Cap). The Annual Revenue does not include (A) revenues associated with any Capped Rate MDQ that is permanently released pursuant to the capacity release provisions of Northern's

FERC Gas Tariff, subsequent to the date of the release, (B) revenues associated with any Capped Rate MDQ that has been reduced by Shipper pursuant to Paragraph 3.h. or Northern's FERC Gas Tariff, subsequent to the date of the reduction, and (C) revenues collected as a result of Paragraph 2.h.

- iii. For the MDQ set forth in Attachment A-3 (2019 Discount Area Expansion MDQ), the rates are the Discounted Rates.
 - iv. For the MDQ set forth in Attachment A-4 (2019 Out-State Area Expansion MDQ), the rates are the Maximum TFX Reservation Rates.
 - v. For the MDQ set forth in Attachment A-5 (2023 Credit River Expansion MDQ), the rates are the Discounted Rates.
 - vi. If applicable, for the Growth MDQ, the rates are set forth in Paragraph 3.e.
- b. In addition, Shipper shall pay all FERC-approved reservation surcharges subject to the following conditions:
- i. The Discounted Rates include all Northern-specific reservation surcharges unless Northern, at its sole discretion, elects to discount the applicable Northern-specific reservation surcharges in order to provide equal economic value to Shipper.
 - ii. Shipper shall pay all reservation surcharges not specific to Northern in addition to the Discounted Rates.
 - iii. Shipper shall pay all Northern-specific reservation surcharges applicable to the Capped Rate MDQ, and such surcharges will be included in determining whether the Annual Revenue exceeds the Annual Revenue Cap. In the event that the Annual Revenue Cap is exceeded, Northern, at its sole discretion, will discount the rates on the Capped Rate MDQ and/or discount the applicable Northern-specific reservation surcharges until the Annual Revenue equals the Annual Revenue Cap.
 - iv. Shipper shall pay all reservation surcharges not specific to Northern in addition to the rates for the Capped Rate MDQ and such surcharges will not be included in determining whether the Annual Revenue exceeds the Annual Revenue Cap.
- c. In addition, for all quantities delivered pursuant to this Agreement, Shipper shall:
- i. Pay a commodity rate equal to the maximum commodity rate provided in Northern's FERC Gas Tariff and all FERC-approved commodity surcharges; and

- ii. Provide any applicable fuel use and unaccounted for.
- d. The Discounted Rates are applicable to the following points (Discounted Point(s)):
 - i. The Market Area receipt points listed in Attachments A-1, A-3 and A-5 for receipts on a primary basis up to the cumulative MDQ at each receipt point as set forth in Attachments A-1, A-3 and A-5;
 - ii. The Market Area delivery points listed in Attachments A-1, A-3 and A-5 for deliveries on a primary or alternate basis;
 - iii. All Market Area receipt points for receipts on an alternate basis; and
 - iv. Shipper's Zone EF and Market Area deferred delivery points for ultimate delivery to the points listed in Attachments A-1, A-3 and A-5.
- e. If on any day or days in a month, Shipper uses any of the MDQ at the Discounted Rates for delivery to a point(s) inside of Shipper's Zone EF which is not a Discounted Point, the Discounted Rates will not apply to the quantity delivered to such point(s) during the month. In such event, Northern's Maximum TFX Reservation Rates will apply to the highest daily quantity of the MDQ at the Discounted Rates delivered to such point(s) during the month (Highest Day Entitlement) for the entire month. To the extent the MDQ at the Discounted Rates is not used at the Discounted Points, such MDQ must remain unused in order to avoid being subject to the Highest Day Entitlement determination.
- f. If on any day or days in a month, Shipper uses any of the MDQ at the Discounted Rates for delivery to a point(s) outside of Shipper's Zone EF, the Discounted Rates will not apply to the quantity delivered to such point(s) during the month. In such event, Northern's Maximum TFX Reservation Rates will apply to such Highest Day Entitlement for the entire month plus the four following months of the same or like season (November through March, or April through October). For example, if MDQ at the Discounted Rates is delivered to a point outside of Shipper's Zone EF during the month of February 2019, Northern's Maximum TFX Reservation Rates will apply to the Highest Day Entitlement for the months of February, March, November and December of 2019, and January of 2020. To the extent the MDQ at the Discounted Rates is not used at the Discounted Points, such MDQ must remain unused in order to avoid being subject to the Highest Day Entitlement determination.
- g. If the effective rates charged for the Capped Rate MDQ are below Northern's Maximum TFX Reservation Rates as a result of reaching the Annual Revenue Cap, the rates for the Capped Rate MDQ will be applicable to the following points (Capped Point(s)):

- i. The Market Area receipt points listed in Appendices A and B for receipts on a primary basis up to the MDQ at each receipt point as set forth in Appendices A and B;
 - ii. The Market Area delivery points in Shipper's Zone EF for deliveries on a primary and alternate basis;
 - iii. All Market Area receipt points for receipts on an alternate basis; and
 - iv. Shipper's Zone EF and Market Area deferred delivery points for ultimate delivery to the points listed in Shipper's Zone EF.
- h. If on any day or days in a month, the effective rates charged for the Capped Rate MDQ are below Northern's Maximum TFX Reservation Rates as a result of reaching the Annual Revenue Cap and Shipper uses any of the Capped Rate MDQ for delivery to a point(s) outside of Shipper's Zone EF, the reduced rates for the Capped Rate MDQ will not apply to the quantity delivered to such point(s) during the month. In such event, Northern's Maximum TFX Reservation Rates will apply to such Highest Day Entitlement for the entire month plus the four following months of the same or like season (November through March, or April through October). For example, if Capped Rate MDQ is delivered to a point outside of Shipper's Zone EF during the month of February 2019, Northern's Maximum TFX Reservation Rates will apply to the Highest Day Entitlement for the months of February, March, November and December of 2019, and January of 2020. To the extent the Capped Rate MDQ is not used at the Capped Points, such Capped Rate MDQ must remain unused in order to avoid being subject to the Highest Day Entitlement determination.
- i. The applicability of Paragraphs 2.e., f., and h. will be determined by Northern based on the assumption that Shipper will nominate its deliveries in such a manner as to mitigate the applicability of the rate impact of its use of alternate delivery points. Shipper will provide twice monthly on or about the 15th and 30th of each month, the daily detail associated with other shippers' deliveries at the Discounted Points necessary for Northern to determine the applicability of Paragraphs 2.e., f., and h.
- j. In the event of a realignment, reduction, or permanent release of any portion of the Discounted MDQ, the Capped Rate MDQ, the 2019 Discount Area Expansion MDQ, the 2019 Out-State Area Expansion MDQ, the 2023 Credit River Expansion MDQ and the Growth MDQ (Total MDQ):
- i. The reservation rates for the realigned MDQ will be amended as detailed in Attachment B;

- ii. Shipper shall promptly provide any applicable reimbursement detailed in Attachment B for the realigned, reduced or permanently released MDQ (Reimbursement).
- k. Shipper shall pay a discounted overrun rate of \$0.2500/Dth/day for up to 15,000 Dth/day of overrun service to the Discounted Points.
- l. In no event shall the rates exceed the maximum rate or be less than the minimum rate authorized under Northern's FERC Gas Tariff, as revised from time to time. In the event the rates agreed to pursuant hereto are or become greater than the maximum or less than the minimum under Northern's FERC Gas Tariff, as revised from time to time, then Shipper agrees that Northern will immediately decrease the rate(s) herein down to the maximum or increase the rate(s) herein up to the minimum. In such event, other rate components may be adjusted upward or downward to achieve the agreed-upon overall revenue, provided that the resulting rate component shall not exceed the maximum rate or be below the minimum rate applicable to the rate component.
- 3. The paragraph of the Agreement entitled "Other Provisions Permitted by Tariff Under the Applicable Rate Schedule and pursuant to Section 58 of the GENERAL TERMS and CONTIDIONS of Northern's FERC Gas Tariff" is amended to add the following paragraphs:
 - a. Reservation Charge Credits. With the exceptions listed in Paragraphs 3.a.i. through 3.a.iv. below, reservation charge credits will be calculated as specified in Northern's FERC Gas Tariff; however, in order to receive reservation charge credits, Shipper must use commercially reasonable efforts to minimize the applicability of reservation charge credits by serving its markets through other available delivery points.
 - i. Reservation charge credits for the Discounted MDQ will be reduced by \$0.085/Dth/day during the months of November through March and \$0.026/Dth/day during the months of April through October.
 - ii. Reservation charge credits will not be provided for the 2019 Discount Area Expansion MDQ, the 2019 Out-State Area Expansion MDQ, and the 2023 Credit River Expansion MDQ through 10/31/2034.
 - iii. Reservation charge credits will not be provided for the Growth MDQ, for the first ten years following the applicable in-service date.
 - iv. For the purpose of reservation charge credits, any flows through the applicable delivery points will be deemed to be in the following order: (A) Capped Rate MDQ; (B) Discounted MDQ; (C) Growth MDQ; (D) 2019 Out-State Expansion MDQ; (E) 2019 Discount Area Expansion MDQ; and (F) 2023 Credit River Expansion MDQ.

b. Pressure.

- i. Northern will provide the pressure guarantees listed in Attachment C at the applicable delivery points (Pressure Point(s)). The pressure guarantee is applicable for usage up to the firm MDQ contracted at the applicable Pressure Point by all shippers (Pressure MDQ) and deliveries within the hourly take provisions of Northern's FERC Gas Tariff at each Pressure Point. The pressure guarantees are subject to Shipper's other points on the same branch line staying within the respective Pressure MDQ levels at such other points and is not applicable in the event of Force Majeure, as defined in Northern's FERC Gas Tariff, or during periods of maintenance on Northern's facilities that impact the pressure at the applicable Pressure Point.
- ii. Northern will use commercially reasonable efforts to operate its system, including existing mainline and branch line facilities with all available and applicable compression in service, to provide the delivery pressures in Attachment C at the Pressure Points without regard to the Pressure MDQ at these Pressure Point(s). Shipper understands and agrees that Northern's commitment with regard to maintaining delivery pressures for quantities above Pressure MDQ in no way causes interruptible service to be treated as firm service. Northern retains the right to allocate its system and any points thereon to firm MDQ as it deems operationally necessary. Northern is under no obligation to modify its physical facilities or to refrain from selling firm capacity to ensure the delivery pressures for quantities above the Pressure MDQ. Shipper agrees that it will curtail interruptible customers on its system at Northern's request to maintain Northern's system integrity and to ensure maintenance of the pressure guarantees set forth in Attachment C.
- iii. Northern and Shipper agree to work together to accommodate pressure requests lower than the pressures guaranteed pursuant to Paragraph 3.b.i. above during the months of April through October.
- iv. Requests for delivery pressures in excess of the guaranteed pressures will be accommodated to the extent they can be provided at no cost to Northern subject to the physical capabilities of Northern's system and Northern's contractual commitments.
- v. Northern will provide future pressure guarantees, as requested by Shipper, subject to the physical capabilities of Northern's system and Northern's contractual commitments. If the system is not capable of accommodating the requested pressure guarantee, Shipper will reimburse Northern for the cost of installing facilities to provide the pressure guarantee. In the event reimbursement is required from Shipper, such reimbursement may be in the form of a contribution in aid of construction (CIAC) based on the Actual Costs, or another mutually agreeable

method of reimbursement. "Actual Costs" means Shipper's allocated share of the cost of facilities constructed to provide service, including, but not limited to, (i) planning, design, materials, labor, contract and engineering costs; (ii) overheads; (iii) all applicable taxes, (iv) income tax gross up, when applicable; (v) allowance for funds used during construction (AFUDC), when applicable; (vi) associated operation and maintenance costs; and (vii) any reservation charge credits, as defined in Northern's FERC Gas Tariff, paid to other shippers by Northern as a result of any outage caused by the construction of the facilities.

c. Right of First Refusal. All MDQ, including any discounted MDQ, is subject to the Right of First Refusal provided in Section 52 of the General Terms and Conditions of Northern's Tariff.

d. Full Requirements.

- i. In consideration for Northern agreeing to the rates contained herein, Shipper represents and warrants that for the term of this Agreement, Northern shall serve Shipper's full service requirements in Shipper's (or successor(s) thereto) service territories currently served by the Total MDQ except as provided in Paragraph 3.d.iii. below.
- ii. In consideration for Northern agreeing to the rates contained herein, Shipper represents and warrants that it will not bypass or pursue a bypass of Northern in any of Shipper's service territories served by the Total MDQ for the term of this Agreement, except as provided in Paragraph 3.d.iii. below.
- iii. Notwithstanding the obligations under Paragraphs 3.d.i. and 3.d.ii. above, Shipper may serve current and future loads (A) up to a combined total of 100,000 Dth/day on the existing Minnesota Intrastate Pipeline and/or the Viking Gas Transmission Pipeline to markets also served by Northern's system, (B) up to 230,000 Dth/day from existing or new Liquefied Petroleum Gas peak shaving plants, and (C) up to 72,000 Dth/day from Shipper's existing liquefied natural gas plant. However, Shipper may not reduce the Total MDQ, except through capacity release or through the reduction rights provided in Paragraph 3.h. below and Northern's FERC Gas Tariff.

e. Growth Options.

- i. Subject to receipt of any necessary regulatory approvals and completion of any necessary Northern construction, Shipper may purchase incremental MDQ of up to 50,000 Dth/day during the months of November through March and at least 60 percent of the elected November through March MDQ during the months of April through October from any receipt point in Northern's Market Area to any existing delivery point in Shipper's Zone EF effective 11/01/2021, and every two-

year period thereafter through 11/1/2033, (Growth MDQ) by delivering written notice to Northern twenty-four months prior to November 1 of each applicable two-year period. Subject to approval by Northern, Shipper may request reduction of the Growth MDQ submitted by providing Northern written notice at least eighteen months prior to the applicable November 1. Northern will determine, at its sole discretion, if accepting the request would have any potential negative impacts on planned projects or filings within 30 days. If it is determined that no negative impacts would result, Northern will approve the request. If it is determined that negative impacts would result, Northern will provide an explanation of the potential negative impacts and identify which portions of the request, if any, could be accommodated without potential negative impacts. The Growth MDQ at each point will have the same MDQ each month for the months of November through March and the same MDQ of at least 60 percent of the November through March MDQ for each month of the months of April through October. The Growth MDQ must be purchased for a minimum term of ten (10) years.

- ii. The reservation rate charged for the Growth MDQ at Discounted Points will be the applicable Discounted Rates. The reservation rate charged for Growth MDQ at points other than Discounted Points will be the Maximum TFX Reservation Rates. In addition, Shipper shall pay Northern's maximum commodity rates and applicable surcharges. If the Discounted Rates or the Maximum TFX Reservation Rates, as applicable, do not support the return of investment for the Actual Costs associated with the Growth MDQ and a 9.4% after-tax return on the investment for the Actual Costs associated with the Growth MDQ over a 10-year period, the portion of the Actual Costs not supported by the applicable rates will be reimbursed to Northern through a CIAC. Alternatively, the Growth MDQ may be placed on a separate TFX firm throughput service agreement with a negotiated rate based on the capital recovery calculation provided above in this Paragraph 3.e.ii.
- iii. Growth MDQ at individual delivery points is limited to the greater of 5,000 Dth/day or 10% of the existing MDQ at the point. Shipper may request up to two new points located within the state of Minnesota for each two-year period.
- iv. The Growth MDQ is not cumulative from one two-year period to another.
- v. Northern agrees that, on a case by case basis, it will consider in good faith whether it could accommodate Growth MDQ on less than the twenty-four months' prior notice set forth in Paragraph 3.e.i. above.
- vi. Attachment B will be revised to reflect elected Growth MDQ and applicable Reimbursement for realignments, reductions, and permanent capacity releases.

f. **Most Favored Nations.** To the extent Northern provides a Most Favored Nations provision (a provision in which Northern agrees to give a shipper the best terms it makes available to any other shipper) in the future to any shipper in the Market Area during the Term of the TFX Service Agreement (not including any extension as a result of the ROFR process), Northern will provide a similar provision to Shipper.

g. **Flow Order.** On any day that Northern has required shippers to flow gas at Carlton pursuant to Section 29 of the General Terms & Conditions of Northern's FERC Gas Tariff, to assure deliveries of the full MDQ on the St. Cloud branch line under this Agreement, Shipper must flow 4,802 Dth/day at the primary receipt point of Viking/NNG Pierz Interconnect (POI 61667). It is Shipper's obligation to ensure receipts into Northern's system at the Viking/NNG Pierz Interconnect.

h. **Reduction Rights.** In addition to the reduction rights included in Northern's Tariff, in the event Shipper experiences a verifiable load loss, as determined below, Shipper may reduce its firm MDQ by an amount not to exceed a total of 50,000 Dth/day over the term of the Agreement, subject to the following:

- i. To qualify for a reduction for a verifiable load loss, Shipper must provide an affidavit signed by an officer of the Shipper detailing the load loss and confirming that (1) the load is permanently lost and was being served by Shipper's firm MDQ on Northern; and (2) the MDQ reduction would not result in Shipper having a reserve margin on Northern of less than 5%.
- ii. Reductions will not be allowed if the load lost is being served either directly or indirectly through (1) an alternate pipeline supplier; (2) increased peak shaving capacity (e.g., propane peak shaving, liquefied natural gas peak shaving); (3) an upstream supplier for a non-incremental service on Northern (e.g., capacity release); and/or (4) interruptible service on Northern (i.e., TI); provided, that in the event the hardship reduction rights set forth in Northern's Tariff are applicable, such tariff provisions will apply notwithstanding the reduction right set forth in this paragraph.
- iii. Shipper shall promptly provide any applicable Reimbursement(s) for the reduced MDQ as detailed in Attachment B.
- iv. Subject to capacity availability, for a delivery point where Shipper experienced load loss Shipper will have the right to realign excess MDQ to other delivery points of Shipper in order to avoid stranded MDQ at the original delivery point; provided, however, realigned MDQ shall have rates as specified in Attachment B, Table B-1, as provided in Paragraph 2.j. above.

4. This Agreement and the Precedent Agreement will be filed as non-conforming service agreements. If the FERC deems the agreements to contain impermissible negotiated terms and conditions, the parties will renegotiate the provisions to retain the same economic value to both parties. If the FERC does not find the terms and conditions to be impermissible but accepts the agreements subject to conditions, Northern may accept such conditions at its sole discretion. In the alternative, Northern and Shipper shall negotiate this Agreement and the Precedent Agreement to provide each party the same economic value associated with such provision(s) in lieu of Northern accepting such conditions. Both parties agree to negotiate in good faith and pursue agreements with all commercially reasonable efforts.

5. The parties agree that a facsimile or other electronic version of this document, when properly executed, transmitted, and received shall be considered for all purposes to be an original document, and shall be deemed for all purposes to be signed and constitute a binding agreement. The entire agreement must be faxed or transmitted to Northern. Upon Northern's acceptance and execution, an executed copy will be returned via FAX to the number appearing on the faxed offer or such other number as directed or otherwise electronically transmitted.

6. This Agreement, as amended, and the surviving provisions of the Precedent Agreement constitute the entire agreement between the parties with respect to the subject matter of this Agreement and shall be binding upon and shall inure to the benefit of the parties hereto and the respective successors and assigns. No promises, agreements or warranties additional to this Agreement other than as may be contained in Northern's tariff and the Precedent Agreement will be deemed to be a part of this Agreement nor will any alteration, amendment or modification be effective unless confirmed in writing by the parties.

The effective date of this Amendment is 11/01/2018.

Except as amended herein, all provisions of the Agreement are hereby confirmed by the parties to be and remain in full force and effect.

NORTHERN NATURAL GAS COMPANY

CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA GAS

By: Exhibit – Do not Execute

By: Exhibit – Do not Execute

Title: _____

Title: _____

Date: _____

Date: _____

Attachment A-1: Discounted MDQ and Discounted Rates

Receipts and Delivery Points Beginning 11/01/2018 and Ending 10/31/2019

Receipt Points:

POI	Point Name	November through March	April and October	May through September
922	CENTERPOINT/NNG WATERVILLE WITHDRAWAL	50,000	-	-
388	GRLKS/NNG CARLTON	47,469	-	-
60229	NBPL/NNG GRUNDY CENTER	2,136	-	-
192	NBPL/NNG VENTURA	396,275	272,871	272,871
1665	NBPL/NNG WELCOME	19,150	18,463	18,463
197	NGPL/NNG GLENWOOD	75,000	-	-
37654	NNG FIELD/MKT DEMARCATION-16B	224,774	179,443	179,443
1318	TBPL/NNG BEATRICE	50,000	50,000	50,000
196	VIKING CHISAGO/ISANTI	16,439	9,807	9,807
61667	VINKING/NNG PIERZ INTER	3,063	-	-
Total Discounted MDQ Receipts		884,306	530,584	530,584

Delivery Points:

POI	Point Name	November through March	April and October	May through September
2295	ANOKA MN #1	25,988	15,593	15,593
3137	ANOKA MN #1A	8,492	5,095	5,095
2296	BLAINE MN #1	7,963	4,778	4,778
3140	BLAINE MN #1A	11,144	6,686	6,686
3146	CAMBRIDGE MN #1	4,775	2,865	2,865
2294	COON RAPIDS MN #1	18,445	11,067	11,067
78860	CORCORAN MN #1	40,000	24,000	24,000
3153	DAYTON MN #1	33,484	20,090	20,090
3154	ELK RIVER MN #1	6,971	4,183	4,183
3156	ELK RIVER MN #1B	2,032	1,219	1,219
3158	ELK RIVER MN #3	2,000	1,200	1,200
22020	HAM LAKE MN #1	9,097	5,458	5,458
3161	ISANTI MN #1	1,696	1,018	1,018
1328	JORDAN MN #2	2,632	1,579	1,579
3163	LEXINGTON MN #1	11,339	6,803	6,803
1347	LITTLE FALLS MN #1	4,733	2,840	2,840
1373	MANKATO MN #1	9,802	5,881	5,881
2775	MANKATO MN #1A	15,575	9,345	9,345
79305	MANKATO MN #1A-S	1,358	815	815
1436	MINNEAPOLIS MN #1D	176,040	105,625	105,625
1442	MINNEAPOLIS MN #1G	13,622	8,173	8,173
1450	MINNEAPOLIS MN #1H	1,000	600	600
12933	MINNEAPOLIS MN #1K	4,811	2,887	2,887
1455	MINNEAPOLIS MN #1P	101,603	60,962	60,962
2774	MINNEAPOLIS MN #1Q	190,945	114,567	114,567
1462	MINNEAPOLIS MN #1R	107,417	64,450	64,450
56628	MINNETRISTA MN #1	21,849	13,109	13,109
1470	MONTGOMERY MN #1	1,338	803	803
1456	NEW PRAGUE MN #1	2,461	1,477	1,477
79308	NEW PRAGUE MN #1-S	2,000	1,200	1,200
3167	PRINCETON MN #1	3,035	1,821	1,821
1480	PRIOR LAKE MN #1	7,415	4,449	4,449
12934	PRIOR LAKE MN #1A	1,489	893	893
2141	SAVAGE MN #1E	9,056	5,434	5,434
3170	SPRING LAKE PARK MN #1	6,717	4,030	4,030
12935	ST. MICHAEL MN #1A	4,888	2,933	2,933
1440	ST. PETER MN #1	4,389	2,633	2,633
79309	ST. PETER MN #1-S	2,500	1,500	1,500
22019	ZIMMERMAN MN #1	4,205	2,523	2,523
Total Discounted MDQ Deliveries		884,306	530,584	530,584

Attachment A-1: Discounted MDQ and Discounted Rates (Continued)

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Receipt Points:

POI	Point Name	November Through March	April And October	May Through September
922	CENTERPOINT/NNG WATERVILLE WITHDRAWAL	50,000	-	-
388	GRILKS/NNG CARLTON	47,469	-	-
60229	NBPL/NNG GRUNDY CENTER	2,136	-	-
192	NBPL/NNG VENTURA	397,697	273,724	273,724
1665	NBPL/NNG WELCOME	19,150	18,463	18,463
197	NGPL/NNG GLENWOOD	75,000	-	-
37654	NNG FIELD/MKT DEMARCATION-16B	224,774	179,443	179,443
1318	TBPL/NNG BEATRICE	50,000	50,000	50,000
196	VIKING CHISAGO/ISANTI	16,439	9,807	9,807
61667	VINKING/NNG PIERZ INTER	3,063	-	-
Total Discounted MDQ Receipts		885,728	531,437	531,437

Delivery Points:

POI	Point Name	November through March	April and October	May through September
2295	ANOKA MN #1	25,988	15,593	15,593
3137	ANOKA MN #1A	8,492	5,095	5,095
2296	BLAINE MN #1	7,963	4,778	4,778
3140	BLAINE MN #1A	11,144	6,686	6,686
3146	CAMBRIDGE MN #1	4,775	2,865	2,865
2294	COON RAPIDS MN #1	18,445	11,067	11,067
78860	CORCORAN MN #1	40,000	24,000	24,000
3153	DAYTON MN #1	33,484	20,090	20,090
3154	ELK RIVER MN #1	6,971	4,183	4,183
3156	ELK RIVER MN #1B	2,032	1,219	1,219
3158	ELK RIVER MN #3	2,000	1,200	1,200
22020	HAM LAKE MN #1	9,097	5,458	5,458
3161	ISANTI MN #1	1,696	1,018	1,018
1328	JORDAN MN #2	4,054	2,432	2,432
3163	LEXINGTON MN #1	11,339	6,803	6,803
1347	LITTLE FALLS MN #1	4,733	2,840	2,840
1373	MANKATO MN #1	9,802	5,881	5,881
2775	MANKATO MN #1A	15,575	9,345	9,345
79305	MANKATO MN #1A-S	1,358	815	815
1436	MINNEAPOLIS MN #1D	176,040	105,625	105,625
1442	MINNEAPOLIS MN #1G	13,622	8,173	8,173
1450	MINNEAPOLIS MN #1H	1,000	600	600
12933	MINNEAPOLIS MN #1K	4,811	2,887	2,887
1455	MINNEAPOLIS MN #1P	101,603	60,962	60,962
2774	MINNEAPOLIS MN #1Q	190,945	114,567	114,567
1462	MINNEAPOLIS MN #1R	107,417	64,450	64,450
56628	MINNETRISTA MN #1	21,849	13,109	13,109
1470	MONTGOMERY MN #1	1,338	803	803
1456	NEW PRAGUE MN #1	2,461	1,477	1,477
79308	NEW PRAGUE MN #1-S	2,000	1,200	1,200
3167	PRINCETON MN #1	3,035	1,821	1,821
1480	PRIOR LAKE MN #1	7,415	4,449	4,449
12934	PRIOR LAKE MN #1A	1,489	893	893
2141	SAVAGE MN #1E	9,056	5,434	5,434
3170	SPRING LAKE PARK MN #1	6,717	4,030	4,030
12935	ST. MICHAEL MN #1A	4,888	2,933	2,933
1440	ST. PETER MN #1	4,389	2,633	2,633
79309	ST. PETER MN #1-S	2,500	1,500	1,500
22019	ZIMMERMAN MN #1	4,205	2,523	2,523
Total Discounted MDQ Deliveries		885,728	531,437	531,437

Attachment A-1: Discounted MDQ and Discounted Rates (Continued)

Discounted Rates

Period	November through March \$/Dth/month	April And October \$/Dth/month	May Through September \$/Dth/month
11/01/2018 through 10/31/2019	\$8.2606	\$2.3604	\$2.3604
11/01/2019 through 10/31/2020	\$11.8382	\$3.4442	\$3.4442
11/01/2020 through 10/31/2021	\$12.7641	\$3.7079	\$3.7079
11/01/2021 through 10/31/2022	\$13.6899	\$3.9716	\$3.9716
11/01/2022 through 10/31/2023	\$13.7147	\$3.9787	\$3.9787
11/01/2023 through 10/31/2034	\$13.7365	\$3.9840	\$3.9840

Attachment A-2: Capped Rate MDQ

Receipts and Delivery Points Beginning 11/01/2018 and Ending 10/31/2019

Receipt Points:

POI	Point Name	November through March	April and October	May through September
388	GRLKS/NNG CARLTON	19,894	985	985
204	NBPL/NNG MARSHALL	3,489	660	660
192	NBPL/NNG VENTURA	95,994	58,206	58,206
1665	NBPL/NNG WELCOME	18,681	6,250	6,250
197	NGPL/NNG GLENWOOD	25,000	50,000	-
37654	NNG FIELD/MKT DEMARCATION-16B	74,925	27,304	77,304
196	VIKING CHISAGO/ISANTI	1,599	1,599	1,599
61667	VINKING/NNG PIERZ INTER	5,714	2,174	2,174
Total Capped Rate MDQ Receipts		245,296	147,178	147,178

Delivery Points:

POI	Point Name	November through March	April and October	May through September
1236	ALBANY MN #1	882	529	529
1241	ALEXANDRIA MN #1	11,207	6,724	6,724
1955	AMBOY MN #1	317	190	190
53956	ANNANDALE (MALCO MANUFACTURING)	35	21	21
3136	ANNANDALE MN #1	3,440	2,064	2,064
1243	ARLINGTON MN #1	1,009	605	605
1247	ATWATER MN #1	1,898	1,139	1,139
22017	AVON - ST. JOHN MN #1	1,478	887	887
1248	BELLE PLAINE MN #1	2,702	1,621	1,621
79306	BELLE PLAINE MN #1-S	275	165	165
1251	BENSON MN #1	4,365	2,619	2,619
3138	BIG LAKE MN #1	4,564	2,738	2,738
3139	BIG LAKE MN #2	461	277	277
1252	BLUE EARTH MN #1	2,255	1,353	1,353
3143	BRAHAM MN #1	723	434	434
1255	BRAINERD MN #1	11,371	6,823	6,823
1256	BROWERVILLE MN #1	409	245	245
61633	BUCKMAN MN #1	208	125	125
3144	BUFFALO MN #1	7,530	4,518	4,518
57419	CAMBRIDGE #4 (WILLIAM KAST)	6	4	4
3147	CAMBRIDGE MN #1A	37	22	22
3148	CAMBRIDGE MN #2	42	25	25
57837	CENTERVILLE MN #1	2,914	1,748	1,748
1261	CLEVELAND MN #1	264	158	158
1262	COATES MN #1	1,196	718	718
1268	COKATO MN #1	1,420	852	852
1274	COLD SPRING MN #1	2,942	1,765	1,765
1271	COLOGNE MN #1	2,265	1,359	1,359
1276	CYRUS MN #1	157	94	94
1277	DASSELL MN #1	792	475	475
1278	EAGLE LAKE MN #1	612	367	367
79307	EAGLE LAKE MN #1-S	1,000	600	600
1279	FREEPORT MN #1	608	365	365
1282	GAYLORD MN #1	1,700	1,020	1,020
1287	GLENCOE MN #1	3,269	1,961	1,961
1289	GLENWOOD MN #1	2,187	1,312	1,312
3159	GRANDY MN #1	65	39	39
3160	GRASSTON MN #1	135	81	81
1292	GROVE CITY MN #1	395	237	237
1294	HANCOCK MN #1	353	212	212
1296	HARTLAND MN #1	168	101	101
1303	HASTINGS MN #1	13,445	8,067	8,067
15721	HASTINGS MN #1A	445	267	267

Attachment A-2: Capped Rate MDQ (Continued)

Receipts and Delivery Points Beginning 11/01/2018 and Ending 10/31/2019

Delivery Points (Continued):

POI	Point Name	November through March	April and October	May through September
22927	HASTINGS MN #1B (COTTAGE GROVE)	377	226	226
1312	HASTINGS MN #1C	5,283	3,170	3,170
1956	HECTOR MN #1	799	479	479
1316	HOWARD LAKE MN #1	1,381	829	829
1319	IHLEN MN #1	45	27	27
1322	JANESVILLE MN #1	1,044	626	626
1323	JASPER MN #1	354	212	212
1326	JORDAN MN #1	1,422	853	853
3162	KIMBALL MN #1	417	250	250
1330	LAKE CRYSTAL MN #1	969	581	581
1332	LAKE CRYSTAL MN #2	84	50	50
61632	LASTRUP MN #1	3,732	2,239	2,239
1334	LE CENTER MN #1	1,188	713	713
1342	LESTER PRAIRIE MN #1	913	548	548
1336	LE SUEUR MN #1	2,832	1,699	1,699
1345	LEWISVILLE MN #1	165	99	99
3164	LEXINGTON MN #1A	5,131	3,079	3,079
1346	LITCHFIELD MN #1	3,679	2,207	2,207
1353	LITTLE FALLS MN #1A	89	53	53
1355	LONG PRAIRIE MN #1	2,106	1,264	1,264
1354	LONSDALE MN #1	2,485	1,491	1,491
1356	LOWRY MN #1	218	131	131
1358	LUVERNE MN #1	2,104	1,262	1,262
1359	MADELIA MN #1	1,501	901	901
3165	MAPLE LAKE MN #1	1,913	1,148	1,148
25969	MAYER MN 1	2,635	1,581	1,581
1401	MEDFORD MN #1	581	349	349
1405	MELROSE MN #1	1,597	958	958
25968	MINNEAPOLIS MN #1E	5,700	3,420	3,420
3166	MONTICELLO MN #1	7,906	4,744	4,744
1471	MORRIS MN #1	2,791	1,675	1,675
1473	MORRIS MN #2	24	14	14
1474	MORRISTOWN MN #1	405	243	243
1476	MOUND VILLAGE MN #1	9,220	5,532	5,532
1477	NELSON MN #1	118	71	71
60077	NICOLLET MN #1	650	390	390
1460	NORWOOD-Y.A. MN	4,696	2,818	2,818
1466	OLIVIA MN #1	1,430	858	858
1468	OSAKIS MN #1	1,047	628	628
1472	PAYNESVILLE MN #1	1,793	1,076	1,076
1475	PIERZ MN #1	1,204	722	722
1478	PIPESTONE MN #1	3,415	2,049	2,049
1479	PLATO MN #1	237	142	142
59674	PRIOR LAKE MN #1C	100	60	60
60093	PRIOR LAKE MN #1 D	100	60	60
60092	PRIOR LAKE MN #1 E	100	60	60
1481	RANDOLPH MN #1	136	82	82
1417	RICHMOND MN #1	652	391	391
1421	ROCKFORD MN #1	1,747	1,048	1,048
1423	ROCKVILLE MN #1	956	574	574
1427	ROSCOE MN #1	79	47	47
1398	SAUK CENTRE MN #1	2,554	1,532	1,532
1407	SILVER LAKE MN #1	567	340	340
1410	SLEEPY EYE MN #1	1,986	1,192	1,192
1415	SLEEPY EYE MN #2	18	11	11
3168	SOUTH HAVEN MN #1	176	106	106
3169	SOUTH HAVEN MN #1A	10	6	6
1419	SPRINGFIELD MN #1	1,483	890	890
3171	STANCHFIELD MN #1	116	70	70
1424	STARBUCK MN #1	1,169	701	701

Attachment A-2: Capped Rate MDQ (Continued)

Receipts and Delivery Points Beginning 11/01/2018 and Ending 10/31/2019

Delivery Points (Continued):

POI	Point Name	November through March	April and October	May through September
1430	ST BONIFACIUS MN #1	2,103	1,262	1,262
1433	ST. JAMES MN #1	2,345	1,407	1,407
1437	ST. MICHAEL MN #1	13,675	8,207	8,207
1441	ST. PETER MN #2	80	48	48
1432	VESELI MN #1	87	52	52
1435	WACONIA MN #1	7,924	4,754	4,754
1439	WACONIA MN #1A	1,030	618	618
12937	WACONIA MN #3	195	117	117
15729	WASECA MN #1	509	305	305
1375	WASECA MN #1A	6,955	4,173	4,173
1379	WASECA MN #1B	141	85	85
1381	WASECA MN #2	328	197	197
1383	WATERVILLE MN #1	944	566	566
3173	WATKINS MN #1	833	500	500
1387	WILLMAR MN #1	15,280	9,169	9,169
1389	WINNEBAGO MN #1	1,257	754	754
1392	WINSTED MN #1	1,559	935	935
1394	WINTHROP MN #1	876	526	526
Total Capped Rate MDQ Deliveries		245,296	147,178	147,178

[Attachment A-2 is continued on following page]

Attachment A-2: Capped Rate MDQ (Continued)

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Receipt Points:

POI	Point Name	November through March	April and October	May through September
388	GRLKS/NNG CARLTON	19,894	985	985
204	NBPL/NNG MARSHALL	3,489	660	660
192	NBPL/NNG VENTURA	95,512	57,916	57,916
1665	NBPL/NNG WELCOME	18,681	6,250	6,250
197	NGPL/NNG GLENWOOD	25,000	50,000	-
37654	NNG FIELD/MKT DEMARCATION-16B	74,925	27,304	77,304
196	VIKING CHISAGO/SANTI	1,599	1,599	1,599
61667	VINKING/NNG PIERZ-INTER	5,714	2,174	2,174
Total Capped Rate MDQ Receipts		244,814	146,888	146,888

Delivery Points:

POI	Point Name	November through March	April and October	May through September
1236	ALBANY MN #1	882	529	529
1241	ALEXANDRIA MN #1	11,207	6,724	6,724
1955	AMBOY MN #1	317	190	190
53956	ANNANDALE (MALCO MANUFACTURING)	35	21	21
3136	ANNANDALE MN #1	3,440	2,064	2,064
1243	ARLINGTON MN #1	1,009	605	605
1247	ATWATER MN #1	1,898	1,139	1,139
22017	AVON - ST.JOHN MN #1	1,478	887	887
1248	BELLE PLAINE MN #1	2,702	1,621	1,621
79306	BELLE PLAINE MN #1-S	275	165	165
1251	BENSON MN #1	4,365	2,619	2,619
3138	BIG LAKE MN #1	4,564	2,738	2,738
3139	BIG LAKE MN #2	461	277	277
1252	BLUE EARTH MN #1	2,255	1,353	1,353
3143	BRAHAM MN #1	723	434	434
1255	BRAINERD MN #1	11,371	6,823	6,823
1256	BROWERVILLE MN #1	409	245	245
61633	BUCKMAN MN #1	208	125	125
3144	BUFFALO MN #1	7,530	4,518	4,518
57419	CAMBRIDGE #4 (WILLIAM KAST)	6	4	4
3147	CAMBRIDGE MN #1A	37	22	22
3148	CAMBRIDGE MN #2	42	25	25
57837	CENTERVILLE MN #1	2,914	1,748	1,748
1261	CLEVELAND MN #1	264	158	158
1262	COATES MN #1	1,196	718	718
1268	COKATO MN #1	1,420	852	852
1274	COLD SPRING MN #1	2,942	1,765	1,765
1271	COLOGNE MN #1	2,265	1,359	1,359
1276	CYRUS MN #1	157	94	94
1277	DASSELL MN #1	792	475	475
1278	EAGLE LAKE MN #1	612	367	367
79307	EAGLE LAKE MN #1-S	1,000	600	600
1279	FREEPORT MN #1	608	365	365
1282	GAYLORD MN #1	1,700	1,020	1,020
1287	GLENCOE MN #1	3,269	1,961	1,961
1289	GLENWOOD MN #1	2,187	1,312	1,312
3159	GRANDY MN #1	65	39	39
3160	GRASSTON MN #1	135	81	81
1292	GROVE CITY MN #1	395	237	237
1294	HANCOCK MN #1	353	212	212
1296	HARTLAND MN #1	168	101	101
1303	HASTINGS MN #1	13,445	8,067	8,067
15721	HASTINGS MN #1A	445	267	267

Attachment A-2: Capped Rate MDQ (Continued)

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Delivery Points (Continued):

POI	Point Name	November through March	April and October	May through September
22927	HASTINGS MN #1B (COTTAGE GROVE)	377	226	226
1312	HASTINGS MN #1C	5,283	3,170	3,170
1956	HECTOR MN #1	799	479	479
1316	HOWARD LAKE MN #1	1,381	829	829
1319	IHLEN MN #1	45	27	27
1322	JANESVILLE MN #1	1,044	626	626
1323	JASPER MN #1	354	212	212
1326	JORDAN MN #1	0	0	0
3162	KIMBALL MN #1	417	250	250
1330	LAKE CRYSTAL MN #1	969	581	581
1332	LAKE CRYSTAL MN #2	84	50	50
61632	LASTRUP MN #1	3,732	2,239	2,239
1334	LE CENTER MN #1	1,188	713	713
1342	LESTER PRAIRIE MN #1	913	548	548
1336	LE SUEUR MN #1	2,832	1,699	1,699
1345	LEWISVILLE MN #1	165	99	99
3164	LEXINGTON MN #1A	5,131	3,079	3,079
1346	LITCHFIELD MN #1	3,679	2,207	2,207
1353	LITTLE FALLS MN #1A	89	53	53
1355	LONG PRAIRIE MN #1	2,106	1,264	1,264
1354	LONSDALE MN #1	2,485	1,491	1,491
1356	LOWRY MN #1	218	131	131
1358	LUVERNE MN #1	2,104	1,262	1,262
1359	MADELIA MN #1	1,501	901	901
3165	MAPLE LAKE MN #1	1,913	1,148	1,148
25969	MAYER MN 1	2,635	1,581	1,581
1401	MEDFORD MN #1	581	349	349
1405	MELROSE MN #1	1,597	958	958
25968	MINNEAPOLIS MN #1E	5,700	3,420	3,420
3166	MONTICELLO MN #1	7,906	4,744	4,744
1471	MORRIS MN #1	2,791	1,675	1,675
1473	MORRIS MN #2	24	14	14
1474	MORRISTOWN MN #1	405	243	243
1476	MOUND VILLAGE MN #1	9,220	5,532	5,532
1477	NELSON MN #1	118	71	71
60077	NICOLLET MN #1	650	390	390
1460	NORWOOD-Y.A. MN	4,696	2,818	2,818
1466	OLIVIA MN #1	1,430	858	858
1468	OSAKIS MN #1	1,047	628	628
1472	PAYNESVILLE MN #1	1,793	1,076	1,076
1475	PIERZ MN #1	1,204	722	722
1478	PIPESTONE MN #1	3,415	2,049	2,049
1479	PLATO MN #1	237	142	142
59674	PRIOR LAKE MN #1C	100	60	60
60093	PRIOR LAKE MN #1 D	100	60	60
60092	PRIOR LAKE MN #1 E	100	60	60
1481	RANDOLPH MN #1	136	82	82
1417	RICHMOND MN #1	652	391	391
1421	ROCKFORD MN #1	1,747	1,048	1,048
1423	ROCKVILLE MN #1	956	574	574
1427	ROSCOE MN #1	79	47	47
1398	SAUK CENTRE MN #1	2,554	1,532	1,532
1407	SILVER LAKE MN #1	567	340	340
1410	SLEEPY EYE MN #1	1,986	1,192	1,192
1415	SLEEPY EYE MN #2	18	11	11
3168	SOUTH HAVEN MN #1	176	106	106
3169	SOUTH HAVEN MN #1A	10	6	6
1419	SPRINGFIELD MN #1	1,483	890	890
3171	STANCHFIELD MN #1	116	70	70
1424	STARBUCK MN #1	1,169	701	701

Attachment A-2: Capped Rate MDQ (Continued)

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Delivery Points (Continued):

POI	Point Name	November through March	April and October	May through September
1430	ST BONIFACIUS MN #1	2,103	1,262	1,262
1433	ST. JAMES MN #1	2,345	1,407	1,407
1437	ST. MICHAEL MN #1	14,615	8,770	8,770
1441	ST. PETER MN #2	80	48	48
1432	VESELI MN #1	87	52	52
1435	WACONIA MN #1	7,924	4,754	4,754
1439	WACONIA MN #1A	1,030	618	618
12937	WACONIA MN #3	195	117	117
15729	WASECA MN #1	509	305	305
1375	WASECA MN #1A	6,955	4,173	4,173
1379	WASECA MN #1B	141	85	85
1381	WASECA MN #2	328	197	197
1383	WATERVILLE MN #1	944	566	566
3173	WATKINS MN #1	833	500	500
1387	WILLMAR MN #1	15,280	9,169	9,169
1389	WINNEBAGO MN #1	1,257	754	754
1392	WINSTED MN #1	1,559	935	935
1394	WINTHROP MN #1	876	526	526
Total Capped Rate MDQ Deliveries		244,814	146,888	146,888

Attachment A-3: 2019 Discount Area Expansion MDQ

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Receipt Points:

POI	Point Name	November Through March	April And October	May Through September
192	NBPL/NNG VENTURA	35,118	21,071	21,071
Total 2019 Discount Area Expansion MDQ Receipts		35,118	21,071	21,071

Delivery Points:

POI	Point Name	November through March	April and October	May through September
2295	ANOKA MN #1	3,666	2,200	2,200
2296	BLAINE MN #1	815	489	489
3140	BLAINE MN #1A	614	368	368
3146	CAMBRIDGE MN #1	752	451	451
3153	DAYTON MN #1	3,044	1,826	1,826
3154	ELK RIVER MN #1	634	380	380
1347	LITTLE FALLS MN #1	93	56	56
1436	MINNEAPOLIS MN #1D	10,000	6,000	6,000
1455	MINNEAPOLIS MN #1P	9,576	5,747	5,747
79308	NEW PRAGUE MN #1-S	629	377	377
3167	PRINCETON MN #1	1,170	702	702
1480	PRIOR LAKE MN #1	622	373	373
3170	SPRING LAKE PARK MN #1	822	493	493
79309	ST. PETER MN #1-S	681	409	409
22019	ZIMMERMAN MN #1	2,000	1,200	1,200
Total 2019 Discount Area Expansion MDQ Deliveries		35,118	21,071	21,071

Attachment A-4: 2019 Out-State Area Expansion MDQ

Receipts and Delivery Points Beginning 11/01/2019 and Ending 10/31/2034

Receipt Points:

POI	Point Name	November Through March	April And October	May Through September
192	NBPL/NNG VENTURA	14,111	8,467	8,467
1665	NBPL/NNG WELCOME	519	311	311
Total 2019 Out-State Area Expansion MDQ Receipts		14,630	8,778	8,778

Delivery Points:

POI	Point Name	November through March	April and October	May through September
1236	ALBANY MN #1	500	300	300
1241	ALEXANDRIA MN #1	400	240	240
79306	BELLE PLAINE MN #1-S	725	435	435
3138	BIG LAKE MN #1	2,193	1,317	1,317
1255	BRAINERD MN #1	924	554	554
3144	BUFFALO MN #1	1,153	692	692
57837	CENTERVILLE MN #1	234	140	140
1271	COLOGNE MN #1	126	76	76
1289	GLENWOOD MN #1	53	32	32
3162	KIMBALL MN #1	43	26	26
79366	LAKE CRYSTAL MN #1-S	185	111	111
79367	LE CENTER MN #1-S	124	74	74
1346	LITCHFIELD MN #1	612	367	367
1355	LONG PRAIRIE MN #1	99	59	59
1358	LUVERNE MN #1	519	311	311
79330	MADelia MN #1-S	221	133	133
79368	MANKATO MN #5-S	200	120	120
3165	MAPLE LAKE MN #1	214	128	128
1405	MELROSE MN #1	123	74	74
3166	MONTICELLO MN #1	888	533	533
1476	MOUND VILLAGE MN #1	195	117	117
1466	OLIVIA MN #1	19	11	11
1472	PAYNESVILLE MN #1	200	120	120
1481	RANDOLPH MN #1	300	180	180
1421	ROCKFORD MN #1	190	114	114
1398	SAUK CENTRE MN #1	160	96	96
79331	SLEEPY EYE MN #1-S	162	97	97
79332	SPRINGFIELD MN #1-S	198	119	119
1430	ST BONIFACIUS MN #1	138	83	83
79333	ST. JAMES MN #1-S	142	85	85
79369	ST. PETER MN #2-S	224	134	134
1435	WACONIA MN #1	931	559	559
1375	WASECA MN #1A	104	62	62
3173	WATKINS MN #1	576	346	346
1387	WILLMAR MN #1	1,278	767	767
1392	WINSTED MN #1	277	166	166
Total 2019 Out-State Area Expansion MDQ Deliveries		14,630	8,778	8,778

Attachment A-5: 2023 Credit River Expansion MDQ

Receipts and Delivery Points Beginning 11/01/2023 and Ending 10/31/2034

Receipt Point:

POI	Point Name	November Through March	April And October	May Through September
192	NBPL/NNG VENTURA	22,000	13,200	13,200
Total 2023 Credit River Expansion MDQ Receipts		22,000	13,200	13,200

Delivery Point:

POI	Point Name	November through March	April and October	May through September
New	CREDIT RIVER MN #1	22,000	13,200	13,200
Total 2023 Credit River Expansion MDQ Deliveries		22,000	13,200	13,200

Attachment B: Realignment, Reductions and Permanent Capacity Releases

Table B-1: Change in Rates and Required Reimbursement's for Realignments, Reduction and Permanent Capacity Releases

MDQ Type	For Realignments of Deliveries to			For Realignment of Receipts to All Receipt Points	For Reductions and Permanent Capacity Release
	Deliveries at a Discounted Point	Deliveries at a Non-Discounted Point in Shipper's Zone EF	Deliveries at a Point Outside Shipper's Zone EF		
MDQ at the Discounted Rates (A-1, A-3, A-5 and Growth MDQ at Discounted Points)	No change in rates; No Reimbursement	Increase rates for the realigned MDQ to the Maximum TFX Reservation Rates; Pay Level 1 Reimbursement	Increase rates for the realigned MDQ to the Maximum TFX Reservation Rates; Pay Level 2 Reimbursement	Increase rates for the realigned MDQ to the Maximum TFX Reservation Rates; Pay Level 1 Reimbursement	Pay Level 2 Reimbursement
Capped Rate MDQ (A-2)	No change in rates; No Reimbursement	No change in rates; No Reimbursement	Increase rates for the realigned volumes to the Maximum TFX Reservation Rates and exclude MDQ from the Annual Revenue calculation; Pay Level 2 Reimbursement	Increase rates for the realigned MDQ to the Maximum TFX Reservation Rates and exclude realigned MDQ from the Annual Revenue calculation; No Reimbursement	Exclude MDQ from the Annual Revenue calculation; Pay Level 2 Reimbursement
Other MDQ (A-4 and Growth MDQ at Non-Discounted Points)	No change in rates; No Reimbursement	No change in rates; No Reimbursement	No change in rates; Pay Level 2 Reimbursement	No change in rates; No Reimbursement	Pay Level 2 Reimbursement

Attachment B: Realignments, Reductions and Permanent Capacity Releases (Continued)

Table B-2: Reimbursement Amounts

Date of Realignment, Reduction or Permanent Capacity Release	Level 1 Reimbursement All Volumes	Level 2 Reimbursement		
		First 71,748 Dth	Growth MDQ (Currently 0 Dth)	Additional MDQ
11/01/2018-10/31/2019	\$151.18/Dth	\$796.02/Dth	TBD	\$151.18/Dth
11/01/2019-10/31/2020	\$161.01/Dth	\$847.76/Dth	TBD	\$161.01/Dth
11/01/2020-10/31/2021	\$153.78/Dth	\$835.32/Dth	TBD	\$153.78/Dth
11/01/2021-10/31/2022	\$146.30/Dth	\$819.07/Dth	TBD	\$146.30/Dth
11/01/2022-10/31/2023	\$138.57/Dth	\$798.91/Dth	TBD	\$138.57/Dth
11/01/2023-10/31/2024	\$130.59/Dth	\$774.56/Dth	TBD	\$130.59/Dth
11/01/2024-10/31/2025	\$122.11/Dth	\$724.27/Dth	TBD	\$122.11/Dth
11/01/2025-10/31/2026	\$113.06/Dth	\$670.59/Dth	TBD	\$113.06/Dth
11/01/2026-10/31/2027	\$103.42/Dth	\$613.41/Dth	TBD	\$103.42/Dth
11/01/2027-10/31/2028	\$93.15/Dth	\$552.53/Dth	TBD	\$93.15/Dth
11/01/2028-10/31/2029	\$82.23/Dth	\$487.76/Dth	TBD	\$82.23/Dth
11/01/2029-10/31/2030	\$70.59/Dth	\$418.71/Dth	TBD	\$70.59/Dth
11/01/2030-10/31/2031	\$58.19/Dth	\$345.16/Dth	TBD	\$58.19/Dth
11/01/2031-10/31/2032	\$44.99/Dth	\$266.83/Dth	TBD	\$44.99/Dth
11/01/2032-10/31/2033	\$30.93/Dth	\$183.45/Dth	TBD	\$30.93/Dth
11/01/2033-10/31/2034	\$15.15/Dth	\$94.61/Dth	TBD	\$15.15/Dth

Example 1: Delivery point realignment of 10,000 Dth/day of MDQ at the Discounted Rates to a Non-Discounted delivery point in Shipper's Zone EF effective 11/01/2027

- Rates for realigned 10,000 Dth/day increase to Northern's Maximum TFX Reservation Rates beginning 11/01/2027 and ending 10/31/2034, subject to ROFR; and
- Provide a Reimbursement of \$931,500 (10,000 Dth/day x \$93.15)
- Note: Excludes costs to facilitate realignment, if any

Example 2: Delivery point realignment of 10,000 Dth/day of Capped Rate MDQ to a delivery point outside Shipper's Zone EF effective 12/01/2025

- Rates for realigned 10,000 Dth/day increase to Northern's Maximum TFX Reservation Rates and the revenue for the realigned 10,000 Dth/day are excluded from the calculation of Annual Revenue beginning 12/01/2025 and ending 10/31/2034, subject to ROFR; and
- Provide a Reimbursement of \$6,705,900 (10,000 Dth/day x \$670.59)
- Note: Excludes costs to facilitate realignment, if any

Example 3: Receipt point realignment of 10,000 Dth/day of MDQ at the Discounted Rates to any receipt point effective 02/01/2030

- Rates for realigned 10,000 Dth/day increase to Northern's Maximum TFX Reservation Rates beginning 02/01/2030 and ending, subject to ROFR, 10/31/2034; and
- Provide a Reimbursement of \$705,900 (10,000 Dth/day x \$70.59);
- Note: Excludes costs to facilitate realignment, if any

Attachment C: Pressure Guarantees

Pressure Guarantees are provided subject to the conditions in Paragraph 3.b. beginning 11/01/2018 and ending 10/31/2034

POI	Pressure Point	Pressure Guarantee
1236	ALBANY MN #1	95
1241	ALEXANDRIA MN #1	125
1955	AMBOY MN #1	50
3136	ANNANDALE #1	50
53956	ANNANDALE (MALCO MANUFACTURING)	30
2295	ANOKA #1	125
3137	ANOKA MN #1A	125
1243	ARLINGTON MN #1	50
1247	ATWATER MN #1	95
22017	AVON - ST. JOHN MN #1	240
1248	BELLE PLAINE MN #1	95
1251	BENSON MN #1	95
3138	BIG LAKE MN #1	95
3139	BIG LAKE MN #2	40
2296	BLAINE MN #1	50
3140	BLAINE MN #1A	175
1252	BLUE EARTH MN #1	75
3143	BRAHAM #1	50
1255	BRAINERD MN #1	95
1256	BROWERVILLE MN #1	50
61633	BUCKMAN MN #1	55
3144	BUFFALO MN #1	95
57419	CAMBRIDGE #4	10
3146	CAMBRIDGE MN #1	95
3147	CAMBRIDGE MN #1A	10
3148	CAMBRIDGE MN #2	10
57837	CENTERVILLE MN #1	80
1261	CLEVELAND MN #1	50
1262	COATES MN #1	250
1268	COKATO MN #1	95
1274	COLD SPRING MN #1	95
1271	COLOGNE MN #1	95
2294	COON RAPIDS MN #1	50
78860	CORCORAN MN #1	250
1276	CYRUS MN #1	50
1277	DASSELL MN #1	50
3153	DAYTON MN #1	200
1278	EAGLE LAKE MN #1	50
3154	ELK RIVER #1	50
3156	ELK RIVER MN #1B	50
3158	ELK RIVER MN #3	50
1279	FREEPORT MN #1	50
1282	GAYLORD MN #1	90
1287	GLENCOE MN #1	60
1289	GLENWOOD MN #1	50
3159	GRANDY MN #1	40
3160	GRASSTON MN #1	40
1292	GROVE CITY MN #1	50
22020	HAM LAKE MN #1	50

Attachment C: Pressure Guarantees (Continued)

POI	Pressure Point	Pressure Guarantee
1294	HANCOCK MN #1	50
1296	HARTLAND MN #1	55
1303	HASTINGS MN #1	Line Pressure; 500 psig minimum
15721	HASTINGS MN #1A	120
22927	HASTINGS MN #1B (COTTAGE GROVE)	95
1312	HASTINGS MN #1C	Line Pressure; 500 psig minimum
1956	HECTOR #1	50
1316	HOWARD LAKE MN #1	50
1319	IHLEN MN #1	50
3161	ISANTI MN #1	50
1322	JANESVILLE MN #1	50
1323	JASPER MN #1	54
1326	JORDAN MN #1	95
1328	JORDAN MN #2	250
3162	KIMBALL MN #1	50
1330	LAKE CRYSTAL MN #1	50
1332	LAKE CRYSTAL MN #2	50
61632	LASTRUP MN #1	275
1334	LE CENTER MN #1	50
1336	LE SUEUR MN #1	95
1342	LESTER PRAIRIE MN #1	50
1345	LEWISVILLE MN #1	50
3163	LEXINGTON MN #1	95
3164	LEXINGTON MN #1A	50
1346	LITCHFIELD MN #1	50
1347	LITTLE FALLS MN #1	95
1353	LITTLE FALLS MN #1A	30
1355	LONG PRAIRIE MN #1	125
1354	LONSDALE MN #1	55
1356	LOWRY MN #1	95
1358	LUVERNE MN #1	70
1359	MADELIA MN #1	95
1373	MANKATO MN #1	95
2775	MANKATO MN #1A	375
3165	MAPLE LAKE MN #1	50
25969	MAYER MN 1	175
1401	MEDFORD MN #1	60
1405	MELROSE MN #1	75
1436	MINNEAPOLIS MN #1D	250
25968	MINNEAPOLIS MN #1E	175
1442	MINNEAPOLIS MN #1G	174
1450	MINNEAPOLIS MN #1H	70
12933	MINNEAPOLIS MN #1K	90
1455	MINNEAPOLIS MN #1P	510
2774	MINNEAPOLIS MN #1Q	400
1462	MINNEAPOLIS MN #1R	600
56628	MINNETRISTA MN #1	250
1470	MONTGOMERY MN #1	50
3166	MONTICELLO MN #1	125
1473	MORRIS #2	40
1471	MORRIS MN #1	95
1474	MORRISTOWN MN #1	43
1476	MOUND VILLAGE MN #1	160

Attachment C: Pressure Guarantees (Continued)

POI	Pressure Point	Pressure Guarantee
1477	NELSON MN #1	50
1456	NEW PRAGUE MN #1	95
60077	NICOLLET MN #1	250
1460	NORWOOD-Y.A. MN	50
1466	OLIVIA MN #1	50
1468	OSAKIS MN #1	50
1472	PAYNESVILLE MN #1	50
1475	PIERZ MN #1	50
1478	PIPESTONE MN #1	95
1479	PLATO MN #1	95
3167	PRINCETON MN #1	60
1480	PRIOR LAKE MN #1	175
12934	PRIOR LAKE MN #1A	90
59674	PRIOR LAKE MN #1C	50
60093	PRIOR LAKE MN #1D	50
60092	PRIOR LAKE MN #1E	50
1481	RANDOLPH MN #1	55
1417	RICHMOND MN #1	50
1421	ROCKFORD MN #1	175
1423	ROCKVILLE MN #1	50
1427	ROSCOE MN #1	50
1398	SAUK CENTRE MN #1	50
2141	SAVAGE MN #1E	95
1407	SILVER LAKE MN #1	50
1410	SLEEPY EYE MN #1	50
1415	SLEEPY EYE MN #2	55
3168	SOUTH HAVEN MN #1	40
3169	SOUTH HAVEN MN #1A	45
3170	SPRING LAKE PARK MN #1	50
1419	SPRINGFIELD MN #1	50
1430	ST BONIFACIUS MN #1	90
1433	ST. JAMES MN #1	50
1437	ST. MICHAEL MN #1	175
12935	ST. MICHAEL MN #1A	175
1440	ST. PETER #1	95
1441	ST. PETER MN #2	95
3171	STANCHFIELD #1	40
1424	STARBUCK MN #1	50
1432	VESELI MN #1	55
1435	WACONIA MN #1	95
1439	WACONIA MN #1A	50
12937	WACONIA MN #3	50
15729	WASECA MN #1	125
1375	WASECA MN #1A	50
1379	WASECA MN #1B	50
1381	WASECA MN #2	95
1383	WATERVILLE MN #1	45
3173	WATKINS MN #1	90
1387	WILLMAR MN #1	95
1389	WINNEBAGO MN #1	95
1392	WINSTED MN #1	50
1394	WINTHROP MN #1	50
22019	ZIMMERMAN MN #1	175

Contract No: TBD
 Request No. TBD
 Amendment No. 1

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

Contract Volumes (Dth):

MARKET	1,129,602	November through March
MARKET	677,762	April through October

Maximum Daily Quantities (Dth):

Volume Type	From	Volume
MDQ	November through March	1,129,602
MDQ	April through October	677,762

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

RECEIPT AND DELIVERY POINT DESCRIPTIONS AND VOLUMES (DTH)

R/D	POI # / MIDS	Point Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
R	922 / MID 17	CENTERPOINT/NNG WATERVILLE WITHDRAWAL	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
R	388 / MID 17	GRLKS/NNG CARLTON	67,363	67,363	67,363	985	985	985	985	985	985	985	67,363	67,363
R	60229 / MID 17	NBPL/NNG GRUNDY CENTER	2,136	2,136	2,136	0	0	0	0	0	0	0	2,136	2,136
R	204 / MID 17	NBPL/NNG MARSHALL	3,489	3,489	3,489	660	660	660	660	660	660	660	3,489	3,489
R	192 / MID 17	NBPL/NNG VENTURA	492,269	492,269	492,269	331,077	331,077	331,077	331,077	331,077	331,077	331,077	492,269	492,269
R	1665 / MID 17	NBPL/NNG WELCOME	37,831	37,831	37,831	24,713	24,713	24,713	24,713	24,713	24,713	24,713	37,831	37,831
R	197 / MID 17	NGPL/NNG GLENWOOD	100,000	100,000	100,000	50,000	0	0	0	0	0	50,000	100,000	100,000
R	37654 / MID 16 B	NNG FIELD/MKT DEMARCATION -16B	299,699	299,699	299,699	206,747	256,747	256,747	256,747	256,747	256,747	206,747	299,699	299,699
R	1318 / MID 17	TBPL/NNG BEATRICE	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
R	196 / MID 17	VIKING CHISAGO/ISANTI	18,038	18,038	18,038	11,406	11,406	11,406	11,406	11,406	11,406	11,406	18,038	18,038
R	61667 / MID 17	VIKING/NNG PIERZ INTER	8,777	8,777	8,777	2,174	2,174	2,174	2,174	2,174	2,174	2,174	8,777	8,777
Total Market Area Receipts			1,129,602	1,129,602	1,129,602	677,762	677,762	677,762	677,762	677,762	677,762	677,762	1,129,602	1,129,602
D	3026 / MID 17	ZONE EF CENTERPOINT ENERGY MINNESOTA GAS	1,129,602	1,129,602	1,129,602	677,762	677,762	677,762	677,762	677,762	677,762	677,762	1,129,602	1,129,602
Total Market Area Deliveries			1,129,602	1,129,602	1,129,602	677,762	677,762	677,762	677,762	677,762	677,762	677,762	1,129,602	1,129,602

Contract No: TBD
 Request No. TBD
 Amendment No. 1

Appendix A
 Firm Throughput Service Agreement
 TFX Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

Contract Volumes (Dth):

MARKET	1,180,290	November through March
MARKET	708,174	April through October

Maximum Daily Quantities (Dth):

<u>Volume Type</u>	<u>From</u>	<u>Volume</u>
MDQ	November through March	1,180,290
MDQ	April through October	708,174

Contract No: TBD
Request No. TBD
Amendment No. 1

Appendix A
Firm Throughput Service Agreement
TFX Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

RECEIPT AND DELIVERY POINT DESCRIPTIONS AND VOLUMES (DTH)

R/D	POI # / MIDS	Point Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
R	922 / MID 17	CENTERPOINT/NNG WATERVILLE WITHDRAWAL	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
R	388 / MID 17	GRLKS/NNG CARLTON	67,363	67,363	67,363	985	985	985	985	985	985	985	67,363	67,363
R	60229 / MID 17	NBPL/NNG GRUNDY CENTER	2,136	2,136	2,136	0	0	0	0	0	0	0	2,136	2,136
R	204 / MID 17	NBPL/NNG MARSHALL	3,489	3,489	3,489	660	660	660	660	660	660	660	3,489	3,489
R	192 / MID 17	NBPL/NNG VENTURA	542,438	542,438	542,438	361,178	361,178	361,178	361,178	361,178	361,178	361,178	542,438	542,438
R	1665 / MID 17	NBPL/NNG WELCOME	38,350	38,350	38,350	25,024	25,024	25,024	25,024	25,024	25,024	25,024	38,350	38,350
R	197 / MID 17	NGPL/NNG GLENWOOD	100,000	100,000	100,000	50,000	0	0	0	0	0	50,000	100,000	100,000
R	37654 / MID 16 B	NNG FIELD/MKT DEMARCATION -16B	299,699	299,699	299,699	206,747	256,747	256,747	256,747	256,747	256,747	206,747	299,699	299,699
R	1318 / MID 17	TBPL/NNG BEATRICE	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
R	196 / MID 17	VIKING CHISAGO/SANTI	18,038	18,038	18,038	11,406	11,406	11,406	11,406	11,406	11,406	11,406	18,038	18,038
R	61667 / MID 17	VIKING/NNG PIERZ INTER	8,777	8,777	8,777	2,174	2,174	2,174	2,174	2,174	2,174	2,174	8,777	8,777
		Total Market Area Receipts	1,180,290	1,180,290	1,180,290	708,174	708,174	708,174	708,174	708,174	708,174	708,174	1,180,290	1,180,290
D	3026 / MID 17	ZONE EF CENTERPOINT ENERGY MINNESOTA GAS	1,180,290	1,180,290	1,180,290	708,174	708,174	708,174	708,174	708,174	708,174	708,174	1,180,290	1,180,290
		Total Market Area Deliveries	1,180,290	1,180,290	1,180,290	708,174	708,174	708,174	708,174	708,174	708,174	708,174	1,180,290	1,180,290

Contract No: TBD
 Request No. TBD
 Amendment No. 1

Appendix A
 Firm Throughput Service Agreement
 TFX Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

Contract Volumes (Dth):

MARKET	1,202,290	November through March
MARKET	721,374	April through October

Maximum Daily Quantities (Dth):

Volume Type	From	Volume
MDQ	November through March	1,202,290
MDQ	April through October	721,374

Contract No: TBD
Request No. TBD
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Appendix A
Firm Throughput Service Agreement
TFX Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

RECEIPT AND DELIVERY POINT DESCRIPTIONS AND VOLUMES (DTH)

R/D	POI # / MIDS	Point Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
R	922 / MID 17	CENTERPOINT/NNG WATERVILLE WITHDRAWAL	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
R	388 / MID 17	GRLKS/NNG CARLTON	67,363	67,363	67,363	985	985	985	985	985	985	985	67,363	67,363
R	60229 / MID 17	NBPL/NNG GRUNDY CENTER	2,136	2,136	2,136	0	0	0	0	0	0	0	2,136	2,136
R	204 / MID 17	NBPL/NNG MARSHALL	3,489	3,489	3,489	660	660	660	660	660	660	660	3,489	3,489
R	192 / MID 17	NBPL/NNG VENTURA	564,438	564,438	564,438	374,378	374,378	374,378	374,378	374,378	374,378	374,378	564,438	564,438
R	1665 / MID 17	NBPL/NNG WELCOME	38,350	38,350	38,350	25,024	25,024	25,024	25,024	25,024	25,024	25,024	38,350	38,350
R	197 / MID 17	NGPL/NNG GLENWOOD	100,000	100,000	100,000	50,000	0	0	0	0	0	0	100,000	100,000
R	37654 / MID 16 B	NNG FIELD/MKT DEMARCATION -16B	299,699	299,699	299,699	206,747	256,747	256,747	256,747	256,747	256,747	206,747	299,699	299,699
R	1318 / MID 17	TBPL/NNG BEATRICE	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
R	196 / MID 17	VIKING CHISAGO/ISANTI	18,038	18,038	18,038	11,406	11,406	11,406	11,406	11,406	11,406	11,406	18,038	18,038
R	61667 / MID 17	VIKING/NNG PIERZ INTER	8,777	8,777	8,777	2,174	2,174	2,174	2,174	2,174	2,174	2,174	8,777	8,777
Total Market Area Receipts			1,202,290	1,202,290	1,202,290	721,374	721,374	721,374	721,374	721,374	721,374	721,374	1,202,290	1,202,290
D	3026 / MID 17	ZONE EF CENTERPOINT ENERGY MINNESOTA GAS	1,202,290	1,202,290	1,202,290	721,374	721,374	721,374	721,374	721,374	721,374	721,374	1,202,290	1,202,290
Total Market Area Deliveries			1,202,290	1,202,290	1,202,290	721,374	721,374	721,374	721,374	721,374	721,374	721,374	1,202,290	1,202,290

Contract No: TBD
Request No. TBD
Amendment No. 1

Appendix B
Firm Throughput Service Agreement
TFX Rate Schedule

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ZONE EF CENTERPOINT ENERGY MINNESOTA GAS													
1236	ALBANY MN #1	882	882	882	529	529	529	529	529	529	529	882	882
1241	ALEXANDRIA MN #1	11,207	11,207	11,207	6,724	6,724	6,724	6,724	6,724	6,724	6,724	11,207	11,207
1955	AMBOY MN #1	317	317	317	190	190	190	190	190	190	190	317	317
53956	ANNANDALE (MALCO MANUFACTURING)	35	35	35	21	21	21	21	21	21	21	35	35
3136	ANNANDALE MN #1	3,440	3,440	3,440	2,064	2,064	2,064	2,064	2,064	2,064	2,064	3,440	3,440
2295	ANOKA MN #1	25,988	25,988	25,988	15,593	15,593	15,593	15,593	15,593	15,593	15,593	25,988	25,988
3137	ANOKA MN #1A	8,492	8,492	8,492	5,095	5,095	5,095	5,095	5,095	5,095	5,095	8,492	8,492
1243	ARLINGTON MN #1	1,009	1,009	1,009	605	605	605	605	605	605	605	1,009	1,009
1247	ATWATER MN #1	1,898	1,898	1,898	1,139	1,139	1,139	1,139	1,139	1,139	1,139	1,898	1,898
22017	AVON - ST JOHN MN #1	1,478	1,478	1,478	887	887	887	887	887	887	887	1,478	1,478
1248	BELLE PLAINE MN #1	2,702	2,702	2,702	1,621	1,621	1,621	1,621	1,621	1,621	1,621	2,702	2,702
79306	BELLE PLAINE MN #1-S	275	275	275	165	165	165	165	165	165	165	275	275
1251	BENSON MN #1	4,365	4,365	4,365	2,619	2,619	2,619	2,619	2,619	2,619	2,619	4,365	4,365
3138	BIG LAKE MN #1	4,564	4,564	4,564	2,738	2,738	2,738	2,738	2,738	2,738	2,738	4,564	4,564
3139	BIG LAKE MN #2	461	461	461	277	277	277	277	277	277	277	461	461
2296	BLAINE MN #1	7,963	7,963	7,963	4,778	4,778	4,778	4,778	4,778	4,778	4,778	7,963	7,963
3140	BLAINE MN #1A	11,144	11,144	11,144	6,686	6,686	6,686	6,686	6,686	6,686	6,686	11,144	11,144
1252	BLUE EARTH MN #1	2,255	2,255	2,255	1,353	1,353	1,353	1,353	1,353	1,353	1,353	2,255	2,255
3143	BRAHAM MN #1	723	723	723	434	434	434	434	434	434	434	723	723
1255	BRAINERD MN #1	11,371	11,371	11,371	6,823	6,823	6,823	6,823	6,823	6,823	6,823	11,371	11,371
1256	BROWERVILLE MN #1	409	409	409	245	245	245	245	245	245	245	409	409
61633	BUCKMAN MN #1	208	208	208	125	125	125	125	125	125	125	208	208
3144	BUFFALO MN #1	7,530	7,530	7,530	4,518	4,518	4,518	4,518	4,518	4,518	4,518	7,530	7,530
57419	CAMBRIDGE #4 (WILLIAM KAST)	6	6	6	4	4	4	4	4	4	4	6	6
3146	CAMBRIDGE MN #1	4,775	4,775	4,775	2,865	2,865	2,865	2,865	2,865	2,865	2,865	4,775	4,775

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Delivery Point Listing

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3147	CAMBRIDGE MN #1A	37	37	37	22	22	22	22	22	22	22	37	37
3148	CAMBRIDGE MN #2	42	42	42	25	25	25	25	25	25	25	42	42
57837	CENTERVILLE MN #1	2,914	2,914	2,914	1,748	1,748	1,748	1,748	1,748	1,748	1,748	2,914	2,914
1261	CLEVELAND MN #1	264	264	264	158	158	158	158	158	158	158	264	264
1262	COATES MN #1	1,196	1,196	1,196	718	718	718	718	718	718	718	1,196	1,196
1268	COKATO MN #1	1,420	1,420	1,420	852	852	852	852	852	852	852	1,420	1,420
1274	COLD SPRING MN #1	2,942	2,942	2,942	1,765	1,765	1,765	1,765	1,765	1,765	1,765	2,942	2,942
1271	COLOGNE MN #1	2,265	2,265	2,265	1,359	1,359	1,359	1,359	1,359	1,359	1,359	2,265	2,265
2294	COON RAPIDS MN #1	18,445	18,445	18,445	11,067	11,067	11,067	11,067	11,067	11,067	11,067	18,445	18,445
78860	CORCORAN MN #1	40,000	40,000	40,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	40,000	40,000
1276	CYRUS MN #1	157	157	157	94	94	94	94	94	94	94	157	157
1277	DASSELL MN #1	792	792	792	475	475	475	475	475	475	475	792	792
3153	DAYTON MN #1	33,484	33,484	33,484	20,090	20,090	20,090	20,090	20,090	20,090	20,090	33,484	33,484
1278	EAGLE LAKE MN #1	612	612	612	367	367	367	367	367	367	367	612	612
79307	EAGLE LAKE MN #1-S	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
3154	ELK RIVER MN #1	6,971	6,971	6,971	4,183	4,183	4,183	4,183	4,183	4,183	4,183	6,971	6,971
3156	ELK RIVER MN #1B	2,032	2,032	2,032	1,219	1,219	1,219	1,219	1,219	1,219	1,219	2,032	2,032
3158	ELK RIVER MN #3	2,000	2,000	2,000	1,200	1,200	1,200	1,200	1,200	1,200	1,200	2,000	2,000
1279	FREEPORT MN #1	608	608	608	365	365	365	365	365	365	365	608	608
1282	GAYLORD MN #1	1,700	1,700	1,700	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,700	1,700
1287	GLENCOE MN #1	3,269	3,269	3,269	1,961	1,961	1,961	1,961	1,961	1,961	1,961	3,269	3,269
1289	GLENWOOD MN #1	2,187	2,187	2,187	1,312	1,312	1,312	1,312	1,312	1,312	1,312	2,187	2,187
3159	GRANDY MN #1	65	65	65	39	39	39	39	39	39	39	65	65
3160	GRASSTON MN #1	135	135	135	81	81	81	81	81	81	81	135	135
1292	GROVE CITY MN #1	395	395	395	237	237	237	237	237	237	237	395	395
22020	HAM LAKE MN #1	9,097	9,097	9,097	5,458	5,458	5,458	5,458	5,458	5,458	5,458	9,097	9,097
1294	HANCOCK MN #1	353	353	353	212	212	212	212	212	212	212	353	353

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Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1296	HARTLAND MN #1	168	168	168	101	101	101	101	101	101	101	168	168
1303	HASTINGS MN #1	13,445	13,445	13,445	8,067	8,067	8,067	8,067	8,067	8,067	8,067	13,445	13,445
15721	HASTINGS MN #1A	445	445	445	267	267	267	267	267	267	267	445	445
22927	HASTINGS MN #1B (COTTAGE GROVE)	377	377	377	226	226	226	226	226	226	226	377	377
1312	HASTINGS MN #1C	5,283	5,283	5,283	3,170	3,170	3,170	3,170	3,170	3,170	3,170	5,283	5,283
1956	HECTOR MN #1	799	799	799	479	479	479	479	479	479	479	799	799
1316	HOWARD LAKE MN #1	1,381	1,381	1,381	829	829	829	829	829	829	829	1,381	1,381
1319	IHLEN MN #1	45	45	45	27	27	27	27	27	27	27	45	45
3161	ISANTI MN #1	1,696	1,696	1,696	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,696	1,696
1322	JANESVILLE MN #1	1,044	1,044	1,044	626	626	626	626	626	626	626	1,044	1,044
1323	JASPER MN #1	354	354	354	212	212	212	212	212	212	212	354	354
1326	JORDAN MN #1	1,422	1,422	1,422	853	853	853	853	853	853	853	1,422	1,422
1328	JORDAN MN #2	2,632	2,632	2,632	1,579	1,579	1,579	1,579	1,579	1,579	1,579	2,632	2,632
3162	KIMBALL MN #1	417	417	417	250	250	250	250	250	250	250	417	417
1330	LAKE CRYSTAL MN #1	969	969	969	581	581	581	581	581	581	581	969	969
1332	LAKE CRYSTAL MN #2	84	84	84	50	50	50	50	50	50	50	84	84
61632	LAstrup MN #1	3,732	3,732	3,732	2,239	2,239	2,239	2,239	2,239	2,239	2,239	3,732	3,732
1334	LE CENTER MN #1	1,188	1,188	1,188	713	713	713	713	713	713	713	1,188	1,188
1336	LE SUEUR MN #1	2,832	2,832	2,832	1,699	1,699	1,699	1,699	1,699	1,699	1,699	2,832	2,832
1342	LESTER PRAIRIE MN #1	913	913	913	548	548	548	548	548	548	548	913	913
1345	LEWISVILLE MN #1	165	165	165	99	99	99	99	99	99	99	165	165
3163	LEXINGTON MN #1	11,339	11,339	11,339	6,803	6,803	6,803	6,803	6,803	6,803	6,803	11,339	11,339
3164	LEXINGTON MN #1A	5,131	5,131	5,131	3,079	3,079	3,079	3,079	3,079	3,079	3,079	5,131	5,131
1346	LITCHFIELD MN #1	3,679	3,679	3,679	2,207	2,207	2,207	2,207	2,207	2,207	2,207	3,679	3,679
1347	LITTLE FALLS MN #1	4,733	4,733	4,733	2,840	2,840	2,840	2,840	2,840	2,840	2,840	4,733	4,733
1353	LITTLE FALLS MN #1A	89	89	89	53	53	53	53	53	53	53	89	89

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Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1355	LONG PRAIRIE MN #1	2,106	2,106	2,106	1,264	1,264	1,264	1,264	1,264	1,264	1,264	2,106	2,106
1354	LONSDALE MN #1	2,485	2,485	2,485	1,491	1,491	1,491	1,491	1,491	1,491	1,491	2,485	2,485
1356	LOWRY MN #1	218	218	218	131	131	131	131	131	131	131	218	218
1358	LUVERNE MN #1	2,104	2,104	2,104	1,262	1,262	1,262	1,262	1,262	1,262	1,262	2,104	2,104
1359	MADELIA MN #1	1,501	1,501	1,501	901	901	901	901	901	901	901	1,501	1,501
1373	MANKATO MN #1	9,802	9,802	9,802	5,881	5,881	5,881	5,881	5,881	5,881	5,881	9,802	9,802
2775	MANKATO MN #1A	15,575	15,575	15,575	9,345	9,345	9,345	9,345	9,345	9,345	9,345	15,575	15,575
79305	MANKATO MN #1A-S	1,358	1,358	1,358	815	815	815	815	815	815	815	1,358	1,358
3165	MAPLE LAKE MN #1	1,913	1,913	1,913	1,148	1,148	1,148	1,148	1,148	1,148	1,148	1,913	1,913
25969	MAYER MN 1	2,635	2,635	2,635	1,581	1,581	1,581	1,581	1,581	1,581	1,581	2,635	2,635
1401	MEDFORD MN #1	581	581	581	349	349	349	349	349	349	349	581	581
1405	MELROSE MN #1	1,597	1,597	1,597	958	958	958	958	958	958	958	1,597	1,597
1436	MINNEAPOLIS MN #1D	176,040	176,040	176,040	105,625	105,625	105,625	105,625	105,625	105,625	105,625	176,040	176,040
25968	MINNEAPOLIS MN #1E	5,700	5,700	5,700	3,420	3,420	3,420	3,420	3,420	3,420	3,420	5,700	5,700
1442	MINNEAPOLIS MN #1G	13,622	13,622	13,622	8,173	8,173	8,173	8,173	8,173	8,173	8,173	13,622	13,622
1450	MINNEAPOLIS MN #1H	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
12933	MINNEAPOLIS MN #1K	4,811	4,811	4,811	2,887	2,887	2,887	2,887	2,887	2,887	2,887	4,811	4,811
1455	MINNEAPOLIS MN #1P	101,603	101,603	101,603	60,962	60,962	60,962	60,962	60,962	60,962	60,962	101,603	101,603
2774	MINNEAPOLIS MN #1Q	190,945	190,945	190,945	114,567	114,567	114,567	114,567	114,567	114,567	114,567	190,945	190,945
1462	MINNEAPOLIS MN #1R	107,417	107,417	107,417	64,450	64,450	64,450	64,450	64,450	64,450	64,450	107,417	107,417
56628	MINNETRISTA MN #1	21,849	21,849	21,849	13,109	13,109	13,109	13,109	13,109	13,109	13,109	21,849	21,849
1470	MONTGOMERY MN #1	1,338	1,338	1,338	803	803	803	803	803	803	803	1,338	1,338
3166	MONTICELLO MN #1	7,906	7,906	7,906	4,744	4,744	4,744	4,744	4,744	4,744	4,744	7,906	7,906
1471	MORRIS MN #1	2,791	2,791	2,791	1,675	1,675	1,675	1,675	1,675	1,675	1,675	2,791	2,791
1473	MORRIS MN #2	24	24	24	14	14	14	14	14	14	14	24	24
1474	MORRISTOWN MN #1	405	405	405	243	243	243	243	243	243	243	405	405
1476	MOUND VILLAGE MN #1	9,220	9,220	9,220	5,532	5,532	5,532	5,532	5,532	5,532	5,532	9,220	9,220

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Delivery Point Listing
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Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1477	NELSON MN #1	118	118	118	71	71	71	71	71	71	71	118	118
1456	NEW PRAGUE MN #1	2,461	2,461	2,461	1,477	1,477	1,477	1,477	1,477	1,477	1,477	2,461	2,461
79308	NEW PRAGUE MN #1-S	2,000	2,000	2,000	1,200	1,200	1,200	1,200	1,200	1,200	1,200	2,000	2,000
60077	NICOLLET MN #1	650	650	650	390	390	390	390	390	390	390	650	650
1460	NORWOOD-Y.A. MN	4,696	4,696	4,696	2,818	2,818	2,818	2,818	2,818	2,818	2,818	4,696	4,696
1466	OLIVIA MN #1	1,430	1,430	1,430	858	858	858	858	858	858	858	1,430	1,430
1468	OSAKIS MN #1	1,047	1,047	1,047	628	628	628	628	628	628	628	1,047	1,047
1472	PAYNESVILLE MN #1	1,793	1,793	1,793	1,076	1,076	1,076	1,076	1,076	1,076	1,076	1,793	1,793
1475	PIERZ MN #1	1,204	1,204	1,204	722	722	722	722	722	722	722	1,204	1,204
1478	PIPESTONE MN #1	3,415	3,415	3,415	2,049	2,049	2,049	2,049	2,049	2,049	2,049	3,415	3,415
1479	PLATO MN #1	237	237	237	142	142	142	142	142	142	142	237	237
3167	PRINCETON MN #1	3,035	3,035	3,035	1,821	1,821	1,821	1,821	1,821	1,821	1,821	3,035	3,035
1480	PRIOR LAKE MN #1	7,415	7,415	7,415	4,449	4,449	4,449	4,449	4,449	4,449	4,449	7,415	7,415
60093	PRIOR LAKE MN #1 D	100	100	100	60	60	60	60	60	60	60	100	100
60092	PRIOR LAKE MN #1 E	100	100	100	60	60	60	60	60	60	60	100	100
12934	PRIOR LAKE MN #1A	1,489	1,489	1,489	893	893	893	893	893	893	893	1,489	1,489
59674	PRIOR LAKE MN #1C	100	100	100	60	60	60	60	60	60	60	100	100
1481	RANDOLPH MN #1	136	136	136	82	82	82	82	82	82	82	136	136
1417	RICHMOND MN #1	652	652	652	391	391	391	391	391	391	391	652	652
1421	ROCKFORD MN #1	1,747	1,747	1,747	1,048	1,048	1,048	1,048	1,048	1,048	1,048	1,747	1,747
1423	ROCKVILLE MN #1	956	956	956	574	574	574	574	574	574	574	956	956
1427	ROSCOE MN #1	79	79	79	47	47	47	47	47	47	47	79	79
1398	SAUK CENTRE MN #1	2,554	2,554	2,554	1,532	1,532	1,532	1,532	1,532	1,532	1,532	2,554	2,554
2141	SAVAGE MN #1E	9,056	9,056	9,056	5,434	5,434	5,434	5,434	5,434	5,434	5,434	9,056	9,056
1407	SILVER LAKE MN #1	567	567	567	340	340	340	340	340	340	340	567	567
1410	SLEEPY EYE MN #1	1,986	1,986	1,986	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,986	1,986
1415	SLEEPY EYE MN #2	18	18	18	11	11	11	11	11	11	11	18	18

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Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3168	SOUTH HAVEN MN #1	176	176	176	106	106	106	106	106	106	106	176	176
3169	SOUTH HAVEN MN #1A	10	10	10	6	6	6	6	6	6	6	10	10
3170	SPRING LAKE PARK MN #1	6,717	6,717	6,717	4,030	4,030	4,030	4,030	4,030	4,030	4,030	6,717	6,717
1419	SPRINGFIELD MN #1	1,483	1,483	1,483	890	890	890	890	890	890	890	1,483	1,483
1430	ST BONIFACIUS MN #1	2,103	2,103	2,103	1,262	1,262	1,262	1,262	1,262	1,262	1,262	2,103	2,103
1433	ST. JAMES MN #1	2,345	2,345	2,345	1,407	1,407	1,407	1,407	1,407	1,407	1,407	2,345	2,345
1437	ST. MICHAEL MN #1	13,675	13,675	13,675	8,207	8,207	8,207	8,207	8,207	8,207	8,207	13,675	13,675
12935	ST. MICHAEL MN #1A	4,888	4,888	4,888	2,933	2,933	2,933	2,933	2,933	2,933	2,933	4,888	4,888
1440	ST. PETER MN #1	4,389	4,389	4,389	2,633	2,633	2,633	2,633	2,633	2,633	2,633	4,389	4,389
79309	ST. PETER MN #1-S	2,500	2,500	2,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	2,500	2,500
1441	ST. PETER MN #2	80	80	80	48	48	48	48	48	48	48	80	80
3171	STANCHFIELD MN #1	116	116	116	70	70	70	70	70	70	70	116	116
1424	STARBUCK MN #1	1,169	1,169	1,169	701	701	701	701	701	701	701	1,169	1,169
1432	VESELI MN #1	87	87	87	52	52	52	52	52	52	52	87	87
1435	WACONIA MN #1	7,924	7,924	7,924	4,754	4,754	4,754	4,754	4,754	4,754	4,754	7,924	7,924
1439	WACONIA MN #1A	1,030	1,030	1,030	618	618	618	618	618	618	618	1,030	1,030
12937	WACONIA MN #3	195	195	195	117	117	117	117	117	117	117	195	195
15729	WASECA MN #1	509	509	509	305	305	305	305	305	305	305	509	509
1375	WASECA MN #1A	6,955	6,955	6,955	4,173	4,173	4,173	4,173	4,173	4,173	4,173	6,955	6,955
1379	WASECA MN #1B	141	141	141	85	85	85	85	85	85	85	141	141
1381	WASECA MN #2	328	328	328	197	197	197	197	197	197	197	328	328
1383	WATERVILLE MN #1	944	944	944	566	566	566	566	566	566	566	944	944
3173	WATKINS MN #1	833	833	833	500	500	500	500	500	500	500	833	833
1387	WILLMAR MN #1	15,280	15,280	15,280	9,169	9,169	9,169	9,169	9,169	9,169	9,169	15,280	15,280
1389	WINNEBAGO MN #1	1,257	1,257	1,257	754	754	754	754	754	754	754	1,257	1,257
1392	WINSTED MN #1	1,559	1,559	1,559	935	935	935	935	935	935	935	1,559	1,559
1394	WINTHROP MN #1	876	876	876	526	526	526	526	526	526	526	876	876

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
Request No. TBD
Amendment No. 1

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2019

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
22019	ZIMMERMAN MN #1	4,205	4,205	4,205	2,523	2,523	2,523	2,523	2,523	2,523	2,523	4,205	4,205
Total ZONE EF CENTERPOINT ENERGY MINNESOTA GAS		1,129,602	1,129,602	1,129,602	677,762	677,762	677,762	677,762	677,762	677,762	677,762	1,129,602	1,129,602
Total		1,129,602	1,129,602	1,129,602	677,762	677,762	677,762	677,762	677,762	677,762	677,762	1,129,602	1,129,602

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
Request No. TBD
Amendment No. 1

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Delivery Point Listing

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ZONE EF CENTERPOINT ENERGY MINNESOTA GAS													
1236	ALBANY MN #1	1,382	1,382	1,382	829	829	829	829	829	829	829	1,382	1,382
1241	ALEXANDRIA MN #1	11,607	11,607	11,607	6,964	6,964	6,964	6,964	6,964	6,964	6,964	11,607	11,607
1955	AMBOY MN #1	317	317	317	190	190	190	190	190	190	190	317	317
53956	ANNANDALE (MALCO MANUFACTURING)	35	35	35	21	21	21	21	21	21	21	35	35
3136	ANNANDALE MN #1	3,440	3,440	3,440	2,064	2,064	2,064	2,064	2,064	2,064	2,064	3,440	3,440
2295	ANOKA MN #1	29,654	29,654	29,654	17,793	17,793	17,793	17,793	17,793	17,793	17,793	29,654	29,654
3137	ANOKA MN #1A	8,492	8,492	8,492	5,095	5,095	5,095	5,095	5,095	5,095	5,095	8,492	8,492
1243	ARLINGTON MN #1	1,009	1,009	1,009	605	605	605	605	605	605	605	1,009	1,009
1247	ATWATER MN #1	1,898	1,898	1,898	1,139	1,139	1,139	1,139	1,139	1,139	1,139	1,898	1,898
22017	AVON - ST. JOHN MN #1	1,478	1,478	1,478	887	887	887	887	887	887	887	1,478	1,478
1248	BELLE PLAINE MN #1	2,702	2,702	2,702	1,621	1,621	1,621	1,621	1,621	1,621	1,621	2,702	2,702
79306	BELLE PLAINE MN #1-S	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
1251	BENSON MN #1	4,365	4,365	4,365	2,619	2,619	2,619	2,619	2,619	2,619	2,619	4,365	4,365
3138	BIG LAKE MN #1	6,757	6,757	6,757	4,055	4,055	4,055	4,055	4,055	4,055	4,055	6,757	6,757
3139	BIG LAKE MN #2	461	461	461	277	277	277	277	277	277	277	461	461
2296	BLAINE MN #1	8,778	8,778	8,778	5,267	5,267	5,267	5,267	5,267	5,267	5,267	8,778	8,778
3140	BLAINE MN #1A	11,758	11,758	11,758	7,054	7,054	7,054	7,054	7,054	7,054	7,054	11,758	11,758
1252	BLUE EARTH MN #1	2,255	2,255	2,255	1,353	1,353	1,353	1,353	1,353	1,353	1,353	2,255	2,255
3143	BRAHAM MN #1	723	723	723	434	434	434	434	434	434	434	723	723
1255	BRAINERD MN #1	12,295	12,295	12,295	7,377	7,377	7,377	7,377	7,377	7,377	7,377	12,295	12,295
1256	BROWERVILLE MN #1	409	409	409	245	245	245	245	245	245	245	409	409
61633	BUCKMAN MN #1	208	208	208	125	125	125	125	125	125	125	208	208
3144	BUFFALO MN #1	8,683	8,683	8,683	5,210	5,210	5,210	5,210	5,210	5,210	5,210	8,683	8,683
57419	CAMBRIDGE #4 (WILLIAM KAST)	6	6	6	4	4	4	4	4	4	4	6	6
3146	CAMBRIDGE MN #1	5,527	5,527	5,527	3,316	3,316	3,316	3,316	3,316	3,316	3,316	5,527	5,527

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
Request No. TBD
Amendment No. 1

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3147	CAMBRIDGE MN #1A	37	37	37	22	22	22	22	22	22	22	37	37
3148	CAMBRIDGE MN #2	42	42	42	25	25	25	25	25	25	25	42	42
57837	CENTERVILLE MN #1	3,148	3,148	3,148	1,888	1,888	1,888	1,888	1,888	1,888	1,888	3,148	3,148
1261	CLEVELAND MN #1	264	264	264	158	158	158	158	158	158	158	264	264
1262	COATES MN #1	1,196	1,196	1,196	718	718	718	718	718	718	718	1,196	1,196
1268	COKATO MN #1	1,420	1,420	1,420	852	852	852	852	852	852	852	1,420	1,420
1274	COLD SPRING MN #1	2,942	2,942	2,942	1,765	1,765	1,765	1,765	1,765	1,765	1,765	2,942	2,942
1271	COLOGNE MN #1	2,391	2,391	2,391	1,435	1,435	1,435	1,435	1,435	1,435	1,435	2,391	2,391
2294	COON RAPIDS MN #1	18,445	18,445	18,445	11,067	11,067	11,067	11,067	11,067	11,067	11,067	18,445	18,445
78860	CORCORAN MN #1	40,000	40,000	40,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	40,000	40,000
1276	CYRUS MN #1	157	157	157	94	94	94	94	94	94	94	157	157
1277	DASSELL MN #1	792	792	792	475	475	475	475	475	475	475	792	792
3153	DAYTON MN #1	36,528	36,528	36,528	21,916	21,916	21,916	21,916	21,916	21,916	21,916	36,528	36,528
1278	EAGLE LAKE MN #1	612	612	612	367	367	367	367	367	367	367	612	612
79307	EAGLE LAKE MN #1-S	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
3154	ELK RIVER MN #1	7,605	7,605	7,605	4,563	4,563	4,563	4,563	4,563	4,563	4,563	7,605	7,605
3156	ELK RIVER MN #1B	2,032	2,032	2,032	1,219	1,219	1,219	1,219	1,219	1,219	1,219	2,032	2,032
3158	ELK RIVER MN #3	2,000	2,000	2,000	1,200	1,200	1,200	1,200	1,200	1,200	1,200	2,000	2,000
1279	FREEPORT MN #1	608	608	608	365	365	365	365	365	365	365	608	608
1282	GAYLORD MN #1	1,700	1,700	1,700	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,700	1,700
1287	GLENCOE MN #1	3,269	3,269	3,269	1,961	1,961	1,961	1,961	1,961	1,961	1,961	3,269	3,269
1289	GLENWOOD MN #1	2,240	2,240	2,240	1,344	1,344	1,344	1,344	1,344	1,344	1,344	2,240	2,240
3159	GRANDY MN #1	65	65	65	39	39	39	39	39	39	39	65	65
3160	GRASSTON MN #1	135	135	135	81	81	81	81	81	81	81	135	135
1292	GROVE CITY MN #1	395	395	395	237	237	237	237	237	237	237	395	395
22020	HAM LAKE MN #1	9,097	9,097	9,097	5,458	5,458	5,458	5,458	5,458	5,458	5,458	9,097	9,097
1294	HANCOCK MN #1	353	353	353	212	212	212	212	212	212	212	353	353

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Delivery Point Listing

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1296	HARTLAND MN #1	168	168	168	101	101	101	101	101	101	101	168	168
1303	HASTINGS MN #1	13,445	13,445	13,445	8,067	8,067	8,067	8,067	8,067	8,067	8,067	13,445	13,445
15721	HASTINGS MN #1A	445	445	445	267	267	267	267	267	267	267	445	445
22927	HASTINGS MN #1B (COTTAGE GROVE)	377	377	377	226	226	226	226	226	226	226	377	377
1312	HASTINGS MN #1C	5,283	5,283	5,283	3,170	3,170	3,170	3,170	3,170	3,170	3,170	5,283	5,283
1956	HECTOR MN #1	799	799	799	479	479	479	479	479	479	479	799	799
1316	HOWARD LAKE MN #1	1,381	1,381	1,381	829	829	829	829	829	829	829	1,381	1,381
1319	IHLEN MN #1	45	45	45	27	27	27	27	27	27	27	45	45
3161	ISANTI MN #1	1,696	1,696	1,696	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,696	1,696
1322	JANESVILLE MN #1	1,044	1,044	1,044	626	626	626	626	626	626	626	1,044	1,044
1323	JASPER MN #1	354	354	354	212	212	212	212	212	212	212	354	354
1328	JORDAN MN #2	4,054	4,054	4,054	2,432	2,432	2,432	2,432	2,432	2,432	2,432	4,054	4,054
3162	KIMBALL MN #1	460	460	460	276	276	276	276	276	276	276	460	460
1330	LAKE CRYSTAL MN #1	969	969	969	581	581	581	581	581	581	581	969	969
79366	LAKE CRYSTAL MN #1-S	185	185	185	111	111	111	111	111	111	111	185	185
1332	LAKE CRYSTAL MN #2	84	84	84	50	50	50	50	50	50	50	84	84
61632	LASTRUP MN #1	3,732	3,732	3,732	2,239	2,239	2,239	2,239	2,239	2,239	2,239	3,732	3,732
1334	LE CENTER MN #1	1,188	1,188	1,188	713	713	713	713	713	713	713	1,188	1,188
79367	LE CENTER MN #1-S	124	124	124	74	74	74	74	74	74	74	124	124
1336	LE SUEUR MN #1	2,832	2,832	2,832	1,699	1,699	1,699	1,699	1,699	1,699	1,699	2,832	2,832
1342	LESTER PRAIRIE MN #1	913	913	913	548	548	548	548	548	548	548	913	913
1345	LEWISVILLE MN #1	165	165	165	99	99	99	99	99	99	99	165	165
3163	LEXINGTON MN #1	11,339	11,339	11,339	6,803	6,803	6,803	6,803	6,803	6,803	6,803	11,339	11,339
3164	LEXINGTON MN #1A	5,131	5,131	5,131	3,079	3,079	3,079	3,079	3,079	3,079	3,079	5,131	5,131
1346	LITCHFIELD MN #1	4,291	4,291	4,291	2,574	2,574	2,574	2,574	2,574	2,574	2,574	4,291	4,291
1347	LITTLE FALLS MN #1	4,826	4,826	4,826	2,896	2,896	2,896	2,896	2,896	2,896	2,896	4,826	4,826

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Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Delivery Point Listing

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1353	LITTLE FALLS MN #1A	89	89	89	53	53	53	53	53	53	53	89	89
1355	LONG PRAIRIE MN #1	2,205	2,205	2,205	1,323	1,323	1,323	1,323	1,323	1,323	1,323	2,205	2,205
1354	LONSDALE MN #1	2,485	2,485	2,485	1,491	1,491	1,491	1,491	1,491	1,491	1,491	2,485	2,485
1356	LOWRY MN #1	218	218	218	131	131	131	131	131	131	131	218	218
1358	LUVERNE MN #1	2,623	2,623	2,623	1,573	1,573	1,573	1,573	1,573	1,573	1,573	2,623	2,623
1359	MADELIA MN #1	1,501	1,501	1,501	901	901	901	901	901	901	901	1,501	1,501
79330	MADELIA MN #1-S	221	221	221	133	133	133	133	133	133	133	221	221
1373	MANKATO MN #1	9,802	9,802	9,802	5,881	5,881	5,881	5,881	5,881	5,881	5,881	9,802	9,802
2775	MANKATO MN #1A	15,575	15,575	15,575	9,345	9,345	9,345	9,345	9,345	9,345	9,345	15,575	15,575
79305	MANKATO MN #1A-S	1,358	1,358	1,358	815	815	815	815	815	815	815	1,358	1,358
79368	MANKATO MN #5-S	200	200	200	120	120	120	120	120	120	120	200	200
3165	MAPLE LAKE MN #1	2,127	2,127	2,127	1,276	1,276	1,276	1,276	1,276	1,276	1,276	2,127	2,127
25969	MAYER MN 1	2,635	2,635	2,635	1,581	1,581	1,581	1,581	1,581	1,581	1,581	2,635	2,635
1401	MEDFORD MN #1	581	581	581	349	349	349	349	349	349	349	581	581
1405	MELROSE MN #1	1,720	1,720	1,720	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,720	1,720
1436	MINNEAPOLIS MN #1D	186,040	186,040	186,040	111,625	111,625	111,625	111,625	111,625	111,625	111,625	186,040	186,040
25968	MINNEAPOLIS MN #1E	5,700	5,700	5,700	3,420	3,420	3,420	3,420	3,420	3,420	3,420	5,700	5,700
1442	MINNEAPOLIS MN #1G	13,622	13,622	13,622	8,173	8,173	8,173	8,173	8,173	8,173	8,173	13,622	13,622
1450	MINNEAPOLIS MN #1H	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
12933	MINNEAPOLIS MN #1K	4,811	4,811	4,811	2,887	2,887	2,887	2,887	2,887	2,887	2,887	4,811	4,811
1455	MINNEAPOLIS MN #1P	111,179	111,179	111,179	66,709	66,709	66,709	66,709	66,709	66,709	66,709	111,179	111,179
2774	MINNEAPOLIS MN #1Q	190,945	190,945	190,945	114,567	114,567	114,567	114,567	114,567	114,567	114,567	190,945	190,945
1462	MINNEAPOLIS MN #1R	107,417	107,417	107,417	64,450	64,450	64,450	64,450	64,450	64,450	64,450	107,417	107,417
56628	MINNETRISTA MN #1	21,849	21,849	21,849	13,109	13,109	13,109	13,109	13,109	13,109	13,109	21,849	21,849
1470	MONTGOMERY MN #1	1,338	1,338	1,338	803	803	803	803	803	803	803	1,338	1,338
3166	MONTICELLO MN #1	8,794	8,794	8,794	5,277	5,277	5,277	5,277	5,277	5,277	5,277	8,794	8,794
1471	MORRIS MN #1	2,791	2,791	2,791	1,675	1,675	1,675	1,675	1,675	1,675	1,675	2,791	2,791

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Delivery Point Listing
 Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1473	MORRIS MN #2	24	24	24	14	14	14	14	14	14	14	24	24
1474	MORRISTOWN MN #1	405	405	405	243	243	243	243	243	243	243	405	405
1476	MOUND VILLAGE MN #1	9,415	9,415	9,415	5,649	5,649	5,649	5,649	5,649	5,649	5,649	9,415	9,415
1477	NELSON MN #1	118	118	118	71	71	71	71	71	71	71	118	118
1456	NEW PRAGUE MN #1	2,461	2,461	2,461	1,477	1,477	1,477	1,477	1,477	1,477	1,477	2,461	2,461
79308	NEW PRAGUE MN #1-S	2,629	2,629	2,629	1,577	1,577	1,577	1,577	1,577	1,577	1,577	2,629	2,629
60077	NICOLLET MN #1	650	650	650	390	390	390	390	390	390	390	650	650
1460	NORWOOD-Y.A. MN	4,696	4,696	4,696	2,818	2,818	2,818	2,818	2,818	2,818	2,818	4,696	4,696
1466	OLIVIA MN #1	1,449	1,449	1,449	869	869	869	869	869	869	869	1,449	1,449
1468	OSAKIS MN #1	1,047	1,047	1,047	628	628	628	628	628	628	628	1,047	1,047
1472	PAYNESVILLE MN #1	1,993	1,993	1,993	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,993	1,993
1475	PIERZ MN #1	1,204	1,204	1,204	722	722	722	722	722	722	722	1,204	1,204
1478	PIPESTONE MN #1	3,415	3,415	3,415	2,049	2,049	2,049	2,049	2,049	2,049	2,049	3,415	3,415
1479	PLATO MN #1	237	237	237	142	142	142	142	142	142	142	237	237
3167	PRINCETON MN #1	4,205	4,205	4,205	2,523	2,523	2,523	2,523	2,523	2,523	2,523	4,205	4,205
1480	PRIOR LAKE MN #1	8,037	8,037	8,037	4,822	4,822	4,822	4,822	4,822	4,822	4,822	8,037	8,037
60093	PRIOR LAKE MN #1 D	100	100	100	60	60	60	60	60	60	60	100	100
60092	PRIOR LAKE MN #1 E	100	100	100	60	60	60	60	60	60	60	100	100
12934	PRIOR LAKE MN #1A	1,489	1,489	1,489	893	893	893	893	893	893	893	1,489	1,489
59674	PRIOR LAKE MN #1C	100	100	100	60	60	60	60	60	60	60	100	100
1481	RANDOLPH MN #1	436	436	436	262	262	262	262	262	262	262	436	436
1417	RICHMOND MN #1	652	652	652	391	391	391	391	391	391	391	652	652
1421	ROCKFORD MN #1	1,937	1,937	1,937	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,937	1,937
1423	ROCKVILLE MN #1	956	956	956	574	574	574	574	574	574	574	956	956
1427	ROSCOE MN #1	79	79	79	47	47	47	47	47	47	47	79	79
1398	SAUK CENTRE MN #1	2,714	2,714	2,714	1,628	1,628	1,628	1,628	1,628	1,628	1,628	2,714	2,714
2141	SAVAGE MN #1E	9,056	9,056	9,056	5,434	5,434	5,434	5,434	5,434	5,434	5,434	9,056	9,056

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1407	SILVER LAKE MN #1	567	567	567	340	340	340	340	340	340	340	567	567
1410	SLEEPY EYE MN #1	1,986	1,986	1,986	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,986	1,986
79331	SLEEPY EYE MN #1-S	162	162	162	97	97	97	97	97	97	97	162	162
1415	SLEEPY EYE MN #2	18	18	18	11	11	11	11	11	11	11	18	18
3168	SOUTH HAVEN MN #1	176	176	176	106	106	106	106	106	106	106	176	176
3169	SOUTH HAVEN MN #1A	10	10	10	6	6	6	6	6	6	6	10	10
3170	SPRING LAKE PARK MN #1	7,539	7,539	7,539	4,523	4,523	4,523	4,523	4,523	4,523	4,523	7,539	7,539
1419	SPRINGFIELD MN #1	1,483	1,483	1,483	890	890	890	890	890	890	890	1,483	1,483
79332	SPRINGFIELD MN #1-S	198	198	198	119	119	119	119	119	119	119	198	198
1430	ST BONIFACIUS MN #1	2,241	2,241	2,241	1,345	1,345	1,345	1,345	1,345	1,345	1,345	2,241	2,241
1433	ST. JAMES MN #1	2,345	2,345	2,345	1,407	1,407	1,407	1,407	1,407	1,407	1,407	2,345	2,345
79333	ST. JAMES MN #1-S	142	142	142	85	85	85	85	85	85	85	142	142
1437	ST. MICHAEL MN #1	14,615	14,615	14,615	8,770	8,770	8,770	8,770	8,770	8,770	8,770	14,615	14,615
12935	ST. MICHAEL MN #1A	4,888	4,888	4,888	2,933	2,933	2,933	2,933	2,933	2,933	2,933	4,888	4,888
1440	ST. PETER MN #1	4,389	4,389	4,389	2,633	2,633	2,633	2,633	2,633	2,633	2,633	4,389	4,389
79309	ST. PETER MN #1-S	3,181	3,181	3,181	1,909	1,909	1,909	1,909	1,909	1,909	1,909	3,181	3,181
1441	ST. PETER MN #2	80	80	80	48	48	48	48	48	48	48	80	80
79369	ST. PETER MN #2-S	224	224	224	134	134	134	134	134	134	134	224	224
3171	STANCHFIELD MN #1	116	116	116	70	70	70	70	70	70	70	116	116
1424	STARBUCK MN #1	1,169	1,169	1,169	701	701	701	701	701	701	701	1,169	1,169
1432	VESELI MN #1	87	87	87	52	52	52	52	52	52	52	87	87
1435	WACONIA MN #1	8,855	8,855	8,855	5,313	5,313	5,313	5,313	5,313	5,313	5,313	8,855	8,855
1439	WACONIA MN #1A	1,030	1,030	1,030	618	618	618	618	618	618	618	1,030	1,030
12937	WACONIA MN #3	195	195	195	117	117	117	117	117	117	117	195	195
15729	WASECA MN #1	509	509	509	305	305	305	305	305	305	305	509	509
1375	WASECA MN #1A	7,059	7,059	7,059	4,235	4,235	4,235	4,235	4,235	4,235	4,235	7,059	7,059
1379	WASECA MN #1B	141	141	141	85	85	85	85	85	85	85	141	141

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Appendix B

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TFX Rate Schedule

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2019 through 10/31/2023

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1381	WASECA MN #2	328	328	328	197	197	197	197	197	197	197	328	328
1383	WATERVILLE MN #1	944	944	944	566	566	566	566	566	566	566	944	944
3173	WATKINS MN #1	1,409	1,409	1,409	846	846	846	846	846	846	846	1,409	1,409
1387	WILLMAR MN #1	16,558	16,558	16,558	9,936	9,936	9,936	9,936	9,936	9,936	9,936	16,558	16,558
1389	WINNEBAGO MN #1	1,257	1,257	1,257	754	754	754	754	754	754	754	1,257	1,257
1392	WINSTED MN #1	1,836	1,836	1,836	1,101	1,101	1,101	1,101	1,101	1,101	1,101	1,836	1,836
1394	WINTHROP MN #1	876	876	876	526	526	526	526	526	526	526	876	876
22019	ZIMMERMAN MN #1	6,205	6,205	6,205	3,723	3,723	3,723	3,723	3,723	3,723	3,723	6,205	6,205
Total ZONE EF CENTERPOINT ENERGY MINNESOTA GAS		1,180,290	1,180,290	1,180,290	708,174	708,174	708,174	708,174	708,174	708,174	708,174	1,180,290	1,180,290
Total		1,180,290	1,180,290	1,180,290	708,174	708,174	708,174	708,174	708,174	708,174	708,174	1,180,290	1,180,290

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Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
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Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Delivery Point Listing

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ZONE EF CENTERPOINT ENERGY MINNESOTA GAS													
1236	ALBANY MN #1	1,382	1,382	1,382	829	829	829	829	829	829	829	1,382	1,382
1241	ALEXANDRIA MN #1	11,607	11,607	11,607	6,964	6,964	6,964	6,964	6,964	6,964	6,964	11,607	11,607
1955	AMBOY MN #1	317	317	317	190	190	190	190	190	190	190	317	317
53956	ANNANDALE (MALCO MANUFACTURING)	35	35	35	21	21	21	21	21	21	21	35	35
3136	ANNANDALE MN #1	3,440	3,440	3,440	2,064	2,064	2,064	2,064	2,064	2,064	2,064	3,440	3,440
2295	ANOKA MN #1	29,654	29,654	29,654	17,793	17,793	17,793	17,793	17,793	17,793	17,793	29,654	29,654
3137	ANOKA MN #1A	8,492	8,492	8,492	5,095	5,095	5,095	5,095	5,095	5,095	5,095	8,492	8,492
1243	ARLINGTON MN #1	1,009	1,009	1,009	605	605	605	605	605	605	605	1,009	1,009
1247	ATWATER MN #1	1,898	1,898	1,898	1,139	1,139	1,139	1,139	1,139	1,139	1,139	1,898	1,898
22017	AVON - ST JOHN MN #1	1,478	1,478	1,478	887	887	887	887	887	887	887	1,478	1,478
1248	BELLE PLAINE MN #1	2,702	2,702	2,702	1,621	1,621	1,621	1,621	1,621	1,621	1,621	2,702	2,702
79306	BELLE PLAINE MN #1-S	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
1251	BENSON MN #1	4,365	4,365	4,365	2,619	2,619	2,619	2,619	2,619	2,619	2,619	4,365	4,365
3138	BIG LAKE MN #1	6,757	6,757	6,757	4,055	4,055	4,055	4,055	4,055	4,055	4,055	6,757	6,757
3139	BIG LAKE MN #2	461	461	461	277	277	277	277	277	277	277	461	461
2296	BLAINE MN #1	8,778	8,778	8,778	5,267	5,267	5,267	5,267	5,267	5,267	5,267	8,778	8,778
3140	BLAINE MN #1A	11,758	11,758	11,758	7,054	7,054	7,054	7,054	7,054	7,054	7,054	11,758	11,758
1252	BLUE EARTH MN #1	2,255	2,255	2,255	1,353	1,353	1,353	1,353	1,353	1,353	1,353	2,255	2,255
3143	BRAHAM MN #1	723	723	723	434	434	434	434	434	434	434	723	723
1255	BRAINERD MN #1	12,295	12,295	12,295	7,377	7,377	7,377	7,377	7,377	7,377	7,377	12,295	12,295
1256	BROWERVILLE MN #1	409	409	409	245	245	245	245	245	245	245	409	409
61633	BUCKMAN MN #1	208	208	208	125	125	125	125	125	125	125	208	208
3144	BUFFALO MN #1	8,683	8,683	8,683	5,210	5,210	5,210	5,210	5,210	5,210	5,210	8,683	8,683
57419	CAMBRIDGE #4 (WILLIAM KAST)	6	6	6	4	4	4	4	4	4	4	6	6
3146	CAMBRIDGE MN #1	5,527	5,527	5,527	3,316	3,316	3,316	3,316	3,316	3,316	3,316	5,527	5,527

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TFX Rate Schedule

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

MAXIMUM VOLUMES (DTH)

DELIVERY POINT DESCRIPTION:

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3147	CAMBRIDGE MN #1A	37	37	37	22	22	22	22	22	22	22	37	37
3148	CAMBRIDGE MN #2	42	42	42	25	25	25	25	25	25	25	42	42
57837	CENTERVILLE MN #1	3,148	3,148	3,148	1,888	1,888	1,888	1,888	1,888	1,888	1,888	3,148	3,148
1261	CLEVELAND MN #1	264	264	264	158	158	158	158	158	158	158	264	264
1262	COATES MN #1	1,196	1,196	1,196	718	718	718	718	718	718	718	1,196	1,196
1268	COKATO MN #1	1,420	1,420	1,420	852	852	852	852	852	852	852	1,420	1,420
1274	COLD SPRING MN #1	2,942	2,942	2,942	1,765	1,765	1,765	1,765	1,765	1,765	1,765	2,942	2,942
1271	COLOGNE MN #1	2,391	2,391	2,391	1,435	1,435	1,435	1,435	1,435	1,435	1,435	2,391	2,391
2294	COON RAPIDS MN #1	18,445	18,445	18,445	11,067	11,067	11,067	11,067	11,067	11,067	11,067	18,445	18,445
78860	CORCORAN MN #1	40,000	40,000	40,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	40,000	40,000
79365	CREDIT RIVER MN #1	22,000	22,000	22,000	13,200	13,200	13,200	13,200	13,200	13,200	13,200	22,000	22,000
1276	CYRUS MN #1	157	157	157	94	94	94	94	94	94	94	157	157
1277	DASSELL MN #1	792	792	792	475	475	475	475	475	475	475	792	792
3153	DAYTON MN #1	36,528	36,528	36,528	21,916	21,916	21,916	21,916	21,916	21,916	21,916	36,528	36,528
1278	EAGLE LAKE MN #1	612	612	612	367	367	367	367	367	367	367	612	612
79307	EAGLE LAKE MN #1-S	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
3154	ELK RIVER MN #1	7,605	7,605	7,605	4,563	4,563	4,563	4,563	4,563	4,563	4,563	7,605	7,605
3156	ELK RIVER MN #1B	2,032	2,032	2,032	1,219	1,219	1,219	1,219	1,219	1,219	1,219	2,032	2,032
3158	ELK RIVER MN #3	2,000	2,000	2,000	1,200	1,200	1,200	1,200	1,200	1,200	1,200	2,000	2,000
1279	FREEMONT MN #1	608	608	608	365	365	365	365	365	365	365	608	608
1282	GAYLORD MN #1	1,700	1,700	1,700	1,020	1,020	1,020	1,020	1,020	1,020	1,020	1,700	1,700
1287	GLENCOE MN #1	3,269	3,269	3,269	1,961	1,961	1,961	1,961	1,961	1,961	1,961	3,269	3,269
1289	GLENWOOD MN #1	2,240	2,240	2,240	1,344	1,344	1,344	1,344	1,344	1,344	1,344	2,240	2,240
3159	GRANDY MN #1	65	65	65	39	39	39	39	39	39	39	65	65
3160	GRASSTON MN #1	135	135	135	81	81	81	81	81	81	81	135	135
1292	GROVE CITY MN #1	395	395	395	237	237	237	237	237	237	237	395	395
22020	HAM LAKE MN #1	9,097	9,097	9,097	5,458	5,458	5,458	5,458	5,458	5,458	5,458	9,097	9,097

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TFX Rate Schedule

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1294	HANCOCK MN #1	353	353	353	212	212	212	212	212	212	212	353	353
1296	HARTLAND MN #1	168	168	168	101	101	101	101	101	101	101	168	168
1303	HASTINGS MN #1	13,445	13,445	13,445	8,067	8,067	8,067	8,067	8,067	8,067	8,067	13,445	13,445
15721	HASTINGS MN #1A	445	445	445	267	267	267	267	267	267	267	445	445
22927	HASTINGS MN #1B (COTTAGE GROVE)	377	377	377	226	226	226	226	226	226	226	377	377
1312	HASTINGS MN #1C	5,283	5,283	5,283	3,170	3,170	3,170	3,170	3,170	3,170	3,170	5,283	5,283
1956	HECTOR MN #1	799	799	799	479	479	479	479	479	479	479	799	799
1316	HOWARD LAKE MN #1	1,381	1,381	1,381	829	829	829	829	829	829	829	1,381	1,381
1319	IHLEN MN #1	45	45	45	27	27	27	27	27	27	27	45	45
3161	ISANTI MN #1	1,696	1,696	1,696	1,018	1,018	1,018	1,018	1,018	1,018	1,018	1,696	1,696
1322	JANESVILLE MN #1	1,044	1,044	1,044	626	626	626	626	626	626	626	1,044	1,044
1323	JASPER MN #1	354	354	354	212	212	212	212	212	212	212	354	354
1328	JORDAN MN #2	4,054	4,054	4,054	2,432	2,432	2,432	2,432	2,432	2,432	2,432	4,054	4,054
3162	KIMBALL MN #1	460	460	460	276	276	276	276	276	276	276	460	460
1330	LAKE CRYSTAL MN #1	969	969	969	581	581	581	581	581	581	581	969	969
79366	LAKE CRYSTAL MN #1-S	185	185	185	111	111	111	111	111	111	111	185	185
1332	LAKE CRYSTAL MN #2	84	84	84	50	50	50	50	50	50	50	84	84
61632	LAstrup MN #1	3,732	3,732	3,732	2,239	2,239	2,239	2,239	2,239	2,239	2,239	3,732	3,732
1334	LE CENTER MN #1	1,188	1,188	1,188	713	713	713	713	713	713	713	1,188	1,188
79367	LE CENTER MN #1-S	124	124	124	74	74	74	74	74	74	74	124	124
1336	LE SUEUR MN #1	2,832	2,832	2,832	1,699	1,699	1,699	1,699	1,699	1,699	1,699	2,832	2,832
1342	LESTER PRAIRIE MN #1	913	913	913	548	548	548	548	548	548	548	913	913
1345	LEWISVILLE MN #1	165	165	165	99	99	99	99	99	99	99	165	165
3163	LEXINGTON MN #1	11,339	11,339	11,339	6,803	6,803	6,803	6,803	6,803	6,803	6,803	11,339	11,339
3164	LEXINGTON MN #1A	5,131	5,131	5,131	3,079	3,079	3,079	3,079	3,079	3,079	3,079	5,131	5,131
1346	LITCHFIELD MN #1	4,291	4,291	4,291	2,574	2,574	2,574	2,574	2,574	2,574	2,574	4,291	4,291

Appendix B

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Contract No: TBD

Request No. TBD

Amendment No. 1

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1347	LITTLE FALLS MN #1	4,826	4,826	4,826	2,896	2,896	2,896	2,896	2,896	2,896	2,896	4,826	4,826
1353	LITTLE FALLS MN #1A	89	89	89	53	53	53	53	53	53	53	89	89
1355	LONG PRAIRIE MN #1	2,205	2,205	2,205	1,323	1,323	1,323	1,323	1,323	1,323	1,323	2,205	2,205
1354	LONSDALE MN #1	2,485	2,485	2,485	1,491	1,491	1,491	1,491	1,491	1,491	1,491	2,485	2,485
1356	LOWRY MN #1	218	218	218	131	131	131	131	131	131	131	218	218
1358	LUVERNE MN #1	2,623	2,623	2,623	1,573	1,573	1,573	1,573	1,573	1,573	1,573	2,623	2,623
1359	MADELIA MN #1	1,501	1,501	1,501	901	901	901	901	901	901	901	1,501	1,501
79330	MADELIA MN #1-S	221	221	221	133	133	133	133	133	133	133	221	221
1373	MANKATO MN #1	9,802	9,802	9,802	5,881	5,881	5,881	5,881	5,881	5,881	5,881	9,802	9,802
2775	MANKATO MN #1A	15,575	15,575	15,575	9,345	9,345	9,345	9,345	9,345	9,345	9,345	15,575	15,575
79305	MANKATO MN #1A-S	1,358	1,358	1,358	815	815	815	815	815	815	815	1,358	1,358
79368	MANKATO MN #5-S	200	200	200	120	120	120	120	120	120	120	200	200
3165	MAPLE LAKE MN #1	2,127	2,127	2,127	1,276	1,276	1,276	1,276	1,276	1,276	1,276	2,127	2,127
25969	MAYER MN 1	2,635	2,635	2,635	1,581	1,581	1,581	1,581	1,581	1,581	1,581	2,635	2,635
1401	MEDFORD MN #1	581	581	581	349	349	349	349	349	349	349	581	581
1405	MELROSE MN #1	1,720	1,720	1,720	1,032	1,032	1,032	1,032	1,032	1,032	1,032	1,720	1,720
1436	MINNEAPOLIS MN #1D	186,040	186,040	186,040	111,625	111,625	111,625	111,625	111,625	111,625	111,625	186,040	186,040
25968	MINNEAPOLIS MN #1E	5,700	5,700	5,700	3,420	3,420	3,420	3,420	3,420	3,420	3,420	5,700	5,700
1442	MINNEAPOLIS MN #1G	13,622	13,622	13,622	8,173	8,173	8,173	8,173	8,173	8,173	8,173	13,622	13,622
1450	MINNEAPOLIS MN #1H	1,000	1,000	1,000	600	600	600	600	600	600	600	1,000	1,000
12933	MINNEAPOLIS MN #1K	4,811	4,811	4,811	2,887	2,887	2,887	2,887	2,887	2,887	2,887	4,811	4,811
1455	MINNEAPOLIS MN #1P	111,179	111,179	111,179	66,709	66,709	66,709	66,709	66,709	66,709	66,709	111,179	111,179
2774	MINNEAPOLIS MN #1Q	190,945	190,945	190,945	114,567	114,567	114,567	114,567	114,567	114,567	114,567	190,945	190,945
1462	MINNEAPOLIS MN #1R	107,417	107,417	107,417	64,450	64,450	64,450	64,450	64,450	64,450	64,450	107,417	107,417
56628	MINNETRISTA MN #1	21,849	21,849	21,849	13,109	13,109	13,109	13,109	13,109	13,109	13,109	21,849	21,849
1470	MONTGOMERY MN #1	1,338	1,338	1,338	803	803	803	803	803	803	803	1,338	1,338
3166	MONTICELLO MN #1	8,794	8,794	8,794	5,277	5,277	5,277	5,277	5,277	5,277	5,277	8,794	8,794

Contract No: TBD
Request No. TBD
Amendment No. 1

Appendix B

Firm Throughput Service Agreement
TFX Rate Schedule

Delivery Point Listing
Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1471	MORRIS MN #1	2,791	2,791	2,791	1,675	1,675	1,675	1,675	1,675	1,675	1,675	2,791	2,791
1473	MORRIS MN #2	24	24	24	14	14	14	14	14	14	14	24	24
1474	MORRISTOWN MN #1	405	405	405	243	243	243	243	243	243	243	405	405
1476	MOUND VILLAGE MN #1	9,415	9,415	9,415	5,649	5,649	5,649	5,649	5,649	5,649	5,649	9,415	9,415
1477	NELSON MN #1	118	118	118	71	71	71	71	71	71	71	118	118
1456	NEW PRAGUE MN #1	2,461	2,461	2,461	1,477	1,477	1,477	1,477	1,477	1,477	1,477	2,461	2,461
79308	NEW PRAGUE MN #1-S	2,629	2,629	2,629	1,577	1,577	1,577	1,577	1,577	1,577	1,577	2,629	2,629
60077	NICOLLET MN #1	650	650	650	390	390	390	390	390	390	390	650	650
1460	NORWOOD-Y.A. MN	4,696	4,696	4,696	2,818	2,818	2,818	2,818	2,818	2,818	2,818	4,696	4,696
1466	OLIVIA MN #1	1,449	1,449	1,449	869	869	869	869	869	869	869	1,449	1,449
1468	OSAKIS MN #1	1,047	1,047	1,047	628	628	628	628	628	628	628	1,047	1,047
1472	PAYNESVILLE MN #1	1,993	1,993	1,993	1,196	1,196	1,196	1,196	1,196	1,196	1,196	1,993	1,993
1475	PIERZ MN #1	1,204	1,204	1,204	722	722	722	722	722	722	722	1,204	1,204
1478	PIPESTONE MN #1	3,415	3,415	3,415	2,049	2,049	2,049	2,049	2,049	2,049	2,049	3,415	3,415
1479	PLATO MN #1	237	237	237	142	142	142	142	142	142	142	237	237
3167	PRINCETON MN #1	4,205	4,205	4,205	2,523	2,523	2,523	2,523	2,523	2,523	2,523	4,205	4,205
1480	PRIOR LAKE MN #1	8,037	8,037	8,037	4,822	4,822	4,822	4,822	4,822	4,822	4,822	8,037	8,037
60093	PRIOR LAKE MN #1 D	100	100	100	60	60	60	60	60	60	60	100	100
60092	PRIOR LAKE MN #1 E	100	100	100	60	60	60	60	60	60	60	100	100
12934	PRIOR LAKE MN #1A	1,489	1,489	1,489	893	893	893	893	893	893	893	1,489	1,489
59674	PRIOR LAKE MN #1C	100	100	100	60	60	60	60	60	60	60	100	100
1481	RANDOLPH MN #1	436	436	436	262	262	262	262	262	262	262	436	436
1417	RICHMOND MN #1	652	652	652	391	391	391	391	391	391	391	652	652
1421	ROCKFORD MN #1	1,937	1,937	1,937	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,937	1,937
1423	ROCKVILLE MN #1	956	956	956	574	574	574	574	574	574	574	956	956
1427	ROSCOE MN #1	79	79	79	47	47	47	47	47	47	47	79	79
1398	SAUK CENTRE MN #1	2,714	2,714	2,714	1,628	1,628	1,628	1,628	1,628	1,628	1,628	2,714	2,714

Appendix B

Firm Throughput Service Agreement

TFX Rate Schedule

Contract No: TBD
Request No. TBD
Amendment No. 1

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS
Delivery Point Listing

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION:

MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2141	SAVAGE MN #1E	9,056	9,056	9,056	5,434	5,434	5,434	5,434	5,434	5,434	5,434	9,056	9,056
1407	SILVER LAKE MN #1	567	567	567	340	340	340	340	340	340	340	567	567
1410	SLEEPY EYE MN #1	1,986	1,986	1,986	1,192	1,192	1,192	1,192	1,192	1,192	1,192	1,986	1,986
79331	SLEEPY EYE MN #1-S	162	162	162	97	97	97	97	97	97	97	162	162
1415	SLEEPY EYE MN #2	18	18	18	11	11	11	11	11	11	11	18	18
3168	SOUTH HAVEN MN #1	176	176	176	106	106	106	106	106	106	106	176	176
3169	SOUTH HAVEN MN #1A	10	10	10	6	6	6	6	6	6	6	10	10
3170	SPRING LAKE PARK MN #1	7,539	7,539	7,539	4,523	4,523	4,523	4,523	4,523	4,523	4,523	7,539	7,539
1419	SPRINGFIELD MN #1	1,483	1,483	1,483	890	890	890	890	890	890	890	1,483	1,483
79332	SPRINGFIELD MN #1-S	198	198	198	119	119	119	119	119	119	119	198	198
1430	ST BONIFACIUS MN #1	2,241	2,241	2,241	1,345	1,345	1,345	1,345	1,345	1,345	1,345	2,241	2,241
1433	ST. JAMES MN #1	2,345	2,345	2,345	1,407	1,407	1,407	1,407	1,407	1,407	1,407	2,345	2,345
79333	ST. JAMES MN #1-S	142	142	142	85	85	85	85	85	85	85	142	142
1437	ST. MICHAEL MN #1	14,615	14,615	14,615	8,770	8,770	8,770	8,770	8,770	8,770	8,770	14,615	14,615
12935	ST. MICHAEL MN #1A	4,888	4,888	4,888	2,933	2,933	2,933	2,933	2,933	2,933	2,933	4,888	4,888
1440	ST. PETER MN #1	4,389	4,389	4,389	2,633	2,633	2,633	2,633	2,633	2,633	2,633	4,389	4,389
79309	ST. PETER MN #1-S	3,181	3,181	3,181	1,909	1,909	1,909	1,909	1,909	1,909	1,909	3,181	3,181
1441	ST. PETER MN #2	80	80	80	48	48	48	48	48	48	48	80	80
79369	ST. PETER MN #2-S	224	224	224	134	134	134	134	134	134	134	224	224
3171	STANCHFIELD MN #1	116	116	116	70	70	70	70	70	70	70	116	116
1424	STARBUCK MN #1	1,169	1,169	1,169	701	701	701	701	701	701	701	1,169	1,169
1432	VESELI MN #1	87	87	87	52	52	52	52	52	52	52	87	87
1435	WACONIA MN #1	8,855	8,855	8,855	5,313	5,313	5,313	5,313	5,313	5,313	5,313	8,855	8,855
1439	WACONIA MN #1A	1,030	1,030	1,030	618	618	618	618	618	618	618	1,030	1,030
12937	WACONIA MN #3	195	195	195	117	117	117	117	117	117	117	195	195
15729	WASECA MN #1	509	509	509	305	305	305	305	305	305	305	509	509
1375	WASECA MN #1A	7,059	7,059	7,059	4,235	4,235	4,235	4,235	4,235	4,235	4,235	7,059	7,059

Contract No: TBD
Request No. TBD
Amendment No. 1

Appendix B
Firm Throughput Service Agreement
TEF Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS
Delivery Point Listing

Term: 11/01/2023 through 10/31/2034

DELIVERY POINT DESCRIPTION: MAXIMUM VOLUMES (DTH)

POI #	Delivery Points Served	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1379	WASECA MN #1B	141	141	141	85	85	85	85	85	85	85	141	141
1381	WASECA MN #2	328	328	328	197	197	197	197	197	197	197	328	328
1383	WATERVILLE MN #1	944	944	944	566	566	566	566	566	566	566	944	944
3173	WATKINS MN #1	1,409	1,409	1,409	846	846	846	846	846	846	846	1,409	1,409
1387	WILLMAR MN #1	16,558	16,558	16,558	9,936	9,936	9,936	9,936	9,936	9,936	9,936	16,558	16,558
1389	WINNEBAGO MN #1	1,257	1,257	1,257	754	754	754	754	754	754	754	1,257	1,257
1392	WINSTED MN #1	1,836	1,836	1,836	1,101	1,101	1,101	1,101	1,101	1,101	1,101	1,836	1,836
1394	WINTHROP MN #1	876	876	876	526	526	526	526	526	526	526	876	876
22019	ZIMMERMAN MN #1	6,205	6,205	6,205	3,723	3,723	3,723	3,723	3,723	3,723	3,723	6,205	6,205
Total ZONE EF CENTERPOINT													
ENERGY MINNESOTA GAS 1,202,290 1,202,290 1,202,290		1,202,290	1,202,290	1,202,290	721,374	721,374	721,374	721,374	721,374	721,374	721,374	1,202,290	1,202,290
Total 1,202,290 1,202,290 1,202,290		1,202,290	1,202,290	1,202,290	721,374	721,374	721,374	721,374	721,374	721,374	721,374	1,202,290	1,202,290

Exhibit B
TBPL Amendment

NORTHERN NATURAL GAS COMPANY
Amendment to TFX Throughput Service Agreement

Date: TBD

Shipper Name: CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas

Contract No.: 111461 (Agreement)

Amendment No.: TBD

The above-referenced Agreement is amended as follows:

This Amendment supersedes all previous amendments.

1. The volume, term, and/or point provisions are amended as follows:
 - a. The term of the Agreement is extended through 03/31/2034.
 - b. At any time during the current term of the Agreement but no fewer than six (6) months prior to the end of the then current term (Negotiation Period), Northern and Shipper shall negotiate in good faith on a rate, volume and term for a successive contract extension. If Shipper and Northern are unable to negotiate an agreed upon rate, volume and term before the end of the Negotiation Period, the Agreement will be extended at Northern's maximum rates for the next November through March period, unless Shipper provides Northern written notice to terminate this Agreement within 5 business days after the end of the Negotiation Period.
 - c. The contract maximum daily quantities, primary receipt and delivery points, and terms are set forth on Appendix "A."
 - d. Appendix "A" to the Agreement is deleted in its entirety and the Appendix "A" attached hereto and incorporated herein by reference is substituted therefor. All references to Appendix "A" shall be deemed to refer to the Appendix "A" attached hereto.
2. For the period beginning 11/01/2018 and ending 03/31/2034, the rate provisions are amended as follows:
 - a. The Total Monthly Charge for the Contract MDQ will be the MDQ multiplied by

\$0.1500/DTH (rate) multiplied by the applicable number of days in the month and will include all applicable surcharges. Northern will allocate the discounted rate by charging the minimum commodity rate, all applicable surcharges and the balance as a reservation rate; provided however, none of the rate components will be above the maximum rate or below the minimum rate set forth in Northern's FERC Gas Tariff.

b. To the extent any volumes are realigned away from the primary points set forth herein, the rates for the realigned MDQ will increase to Northern's maximum reservation and commodity tariff rates for the remaining term of the Agreement.

c. In addition to the above rates, Shipper shall provide any applicable fuel use and unaccounted for.

3. The discounted rates agreed to herein are applicable to receipts from TBPL/NNG BEATRICE (POI 1318) to deliveries at NNG FIELD/MKT DEMARCATION 16B (POI 37654) (Discounted Point(s)). If on any day or days in a month, Shipper uses any of the discounted quantities at a point other than a Discounted Point, the discounted rates set forth herein will not be applicable to the quantity used at such points(s) during the month. In such event, the maximum TFX reservation rates set forth in Northern's Tariff, as revised from time to time, will apply for the entire month to the highest daily quantity of the MDQ used at such point(s) during the month. In addition, the maximum commodity rates will apply to all volumes used at non-discounted points.

4. In addition to the above rates, Shipper shall pay all FERC-approved surcharges that are made effective after the effective date of this Amendment and applicable to the service provided hereunder.

5. In no event shall the rates exceed the maximum rate or be less than the minimum rate authorized under Northern's FERC Gas Tariff, as revised from time to time. In the event the rates agreed to pursuant hereto are or become greater than the maximum or less than the minimum under Northern's FERC Gas Tariff, as revised from time to time, then Shipper agrees that Northern will immediately decrease the rate(s) herein down to the maximum or increase the rate(s) herein up to the minimum. In such event, other rate components may be adjusted upward or downward to achieve the agreed-upon overall rate, provided that the resulting rate component shall not exceed the maximum rate or be below the minimum rate applicable to the rate component.

6. Other Provisions Permitted by Tariff Under the Applicable Rate Schedule and pursuant to Section 58 of the GENERAL TERMS AND CONDITIONS of Northern's FERC Gas Tariff:

TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH, THIS PRECEDENT AGREEMENT. EACH PARTY FURTHER

WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

7. The parties agree that a facsimile or other electronic version of this document, when properly executed and transmitted, shall be considered for all purposes to be an original document, and shall be deemed for all purposes to be signed and constitute a binding agreement. The entire agreement must be faxed or transmitted to Northern. Upon Northern's acceptance and execution, an executed copy will be returned via FAX to the number appearing on the faxed offer or such other number as directed or otherwise electronically transmitted.

8. This Agreement, as amended, constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns. No promises, agreements or warranties additional to this Agreement other than as may be contained in Northern's FERC Gas Tariff will be deemed to be a part of this Agreement nor will any alteration, amendment or modification be effective unless confirmed in writing by the parties.

The effective date of this Amendment is 11/01/2018.

Except as amended herein, all provisions of the Agreement are hereby confirmed by the parties to be and remain in full force and effect.

NORTHERN NATURAL GAS COMPANY

CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA GAS

By: Exhibit – Do not Execute

By: Exhibit – Do not Execute

Title: _____

Title: _____

Date: _____

Date: _____

Contract No: 111461
Request No. TBD
Amendment No. TBD

Appendix A
Firm Throughput Service Agreement
TFX Rate Schedule

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2034

Contract Volumes (Dth):

MARKET	50,000	November through March
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Maximum Daily Quantities (Dth):

<u>Volume Type</u>	<u>From</u>	<u>Volume</u>
MDQ	November through March	50,000

Appendix A
Contract No: 111461

Firm Throughput Service Agreement
Request No. TBD

TFX Rate Schedule
Amendment No. TBD

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2034

RECEIPT AND DELIVERY POINT DESCRIPTIONS AND VOLUMES (DTH)

R/D	POI # / MIDS	Point Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
R	1318 / MID 17	TBPL/NNG BEATRICE	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
		Total Market Area Receipts	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
D	37654 / MID 16 B	NNG FIELD/MKT DEMARCATION -16B	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000
		Total Market Area Deliveries	50,000	50,000	50,000	0	0	0	0	0	0	0	50,000	50,000

Exhibit C
SMS Amendment

NORTHERN NATURAL GAS COMPANY
Amendment to SMS Throughput Service Agreement

Date: TBD

Shipper Name: CenterPoint Energy Resources Corp., d/b/a CenterPoint Energy Minnesota Gas

Contract No.: 22569 (Agreement)

Amendment No.: TBD

The above-referenced Agreement is amended as follows:

1. The volume, term, and/or point provisions are amended as follows:
 - a. The term of the Agreement is extended through 10/31/2034.
 - b. Appendix "A" to the Agreement is deleted in its entirety and the Appendix "A" attached hereto and incorporated herein by reference is substituted therefor. All references to Appendix "A" shall be deemed to refer to the Appendix "A" attached hereto.
2. Other Provisions Permitted by Tariff Under the Applicable Rate Schedule and pursuant to Section 58 of the GENERAL TERMS AND CONDITIONS of Northern's FERC Gas Tariff:

TO THE FULLEST EXTENT PERMITTED BY LAW, EACH OF THE PARTIES HERETO WAIVES ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY WITH RESPECT TO LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH, THIS PRECEDENT AGREEMENT. EACH PARTY FURTHER WAIVES ANY RIGHT TO CONSOLIDATE ANY ACTION IN WHICH A JURY TRIAL HAS BEEN WAIVED WITH ANY OTHER ACTION IN WHICH A JURY TRIAL CANNOT BE OR HAS NOT BEEN WAIVED.

3. The parties agree that a facsimile or other electronic version of this document, when properly executed and transmitted, shall be considered for all purposes to be an original document, and shall be deemed for all purposes to be signed and constitute a binding agreement. The entire agreement must be faxed or transmitted to Northern. Upon Northern's acceptance and execution, an executed copy will be returned via FAX to the number appearing on the faxed offer or such other number as directed or otherwise electronically transmitted.

4. This Agreement, as amended, constitutes the entire agreement between the parties with respect to the subject matter of this Agreement and shall be binding upon and shall inure to the benefit of the parties hereto and their respective successors and assigns. No promises, agreements or warranties additional to this Agreement other than as may be contained in Northern's FERC Gas Tariff will be deemed to be a part of this Agreement nor will any alteration, amendment or modification be effective unless confirmed in writing by the parties.

The effective date of this Amendment is 11/01/2018.

Except as amended herein, all provisions of the Agreement are hereby confirmed by the parties to be and remain in full force and effect.

NORTHERN NATURAL GAS COMPANY

CENTERPOINT ENERGY RESOURCES CORP.,
D/B/A CENTERPOINT ENERGY MINNESOTA GAS

By: ___Exhibit – Do not Execute_____

By: ___Exhibit – Do not Execute_____

Title: _____

Title: _____

Date: _____

Date: _____

Contract No: 22569
Request No. TBD
Amendment No. TBD

Appendix A
System Management Service Agreement

Shipper: CENTERPOINT ENERGY RESOURCES CORP., D/B/A CENTERPOINT ENERGY MINNESOTA GAS

Term: 11/01/2018 through 10/31/2034

Corresponding Throughput Service Agreement No.: TBD

SMS Contract Quantity: 30,000 Dth/day

<u>POI #</u>	<u>Delivery Point</u>	<u>Daily SMS Contract Quantity (Dth)</u>
3026	ZONE EF CENTERPOINT ENERGY MINNESOTA GAS	30,000
Total		30,000

Exhibit D

Credit Requirements

Credit Requirements

A. Definitions

All defined terms have the meaning set forth in Section 1 of this Precedent Agreement.

B. When Security is not Required

No Security will be required during any period of time after the execution of this Precedent Agreement and/or during the term of the TFX Service Agreement, TBPL Service Agreement or SMS Service Agreement that CenterPoint meets and maintains the creditworthiness requirements of Section 46 of the GT&C.

C. When Security is Required

1. Amount of Security To Be Provided

If CenterPoint does not meet or maintain the creditworthiness requirements of Section 46 of the GT&C at any time after the execution of this Precedent Agreement and/or during the term of the TFX Service Agreement, then, upon request by Northern, CenterPoint shall provide Security in an amount equal to the sum of the following items:

- a. For the 2019 Discount Area Expansion, the 2019 Out-State Area Expansion, and the 2023 Credit River Expansion, an amount equal to the product of (A) the Actual Costs of the Facilities associated with such projects less any Reimbursement(s) paid to Northern pursuant to Paragraph 2.j.ii. of the TFX Service Agreement, (B) the lesser of 15 or the number of full or partial calendar years remaining until 10/31/2034, and (C) 1/15 (0.0667); and subject to the return of Security provisions in C.4.c. below.

b. For the Growth Options, an amount for each applicable two-year period, equal to the product of (A) the Actual Costs of the Facilities associated with such two-year period less any contribution in aid of construction (CIAC) paid to Northern pursuant to Paragraph 3.e.ii. of the TFX Service Agreement, (B) the number of full or partial calendar years remaining until the tenth anniversary of the start date of the applicable two-year period, and (C) 1/10 (0.1000); and subject to the return of Security provisions in C.4.c. below.

c. For the TFX Service Agreement, the TBPL Service Agreement and the SMS Service Agreement, an amount equal to the amount of credit assurance authorized under Section 46 of the GT&C.

2. **Form of Security To Be Provided**

a. CenterPoint may provide a letter of credit, guaranty or cash.

b. If CenterPoint provides a letter of credit, the letter of credit shall be substantially in the form posted on Northern's website as revised from time to time and from a financial institution acceptable to Northern.

c. If CenterPoint provides a guaranty, the guaranty shall be substantially in the form posted on Northern's website as revised from time to time and executed by a guarantor that meets the creditworthiness requirements of Section 46 of the GT&C; provided that if CenterPoint provides a guaranty, the amount of the guaranty shall be in an amount equal to the Contract Value plus an amount to cover imbalances as provided in Northern's FERC Gas Tariff.

d. If CenterPoint provides cash, CenterPoint agrees to execute a Joinder in Master Escrow Agreement substantially in the form posted on Northern's website as revised from time to time.

3. **Timing of Provision of Security**

The amount of Security required under this Exhibit D will be provided within ten (10) calendar days of the date of Northern's written request.

4. **Return of Security Associated with the Actual Cost of the Project**

a. Any return of Security is conditioned upon CenterPoint (i) performing in accordance with the TFX Service Agreement including making all payments required when due, and (ii) providing all required Security on a timely basis as set forth in C.3. above.

b. Any return of Security will occur no more frequently than annually on or about each anniversary of the beginning date of the contract term as set forth in Exhibit A. The obligation of Northern to reduce the Security will be subject to the right of Northern to recoup and/or setoff all or any part of the Security against any obligations or claims whatsoever owing to Northern from CenterPoint, whether in connection with the Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement or the SMS Service Agreement or in connection with any unrelated transaction.

c. Subject to C.4.a. and C.4.b. above, Northern shall return that portion of the Security in excess of the amount required pursuant to C.1. above, determined as of the date of the annual return of Security.

5. **Miscellaneous**

a. If (i) due to default under this Precedent Agreement or the TFX Service Agreement or (ii) CenterPoint becomes obligated to pay Northern a Reimbursement pursuant to Paragraph 2.j.ii. of the TFX Service Agreement, and Northern is holding Security, then CenterPoint waives any and all claims to the balance of the Security held by Northern and agrees that such balance will be retained by Northern and applied toward any amounts due from CenterPoint.

b. Failure to remit in full all Security by the due dates will be a breach of this Precedent Agreement and may, at the discretion of Northern, result in the termination of Northern's obligations under the Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement, and/or the SMS Service Agreement. Upon any default under this Precedent Agreement, the TFX Service Agreement, the TBPL Service Agreement, and/or the SMS Service Agreement, Northern may pursue any remedy available at law or equity.

c. The Security will be owned and held by Northern for its sole and exclusive benefit until the earlier of (i) CenterPoint meeting the creditworthiness requirements of Section 46 of the GT&C, or (ii) CenterPoint satisfying in full all of its obligations under this Precedent Agreement and/or the TFX Service Agreement, the TBPL Service Agreement, and the SMS Service Agreement.

d. The Security will be owned and held by Northern, and CenterPoint's sole interest in the Security will be a residual interest, if any, remaining after all of CenterPoint's obligations under the TFX Service Agreement, the TBPL Service Agreement, and the SMS Service Agreement are satisfied in full. If Security is provided in the form of a letter of credit, CenterPoint will have no interest in the letter of credit or its proceeds.

AFFIDAVIT OF SERVICE

STATE OF MINNESOTA)

) ss.

COUNTY OF HENNEPIN)

Marie Doyle, being first duly sworn on oath, deposes and says she served via e filing or caused to be served electronically on behalf of CenterPoint Energy: its supplement to the Request for Change in Demand Units for the 2018-2019 heating season on the Minnesota Public Utilities Commission; on the Department of Commerce and; on the Office of the Attorney General - Residential Utilities Division; and on those on the attached service list requesting service electronically. A notification of its Request for Change in Demand Units report as described in Minn. Rules 7825.2910, Subp. 3 was served on persons on the enclosed service list requesting paper, by delivering by hand at the respective addresses on the list or by placing in the U.S. Mail at the City of Minneapolis.

_____/s/_____

Marie Doyle
Regulatory Analyst, Regulatory Services
CenterPoint Energy

Subscribed and sworn to before me
this 16th day of August, 2018

_____/s/ Mary Jo Schuh_____
Notary Public
Term expires: 01/31/2020

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