



414 Nicollet Mall
Minneapolis, MN 55401

July 10, 2020

—Via Electronic Filing—

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: PETITION
REQUEST FOR APPROVAL OF AGIS INITIATIVE RELATED TARIFF CHANGES
AND A VARIANCE TO COMMISSION RULES
DOCKET NO. E002/M-20-____

Dear Mr. Seuffert:

Northern States Power Company, doing business as Xcel Energy, submits the enclosed Petition requesting approval of changes to its tariffs and a variance from the Commission's Rules related to operational changes and opportunities associated with the Advanced Grid Intelligence and Security initiative we proposed in our November 2019 Integrated Distribution Plan.

We have electronically filed this document with the Minnesota Public Utilities Commission, and copies have been served on the parties on the attached service list. Please contact Amber Hedlund at amber.r.hedlund@xcelenergy.com or (612) 337-2268 or me at bria.e.shea@xcelenergy.com or (612) 330-6064 if you have any questions regarding this filing.

Sincerely,

/s/

BRIA SHEA
DIRECTOR, REGULATORY & STRATEGIC ANALYSIS

Enclosures
c: Service Lists

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

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

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
REQUESTING APPROVAL OF AGIS
INITIATIVE RELATED TARIFF CHANGES
AND A VARIANCE TO COMMISSION RULES

DOCKET NO. E002/M-20_____

PETITION

INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of changes to its tariffs and a variance from the Commission's Rules related to operational changes and opportunities associated with the Advanced Grid Intelligence and Security (AGIS) initiative we proposed in our November 2019 Integrated Distribution Plan (IDP) in Docket No. E002/M-19-666.

As discussed in the IDP, we must act to replace our current Automated Meter Reading (AMR) service to ensure we are able to continue to provide our customers with timely and accurate bills.¹ The advanced metering infrastructure (AMI) technology the Commission certified under Minn. Stat. § 216B.2425 in late May 2020 will not only replace our remote meter reading capabilities, it will enable additional customer and operational value.² Our implementation of AMI requires ancillary approvals associated with customer billing information and an option for customers to opt-out of receiving an AMI meter.

While we do not plan to begin installing meters in 2020, we are requesting these ancillary approvals well in advance in an effort to ensure we are able to meet our implementation timeline. The specific approvals we seek in this Petition are as follows:

¹ Our current AMR vendor is sun-setting the system we use in the mid-2020s.

² See Docket No. E002/M-19-666. May 29, 2020 hearing; Order pending.

- *Variance to Billing Content Rule Requirements.* With AMI, we will move our customer billing to be based on individual usage intervals rather than measuring the difference between the previous and current meter readings as we do today. Minn. R. 7820.3500 governs the content of customer bills and requires utilities to present customers with, among other things, their present and last preceding meter readings on each bill. Because these values will not be relevant to the calculation of customers' bills upon receiving an AMI meter, we seek a variance from this Rule to no longer print this information on customers' bills. This change also requires a change to the Standard Bill Forms contained in our Electric Rate Book.
- *Customer Opt-Out Option.* With AMI, we intend to offer customers the ability to opt-out of receiving an AMI meter that will communicate usage and other information over the Field Area Network (FAN). Customers will be able to make this decision either during the initial AMI deployment, or after the standard AMI meters are installed. Because these meters will not have the radio capabilities to communicate over the FAN, we will need to manually gather customer usage for billing purposes. We propose to add an optional Manual Meter Reading (MMR) tariff to our Electric Rate Book for customers who opt-out of AMI that outlines the framework, parameters, and associated customer costs, which we have developed based on the principle of cost-causation. With this Petition, we seek approval of our proposed terms, conditions and charge methodology – with the specific charges to be calculated and submitted to the Commission after the cost of the non-standard meter is known and closer in time to the start of our actual AMI implementation.

We believe these operational changes and opportunities are in the public interest and respectfully request the Commission to approve the following:

- An indefinite variance to Minn. R. 7820.3500 to allow the Company to no longer print the Present and Last Meter Reading values on bills provided to customers with AMI and non-communicating AMI meters,
- Our proposed additions to the Standard Bill Forms contained in our Electric Rate Book,
- The new MMR tariff we propose for residential and small business customers who prefer to have a non-communicating AMI meter installed at their homes or businesses, and
- A pricing review of the MMR tariff pricing approximately one year after the Company's broad AMI deployment is complete.

The balance of this petition provides support for the changes we propose, and is organized as follows:

Sections I through IV – *General filing information*

V. BILLING CONTENT EXCEPTION

- A. Background
- B. Change to Interval Billing
- C. Implementation
- D. Variance Request
- E. Proposed Tariff Sheets

VI. CUSTOMER OPT-OUT OPTION

- A. Optional Manual Meter Reading Service
- B. Implementation
- C. Industry Information
- D. Proposed Tariff Sheets

VII. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

CONCLUSION

Attachments:

- A Set of Redline Tariff Pages followed by a set of Clean as follows:
 - Table of Contents (Overall)
 - Customer Opt-Out Option
 - Table of Contents (Section 5)
 - Manual Meter Reading Service (AMI Opt-Out Option)
 - Standard Customer Bills
 - Table of Contents (Section 8)
 - Standard Customer Bill – Interval
 - Automatic Payment Plan (APP) Customer Bill – Interval
 - Reminder Notice Bill – Interval
- B Standard Customer Bill – Interval (*Highlighting the change to the Meter Reading Information section*)
- C Schedule – Manual Meter Reading Service Fixed Monthly Charge Methodology
- D Schedule – Manual Meter Reading Service Non-Standard Installation and Non-Standard Removal Charge Methodology

I. SUMMARY OF FILING

A one-paragraph summary is attached to this filing pursuant to Minn. R. 7829.1300, subp. 1.

II. SERVICE ON OTHER PARTIES

Pursuant to Minn. R. 7829.1300, subp. 2 and Minn. Stat. § 216.17, subd. 3, Xcel Energy has electronically filed this document. A summary of the filing has been served on all parties included on the attached service lists.

III. GENERAL FILING INFORMATION

Pursuant to Minn. R. 7829.1300, subp. 3, the Company provides the following information.

A. Name, Address, and Telephone Number of Utility

Northern States Power Company, doing business as:
Xcel Energy
414 Nicollet Mall
Minneapolis, MN 55401
(612) 330-5500

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

Matthew B. Harris
Lead Assistant General Counsel
Xcel Energy
414 Nicollet Mall – 401 8th Floor
Minneapolis, MN 55401
(612) 330-7641

C. Date of Filing

The date of this filing is July 10, 2020. The Company requests the changes be considered approved as of the date of the Commission's Order in this proceeding, however, effective 90 days prior to the start of the Company's broad AMI implementation.

D. Statute Controlling Schedule for Processing the Filing

This Petition is made pursuant to Minn. Stat. § 216B.05, which generally requires tariffs to be filed with the Commission, and Minn. Stat. § 216B.16, subd. 1, which prescribes general timelines for rate and tariff changes, including, but not limited to, a requirement of 60-days' notice prior to any rate or tariff change. Commission Rules define this filing as a "miscellaneous filing" under Minn. R. 7829.0100, subp. 11 since no determination of Xcel Energy's overall revenue requirement is necessary. Minn. R. 7829.1400, subp. 1 and 4 permit comments in response to a miscellaneous filing to be filed within 30 days and reply comments to be filed no later than 10 days thereafter.

E. Utility Employee Responsible for Filing

Bria E. Shea
Director, Regulatory & Strategic Analysis
Xcel Energy
414 Nicollet Mall – 401 7th Floor
Minneapolis, MN 55401
(612) 330-6064

IV. MISCELLANEOUS INFORMATION

Pursuant to Minn. R. 7829.0700, the Company requests that the following persons be placed on the Commission's official service list for this proceeding:

Matthew B. Harris
Principal Attorney
Xcel Energy
401 Nicollet Mall – 401 8th Floor
Minneapolis, MN 55401
Matt.b.harris@xcelenergy.com

Lynnette Sweet
Regulatory Administrator
Xcel Energy
401 Nicollet Mall – 401 7th Floor
Minneapolis, MN 55401
regulatory.records@xcelenergy.com

Any information requests in this proceeding should be submitted to Ms. Sweet at the Regulatory Records email address above.

V. BILLING CONTENT EXCEPTION

A. Background

Today, monthly customer bills are calculated using an "incremental" approach – calculating usage for each billing period by subtracting the previous meter reading from the current meter reading. This is a common legacy energy billing practice for

customers on kilowatt-hour (kWh) consumption only (non-demand) type rates, and relies on very basic meter functionality that registers usage in “increments” through use of analog dials or digital measurement of each kWh used. These readings occur approximately once each month and result in customers being billed for a number of kWh used over the course of that billing period. Consistent with this technology, Minn. R. 7820.3500 requires, among other things, that utilities present customers with both their present and last meter readings on their bills; this provides customers with information that can be used to understand the calculation of their bills.

As we transition our customers to AMI meters, and in anticipation of broad implementation of time-of-use and other advanced rates for customers enabled by AMI, we are programming our systems to base customer bills on usage “intervals” – generally 15 minutes – recorded by the AMI meters. This means that our bills to customers will rely on the sum of the usage intervals over the billing period, and will no longer be based the subtractive method currently used, where a meter reading registered at the end of a billing period is compared to one at the beginning.³ Because the register reads at the beginning and end of a period will no longer be the basis for or relevant to the bill calculation, we seek approval to no longer print the Present and Last Meter Reading on customers’ bills, once we install an AMI or non-standard/non-communicating AMI meter.

B. Change to Interval Billing

Register reads go back to the invention of the electricity meter in the late 1800s. The first meters accumulated consumption (kWh) in the same way a car odometer accumulates miles. The register is the meter’s memory and mechanically displays one value: cumulative consumption from the installation date of the meter. A register read is the number recorded at the date and time the value is gathered, and subtracting the prior read from the current read has been the basis for how most customers have been billed until the advent of specialized meters to support advanced rates for certain customers – or on a large scale, utility implementation of AMI.⁴ This measurement of consumption is then multiplied by the rate to determine the bill.

Advanced meters and/or load profile recorders typically used with large industrial and commercial customers were introduced mid-century and could record electricity

³ We will continue to use register reads in our internal systems as part of our billing validation process.

⁴ Shortly after the initial meters were invented, electricity meters that could measure and record maximum demand were invented. For these meters, there is a 2nd register to measure demand. The demand register begins at zero, then increases each time the electricity demand (kW) reaches a new peak. The register remains at the peak value until it is cleared and reset to zero upon being read, which signals the beginning of a new billing period.

consumption continuously for consecutive time periods commonly known as intervals – typically 5, 15, 30 or 60 minute intervals. These load profile capabilities allow utilities to offer time-of-use rates, and facilitate participation in demand response programs and interruptible and curtailable rates. They also facilitate demand billing, whereby peak demand over a given interval is determined and multiplied by the demand rate per kW to determine the demand charge for the period.

Today’s smart meters measure and store the consecutive interval information – and with communication capabilities afforded by systems such as the Company’s proposed FAN, transmit the information to the utilities’ systems to calculate bills using the interval data. We have been using these capabilities to bill our demand-based business customers and all business customers participating in our Electric Rate Savings demand management programs for many years.

With AMI, we are modifying our billing system to rely on interval information for all customer billing, in order to provide all customers with significantly more granular information about how they use electricity, and to ultimately facilitate advanced rate offerings.

We will modify the current Meter Reading Information box on customer bills to look as follows:

**Figure 1: Proposed Meter Reading Information Section –
Post-AMI/MMR Meter Installation**

METER READING INFORMATION		
METER 1234567	Read Dates: 04/05/20 – 05/04/20 (29 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	267 kWh

To the extent a customer is on a time-of-use rate, the Meter Reading Information box would look like the following:

**Figure 2: Illustrative Meter Reading Information Bill Section –
Time of Use Rate**

METER READING INFORMATION		
METER 1234567	Read Dates: 10/02/18 – 10/31/18 (29 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	989 kWh
On Pk Energy	Actual	198 kWh
Off Pk Energy	Actual	193 kWh
Mid Pk Energy	Actual	598 kWh

C. Implementation

In general, this change will occur on a phased basis, as AMI meters are installed across our Minnesota service area.⁵ We intend to communicate this change as part of our overall AMI implementation customer education and implementation plan. For this change specifically, customers will receive information explaining the change and illustrative examples of how their bills will look. With the first bill after receiving an AMI meter, we will also provide information that explains how to understand the Meter Reading Information section of the first bill. Customers will also receive information about where to access even greater information about their usage through the customer energy portal we have planned – and that will be available for customers upon receiving an AMI meter.

D. Variance Request

Through this Petition, we seek a variance to Minn. R. 7820.3500, which governs billing content as follows:

7820.3500 BILLING CONTENT.

Bills rendered periodically to customers for electric and gas service shall include, but are not limited to, the following information:

- A. **the present and last preceding meter readings;**
- B. the date of the present reading;
- C. identification of the applicable rate schedule;
- D. the number and kinds of units metered;
- E. a complete itemization of all charges incurred at each level of customer usage;
- F. the amount of the bill;
- G. the date on which the bill will become delinquent;
- H. any late fee, if applicable;
- I. if an estimated bill, clear and conspicuous language identifying the bill as an estimated bill;
- J. the amount of state and local taxes separately itemized;
- K. fuel or power adjustment clause separately itemized, if applicable; and
- L. the information required by part 7820.0200, item C. **[Emphasis added]**

As we have outlined, the present and last preceding meter readings will no longer be relevant to the calculation of AMI customers' bills. As such, we seek a variance from this Rule to allow the Company to no longer print the meters' previous and current meter register readings on customer bills, once a customer has an AMI meter.

⁵ Or in the case of customers that have opted-out of receiving an AMI meter, once they have an Interval Data Meter.

Minn. R. 7829.3200 provides criteria for a variance from the Commission's Rules and states:

Subp. 1. The commission shall grant a variance to its rules when it determines that the following requirements are met:

- A. enforcement of the rule would impose an excessive burden upon the applicant or others affected by the rule;
- B. granting the variance would not adversely affect the public interest; and
- C. granting the variance would not conflict with standards imposed by law.

As further discussed below, we believe that the facts presented here meet the criteria for a Rule variance.

1. *Enforcement of the Rule Would Impose an Excessive Burden*

As we have described, when the Company switches customers to AMI meters, the register reads will no longer be used in the calculation of customer bills. Consequently, printing them on customer bills solely to satisfy the Billing Content Rule likely would create customer confusion and possibly lead to greater numbers of customer questions, higher levels of customer complaints, and lower customer satisfaction. Additionally, changing the billing basis to intervals will provide the necessary flexibility and capabilities necessary to design, offer, and implement advanced rate designs in a cost-effective and expeditious manner. If our customer billing were to remain based on register reads, any time we implemented new time-of-use or other advanced rates or changed existing advanced rates, we would need to reprogram each individual meter for customers electing, or already on, those rates.

2. *Granting the Variance Does Not Adversely Affect the Public Interest*

The public interest is not adversely affected by granting a variance that would allow the Company to no longer print information on customer bills that is not relevant to the calculation of their bill. Further, with the change to AMI meters and our use of interval usage data for billing, customers will have access to much more granular usage information from which to understand and manage their usage, which is in the public interest. Additionally, the change to use of interval data for customer billing unlocks substantially expanded opportunities to develop, offer, and cost-effectively implement advanced rates, which is also in the public interest.

3. *Variance Does Not Conflict with Standards Imposed by Law*

We are not aware of any conflict with any standards imposed by law. The Commission's rules permit variances under circumstances such as those presented here.

The Commission has, in the past, approved utilities' requests to vary Rules related to billing, including when such variances are driven by new metering technology⁶ and would help avoid customer confusion.⁷ Granting the Company's requested variance here is similarly appropriate for the reasons outlined above. In summary, approving our request for an indefinite variance from Minn. R. 7826.3500 Billing Content is in the public interest.

E. Proposed Tariff Sheets

We provide new AMI standard bill form Tariff Sheets resulting from this future change included in Attachment A to this filing. These new standard bill forms are in addition to the current standard bill form Tariff Sheets, which will remain relevant until our full transition to AMI is complete. At the point when we are no longer billing any customers from register reads, we will submit a compliance filing that cancels these tariffs and deletes them from our Rate Book.

In addition to providing redline and clean versions of our proposed AMI Standard Bill Form Tariff Sheets, we provide a PDF of the Standard Bill Form - Interval highlighting the change to the Meter Reading Information section as Attachment B.

⁶ See *In the Matter of Xcel Energy's Petition for Approval of a Residential Electric-Vehicle Service Pilot Program*, Docket No. E-002/M-17-817, Order Approving Pilot Program, Granting Variance, and Requiring Annual Reports (May 9, 2018).

⁷ See *In the Matter of the Petition of Northern States Power Company for Approval of Tariff Modifications and a Variance from Commission Rules to Implement Customer-Driven Operational Changes and Other Tariff Changes*, Docket No. E-002/M-17-553, Order Approving Tariff Modifications and Granting Variance (Nov. 2, 2017); *In the Matter of the Petition of CenterPoint Energy Minnesota Gas for Approval of a Variance from Minnesota Rule 7820.5300 DETERMINATION OF DELINQUENCY Related to Its Automatic Bank Draft Plan for Customer-Selected Due Dates*, Docket No. G-008/M-15-397, Order (June 22, 2015); *In the Matter of Otter Tail Power Company's 2013 Demand-Side Management Financial Incentives and Annual Filing to Update the CIP Rider*, Docket No. E-017/M-14-201, Order Approving Financial Incentive, Setting Conservation Cost Recovery Adjustment, Reducing Carrying Charges, and Varying Rules (Sept. 26, 2014).

Minnesota Electric Rate Book – MPUC No. 2

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Section No. 1, Sheet No. 4, Revision 18
Section No. 1, Sheet No. 5, Revision 12
Section No. 8-TOC, Revision 3

Interval Standard Bill Form	Interval Automatic Payment Plan Customer Bill	Interval Reminder Notice Bill
Section No. 8, Original Sheet No. 2.3	Section No. 8, Original Sheet No. 3.3	Section No. 8, Original Sheet No. 4.3
Section No. 8, Original Sheet No. 2.4	Section No. 8, Original Sheet No. 3.4	Section No. 8, Original Sheet No. 4.4
Section No. 8, Original Sheet No. 2.5	Section No. 8, Original Sheet No. 3.5	Section No. 8, Original Sheet No. 4.5

VI. CUSTOMER OPT-OUT OPTION

The second change we propose is to provide customers the option to opt out of having an advanced meter with an embedded communications module.

A. Optional Manual Meter Reading Service

Typically, the reason some portion of other utilities' customers have chosen not to receive an AMI meter is because they distrust its communication capabilities, despite the benefits of these capabilities to the customer and overall distribution system. Based on our experience in Colorado and the experience of other utilities that have deployed AMI meters, we expect the percentage of customers opting out to be less than one percent. In order to provide these customers with access to granular usage data, the opportunity to participate in time-of-use and other advanced rates, and therefore greater control over their energy usage, it will be necessary to install a meter that, like the AMI meters, is capable of tracking customer usage in data intervals.

Therefore, we propose to provide these customers with an advanced meter that has the same customer usage-related capabilities as our planned AMI meters, but that will not contain a communications module that transmits usage and other information through the FAN to the Company's systems. Rather, a Company representative will have to manually read the meter every month. In this section, we discuss the framework we propose for this optional service and a proposed set of cost-causation based charges for customers that choose manual meter reading service.

1. *Manual Meter Reading Service Availability*

This optional service will be available to customers taking service under the Company's Residential Service, Residential Time of Day, Small General Service rates,

and Small General Time of Day Service.⁸ It will be available during broad AMI deployment and will also be an available option after AMI meters are installed. If customers choose the optional manual meter reading service after an AMI meter is already installed, those customers will incur a charge for the special trip associated with a technician replacing the AMI meter with a non-standard manual-read meter. In all cases, MMR customers will incur a monthly meter reading charge associated with the Company needing to dispatch a meter reader to manually gather the customers' usage information for billing purposes. Finally, because this is an optional service, customers choosing this service would incur a Non-Standard Meter Removal Charge upon choosing to return to standard AMI service or on their final bills (upon moving out, for example) for a Company technician to replace the manual read meter with a standard AMI meter for the next tenant or owner.

In addition to taking service under the Company's Residential Service, Residential Time of Day, Small General Service rates, and Small General Time of Day Service rates, the following terms and conditions will apply to MMR customers:

1. Customers who elect to receive this service will be subject to the Non-Standard Meter Installation Charge.
2. A one-time waiver of the Interval Meter Installation and Removal Charge will apply to customers who elect this rider prior to the installation of a standard advanced meter at their premise(s) as part of the Company's implementation of Advanced Metering Infrastructure.
3. Customers who cancel this service or vacate the premise where the service was requested will be subject to the Non-Standard Meter Removal Charge.
4. The monthly Fixed Charge contributes to the recovery of incremental expenses associated with the Company collecting usage information through manual means.
5. This rider will separately apply to each individual non-standard meter the customer requests be read manually.
6. The Company reserves the right to refuse availability of this rider if the:
 - a. Manual metering reading service would create a safety hazard for the customer, the public, or Company's personnel or facilities,
 - b. Customer does not allow the Company's employees or agents access to the non-standard meter(s) at the customer's premise(s), or
 - c. Customer has a history of meter tampering.
7. Entities such as multi-unit dwelling associations are not authorized to elect this rider on behalf of individually metered customers.

⁸ Larger commercial customers will not be eligible to opt out. We have learned that, for the most part, such customers want and benefit from the timely interval data provided by AMI and do not request to opt out. Additionally, the cost to maintain an inventory of non-AMI meters suitable for the small customer base of larger commercial customers would be cost-prohibitive.

8. Customers electing manual meter reading with this rider may receive bills based on estimated meter readings in any month where circumstances prevent a meter reading.

2. *MMR Cost Components*

In this section, we outline the basis for the monthly meter reading and the one-time Non-Standard Installation and Removal Charge components and how they would apply in various customer circumstances. In general, our proposed structure for the charges associated with this optional service are cost-causation based and allow for the potential difference in cost between an AMI and a non-standard advanced meter.

We note that we are still in the process of selecting the non-standard advanced meter we will use with this service and as such, we do not yet know the specific cost differential, if any, of it compared to the standard AMI meter. We expect the non-standard/non-communicating meters to be priced lower than the AMI meters on an individual basis due to having more limited functionality. However, because we will be purchasing significantly fewer of these meters compared to the AMI meters, we expect that, after volume pricing discounts, the final pricing for them will be very similar to the AMI meters.

That said, while we provide illustrative pricing with this Petition, we clarify that we are requesting approval of the charge *methodology*, not the specific charges. Once the cost of the non-standard advanced meter is known, we will submit a compliance filing detailing the fixed monthly manual meter reading charge, using the methodology the Commission approves. We also propose that we initiate a formal review of the pricing for this optional service approximately one year after AMI is fully deployed. At that time, we will be able to ascertain whether the manual meter reading rate aligns with our 0.5 percent take-rate expectations and thus whether the charges are appropriately representative of the incremental costs associated with this optional service.

a. Monthly Manual Meter Read Charge

We propose four components of the Manual Meter Reading Fixed Charge: (1) labor expense associated with manual meter reading personnel, (2) non-labor expense including fleet vehicle expense, personal mileage reimbursement, safety equipment and other materials required, (3) the potential for a cost differential between the non-standard manual meter and the standard AMI meter, and (4) a credit for meter reading costs already included in base rates, which we note will expire when the underlying cost is no longer included in base rates. Because we do not yet know whether there

will be a difference in the cost of the non-standard manual meter compared to a standard AMI meter and assume any differential would be small, we have assumed no differential for illustrative purposes. Based on these elements, our current calculation of the Fixed Charge is \$17.81. However, this cost is an estimate based on the current cost to manually read meters and an assumed volume of manual readings. Since the actual cost will be in part dependent on the volume of meters that choose to opt of the standard meter we propose to round this down to \$15.00 per month. Once customers have opted out of the standard meter and the Company has had a full-year of experience of manually reading these customers meters we will be able to measure the actual cost of the meter reading and can update the Fixed Charge.

The labor and non-labor portions of this Fixed Charge component are based on an average of our historical manual meter reading costs and the assumption that 0.5 percent of customers will choose this service. Basing this charge on our historical manual meter reading costs is an appropriate and reasonable point of reference because the manual meter reads we will perform for this optional service will use the same Company personnel and equipment as are required today when it is necessary to collect a manual meter reading from Minnesota customer premises. We provide a schedule outlining our proposed methodology and the illustrative charge amount as Attachment D.

b. Non-Standard Meter Installation and Removal Charge

The Non-Standard Meter Installation and Non-Standard Meter Removal trip charge components of this Tariff consist primarily of direct metering technician personnel labor cost and are consistent with the accounting method we use to assign meter costs as meters are installed. We refer to this methodology as “first set credits,” which we discuss in the budget section of our IDP. In summary, when we receive meters, we capitalize the cost of the equipment and the estimated labor to install it at the time of receipt (instead of when they are assigned to a specific job). As the meters are later installed, the cost of an individual meter and its installation labor and associated ancillary costs are credited (called First Set Credit) against the initial purchase/receipt.⁹ The charge resulting from this methodology is \$42.16. Again, because this cost is an estimate, we propose to round this charge down to \$40.00 per instance. We provide a schedule outlining this charge component as Attachment D.

We discuss below how these charges will apply in various customer circumstances.

⁹ Other ancillary costs include labor loads, truck expense, mobile data expense, warehouse expense, and supervisor labor costs.

c. Summary

All customers electing this service will incur the Fixed Charge every month and a Non-Standard Removal Charge when they terminate the optional service and/or move from the premises where they enrolled. This charge represents the cost the Company will incur to remove the non-standard meter and replace it with a standard AMI meter.

Customers that elect this optional service *prior to* installation of an AMI meter as part of the Company's broad AMI deployment will not have to pay for installation of the non-standard meter, as it will be done as part of the AMI implementation – avoiding a special trip by a meter technician. Customers electing this service *after* an AMI meter is already installed will incur a Non-Standard Installation Charge for the Company remove the AMI meter and replace it with a non-standard meter.

We summarize in Table 1 below the inputs and assumptions we believe are relevant to establishing these charges, along with illustrative charge amounts resulting from our proposed cost basis at this point in time. If the methodology is approved by the Commission, we propose the actual charges be established closer in time to the start of our actual AMI implementation.

Table 1: Summary of Charge Component Basis and Illustrative Monthly Charges

Circumstance	Charge Component and Basis	Illustrative Charges by Component
Customer Opts out <i>prior to</i> receiving AMI meter	<p><i>Fixed Charge (Monthly Manual Meter Read Charge)</i> – Based on average of actual historical manual meter reading costs, +/- meter cost differential, less meter read costs already in base rates, assumption of 0.5 percent participation. Proposed calculation methodology currently derives a charge amount of \$17.81 per month.</p> <p><i>Interval Meter Removal Charge</i> – Based on first set credit, which includes labor and associated ancillary costs. Proposed calculation methodology currently derives a charge amount of \$42.16.</p>	<p>\$15.00 per month</p> <p>– plus –</p> <p><i>On final bill reliant on manual meter reading:</i> Non-Standard Meter Removal Charge (\$40.00)</p>
Customer Opts out <i>after</i> receiving AMI meter	<p><i>Fixed Charge (Monthly Manual Meter Read Charge)</i> – see above</p> <p><i>Non-Standard Meter Installation Charge</i> – see above</p> <p><i>Non-Standard Meter Removal Charge</i> – see above</p>	<p>\$15.00 per month</p> <p>– plus –</p> <p>Non-Standard Meter Installation Charge (\$40.00)</p> <p><i>On final bill reliant on manual meter reading:</i> Non-Standard Meter Removal Charge (\$40.00)</p>

As we have noted, these charges are illustrative based on the Charge Component Basis we have proposed and our current known costs, rounded down for sake of simplicity. We propose that the final charges be calculated closer in time to the Company's actual AMI implementation, using the Company's then-costs and the methodology prescribed in the approved tariff.

B. Implementation

Our implementation of this optional service will begin with customer education as part of our broad AMI implementation. Generally, our AMI deployment will be done based on geography, focusing on customer locations rather than customer classes. When deploying meters, we will provide customers with increasingly detailed communications in a 90-60-30 days before AMI meter installation cadence. Among other things, these pre-AMI deployment communications will contain instructions for customers about where to find more information about the AMI meters, as well as how to opt-out of receiving one.

Once AMI meters are broadly installed, customers will still have the option to opt out of having an AMI meter and will follow a similar process to elect the proposed manual meter reading service. On an ongoing basis, customers will be able to access information about AMI meters on our website, or from one of our customer service representatives. Customers electing manual meter reading service will complete a service order request, just like the pre-AMI customers will do. However, customers that already have an AMI meter installed and want it replaced with a non-standard meter will be charged an Installation Charge for the Company to perform the meter exchange, in addition to the monthly meter reading Fixed Charge, as we discussed in Part A above.

C. Industry Information

We reviewed opt-out costs across the country and determined that manual meter reading costs average \$30.61 per month per premise, and meter exchange (installation/removal) costs average \$131.00 per customer. The amounts we propose for our Minnesota customers are representative of the incremental costs we expect to incur and are significantly lower than these national averages, demonstrating that the Company's proposed costs for manual meter reading and exchange costs are reasonable.

D. Proposed Tariff Sheets

We provide the tariff sheets containing the proposed framework and terms and conditions of our proposed Manual Meter Reading Rider (AMI Meter Opt-Out) service in both clean and redline format included in Attachment A.

Minnesota Electric Rate Book – MPUC No. 2

Section No. 1, Sheet No. 3, Revision 18

Section No. 5, Sheet No. TOC-2, Revision 18

Section No. 5, Original Sheet No. 148

VII. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

There is no change to Xcel Energy revenue as a result of the proposals we make in this Petition. This filing proposes changes to our tariffs and a variance from the Commission's Rules in order to implement interval billing for customers and facilitate customer choice with regard to having an AMI meter installed. The customer charges associated with the optional AMI opt-out Manual Meter Reading service are cost-causative and designed to be revenue-neutral to the Company.

CONCLUSION

Xcel Energy believes these changes are in the public interest, and respectfully requests the Commission to approve the following:

- An indefinite to Minn. R. 7820.3500 to allow the Company to no longer print the Present and Last Meter Reading values on bills provided to customers with AMI and manual read meters,
- Our proposed additions of Interval-based Standard Bill Forms contained in our Electric Rate Book,
- The new Manual Meter Reading tariff and charge methodologies we propose for residential and small business customers who prefer to have a non-communicating advanced meter installed at their homes or businesses, and
- A compliance review of the Manual Meter Reading tariff pricing approximately one year after the Company's broad AMI deployment is complete.

Dated: July 10, 2020

Northern States Power Company

STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION

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

IN THE MATTER OF THE PETITION OF
NORTHERN STATES POWER COMPANY
REQUESTING APPROVAL OF AGIS
INITIATIVE RELATED TARIFF CHANGES
AND A VARIANCE TO COMMISSION RULES

DOCKET NO. E002/M-20-____

PETITION

SUMMARY OF FILING

Please take notice that on July 10, 2020, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition for approval of changes to its tariffs and a variance from the Commission's Rules related to operational changes and opportunities associated with the Advanced Grid Intelligence and Security initiative we proposed in our November 2019 Integrated Distribution Plan in Docket No. E002/M-19-666.

Redline

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~~17th~~18th Revised Sheet No. 3

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(Continued on Sheet No. 1-4)

Date Filed:	05-19-16 <u>07-10-20</u>	By: Christopher B. Clark	Effective Date:	06-01-18
		President, Northern States Power Company, a Minnesota corporation		
Docket No.	E002/M- 13-315 & E999/CI-15-115 <u>20-</u>		Order Date:	04-20-18

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~~47th~~^{18th} Revised Sheet No. 4

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~~11th~~12th Revised Sheet No. 5

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Docket No. E002/M-~~48-71420-~~

Order Date: ~~05-09-19~~

MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

RATE SCHEDULES

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~~47th~~18th Revised Sheet No. TOC-2

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Voluntary Renewable*Connect Government Rider	5-154

N

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By: Christopher B. Clark

Effective Date: ~~08-07-18~~

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/M-~~17-775~~20-

Order Date: ~~08-07-18~~

**MANUAL METERING READING SERVICE RIDER
(AMI OPT-OUT OPTION)**

Section No. 5
Original Sheet No. 148

AVAILABILITY

Available as an option to Residential Service, Residential Time of Day, Small General Service and Small General Time of Day Service customers who elect on-site meter reading service to opt out of energy usage measurements by standard advanced meters with two-way communication capabilities.

RATE

Fixed Charge per Month \$15.00

Non-Standard Meter Installation Charge \$40.00

Non-Standard Meter Removal Charge \$40.00

TERMS AND CONDITIONS OF SERVICE

1. Customers who elect to receive this service will be subject to the Non-Standard Meter Installation Charge upon request for this service.
2. A one-time waiver of the Non-Standard Meter Installation Charge will apply to customers who elect this service prior to the installation of a standard advanced meter at their premise(s) as part of the Company's implementation of Advanced Metering Infrastructure.
3. Customers who cancel this service or vacate the premise where the service was requested will be subject to the Non-Standard Meter Removal Charge.
4. This rider will separately apply to each individual non-standard meter the customer requests be read manually.
5. The Company reserves the right to refuse availability of this rider if the:
 - a. Manual meter reading service would create a safety hazard for the customer, the public, or Company's personnel or facilities,
 - b. Customer does not allow the Company's employees or agents access to the non-standard meter(s) at the customer's premise(s), or
 - c. Customer has a history of meter tampering.
6. Entities such as multi-unit dwelling associations are not authorized to elect this rider on behalf of individually metered customers.
7. Customers electing manual meter reading with this rider may receive bills based on estimated meter readings in any month where circumstances prevent a meter reading.

(Continued on Sheet No. 5-1.1)

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Docket No. E002/M-20-

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CUSTOMER BILLS
TABLE OF CONTENTS

Section No. 8
~~2nd~~3rd Revised Sheet No. TOC

The Company's standard customer billing forms and notices relating to special conditions are described below.
Copies of the forms are shown on the following sheets in the order listed.

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4. Disconnection Notice Bill	8-6	<u>N</u>
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**STANDARD CUSTOMER BILL – INTERVAL
(CONTINUED)**

Section No. 8
Original Sheet No. 2.4



SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000	Read Dates: MM/DD/YY- MM/DD/YY (00 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Reg Fac Surchg				\$00.00
Res Savers Switch AC				- \$00.00 CR
Windsource Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	- \$0.000000	- \$00.00 CR
Low Income Cr Fuel	000	kWh	- \$0.000000	- \$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-2.5)

Date Filed: 07-10-20

By: Christopher B. Clark

Effective Date:

President, Northern States Power Company, a Minnesota Corporation

Docket No. E002/M-20-

Order Date:

**STANDARD CUSTOMER BILL – INTERVAL
(CONTINUED)**

Section No. 8
Original Sheet No. 2.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, ___% of your bill refers to power plant costs, ___% to high voltage line costs and ___% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

Date Filed: 07-10-20

By: Christopher B. Clark
President, Northern States Power Company, a Minnesota Corporation

Effective Date:

Docket No. E002/M-20-

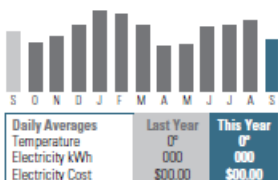
Order Date:

**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL**

Section No. 8
Original Sheet No. 3.3



YOUR MONTHLY ELECTRICITY USAGE



QUESTIONS ABOUT YOUR BILL?

See our website: xcelenergy.com
Email us at: Customerservice@xcelenergy.com
Call Mon - Fri 7 a.m. - 7 p.m. or Sat 9 a.m. - 5 p.m.
Please Call: 1-800-895-4999
Hearing Impaired: 1-800-895-4949
Español: 1-800-687-8778
Or write us at: XCEL ENERGY
PO BOX 8
EAU CLAIRE WI 54702-0008



NORTHERN STATES POWER COMPANY

SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

SUMMARY OF CURRENT CHARGES (detailed charges begin on page 2)

Electricity Service	MM/DD - MM/DD 000 kWh	\$00.00
Current Charges		\$00.00

ACCOUNT BALANCE (Balance de su cuenta)

Previous Balance	As of MM/DD	\$00.00
Payment Received	Auto Pay MM/DD	- \$00.00 CR
Balance Forward		\$00.00
Current Charges		\$00.00
Amount Due (Cantidad a pagar)		\$00.00

INFORMATION ABOUT YOUR BILL

Thank you for your payment.



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-1234567890-1	MM/DD/YYYY	\$00.00	Automated Bank Payment

Your bill is paid through an
automated bank payment plan.

NOVEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

90 FP 1 B 1 1 A 10061 10061 **5 DGT
[Barcode]
JOHN E. CUSTOMER, MARTHA W. CUSTOMER
ADDRESS LINE 2
ADDRESS LINE 3
ADDRESS LINE 4
1234 ANY STREET
ANY CITY, MN 00000-0000

[Barcode]
XCEL ENERGY
P.O. BOX 9477
MPLS, MN 55484-9477

003077310 00977701910003077310324

(Continued on Sheet No. 8-3.4)

Date Filed: 07-10-20 By: Christopher B. Clark Effective Date:
President, Northern States Power Company, a Minnesota Corporation
Docket No. E002/M-20- Order Date:

**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL (CONTINUED)**

Section No. 8
Original Sheet No. 3.4



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000		
Read Dates: MM/DD/YY- MM/DD/YY (00 Days)		
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Req Fac Surchg				\$00.00
Res Savers Switch AC				- \$00.00 CR
Windsor Source Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	- \$0.000000	- \$00.00 CR
Low Income Cr Fuel	000	kWh	- \$0.000000	- \$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-3.5)

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By: Christopher B. Clark
President, Northern States Power Company, a Minnesota Corporation

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**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL (CONTINUED)**

Section No. 8
Original Sheet No. 3.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, __% of your bill refers to power plant costs, __% to high voltage line costs and __% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

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President, Northern States Power Company, a Minnesota Corporation

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Docket No. E002/M-20-

Order Date:

REMINDER NOTICE BILL – INTERVAL (CONTINUED)

Section No. 8
Original Sheet No. 4.4



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000	Read Dates: MM/DD/YY- MM/DD/YY (00 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Reg Fac Surchg				\$00.00
Res Savers Switch AC				-\$00.00 CR
WindsorSource Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	-\$0.000000	-\$00.00 CR
Low Income Cr Fuel	000	kWh	-\$0.000000	-\$00.00 CR
Environmnt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-4.5)

Date Filed: 07-10-20 By: Christopher B. Clark Effective Date:
President, Northern States Power Company, a Minnesota Corporation
Docket No. E002/M-20- Order Date:

REMINDER NOTICE BILL – INTERVAL (CONTINUED)

Section No. 8
Original Sheet No. 4.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

NON-RECURRING CHARGES / CREDITS DETAILS

DESCRIPTION	CHARGE
Late Charge Assessed	\$00.00
Total	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, __% of your bill refers to power plant costs, __% to high voltage line costs and __% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

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By: Christopher B. Clark
President, Northern States Power Company, a Minnesota Corporation

Effective Date:

Docket No. E002/M-20-

Order Date:

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

RATE SCHEDULES
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**MANUAL METERING READING SERVICE RIDER
(AMI OPT-OUT OPTION)**

Section No. 5
Original Sheet No. 148

AVAILABILITY

Available as an option to Residential Service, Residential Time of Day, Small General Service and Small General Time of Day Service customers who elect on-site meter reading service to opt out of energy usage measurements by standard advanced meters with two-way communication capabilities.

RATE

Fixed Charge per Month	\$15.00
Non-Standard Meter Installation Charge	\$40.00
Non-Standard Meter Removal Charge	\$40.00

TERMS AND CONDITIONS OF SERVICE

1. Customers who elect to receive this service will be subject to the Non-Standard Meter Installation Charge upon request for this service.
2. A one-time waiver of the Non-Standard Meter Installation Charge will apply to customers who elect this service prior to the installation of a standard advanced meter at their premise(s) as part of the Company's implementation of Advanced Metering Infrastructure.
3. Customers who cancel this service or vacate the premise where the service was requested will be subject to the Non-Standard Meter Removal Charge.
4. This rider will separately apply to each individual non-standard meter the customer requests be read manually.
5. The Company reserves the right to refuse availability of this rider if the:
 - a. Manual meter reading service would create a safety hazard for the customer, the public, or Company's personnel or facilities,
 - b. Customer does not allow the Company's employees or agents access to the non-standard meter(s) at the customer's premise(s), or
 - c. Customer has a history of meter tampering.
6. Entities such as multi-unit dwelling associations are not authorized to elect this rider on behalf of individually metered customers.
7. Customers electing manual meter reading with this rider may receive bills based on estimated meter readings in any month where circumstances prevent a meter reading.

(Continued on Sheet No. 5-1.1)

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CUSTOMER BILLS
TABLE OF CONTENTS

Section No. 8
3rd Revised Sheet No. TOC

The Company's standard customer billing forms and notices relating to special conditions are described below.
Copies of the forms are shown on the following sheets in the order listed.

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Reminder Notice Bill - Interval	8-4.3	N
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Date Filed: 07-10-20

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President, Northern States Power Company, a Minnesota corporation

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STANDARD CUSTOMER BILL – INTERVAL

Section No. 8
Original Sheet No. 2.3



NORTHERN STATES POWER COMPANY

SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

YOUR MONTHLY ELECTRICITY USAGE



Daily Averages	Last Year	This Year
Temperature	0°	0°
Electricity kWh	000	000
Electricity Cost	\$00.00	\$00.00

QUESTIONS ABOUT YOUR BILL?

See our website: xcelenergy.com
Email us at: Customerservice@xcelenergy.com

Call Mon - Fri 7 a.m.-7 p.m. or Sat 9 a.m.-5 p.m.
Please Call: 1-800-895-4999
Hearing Impaired: 1-800-895-4949
Español: 1-800-687-8778

Or write us at: XCEL ENERGY
PO BOX 8
EAU CLAIRE WI 54702-0008



SUMMARY OF CURRENT CHARGES (detailed charges begin on page 2)

Electricity Service	MM/DD - MM/DD 000 kWh	\$00.00
Current Charges		\$00.00

ACCOUNT BALANCE (Balance de su cuenta)

Previous Balance	As of MM/DD	\$00.00
Payment Received	Check MM/DD	- \$00.00 CR
Balance Forward		\$00.00
Current Charges		\$00.00
Amount Due (Cantidad a pagar)		\$00.00

INFORMATION ABOUT YOUR BILL

Thank you for your payment.



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-1234567890-1	MM/DD/YYYY	\$0.00	

Please see the back of this bill for more information regarding the late payment charge. Pay on or before the date due to avoid assessment of a late payment charge.
Make your check payable to XCEL ENERGY.

NOVEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

90 FP 1 B 1 1 A 10061 10061 **5 DGT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

JOHN E. CUSTOMER, MARTHA W. CUSTOMER
ADDRESS LINE 2
ADDRESS LINE 3
ADDRESS LINE 4
1234 ANY STREET
ANY CITY, MN 00000-0000

XCEL ENERGY
P.O. BOX 9477
MPLS, MN 55484-9477

003077310 00977701910003077310324

(Continued on Sheet No. 8-2.4)

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**STANDARD CUSTOMER BILL – INTERVAL
(CONTINUED)**

Section No. 8
Original Sheet No. 2.4



SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000	Read Dates: MM/DD/YY- MM/DD/YY (00 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Reg Fac Surchg				\$00.00
Res Savers Switch AC				- \$00.00 CR
Windsource Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	- \$0.000000	- \$00.00 CR
Low Income Cr Fuel	000	kWh	- \$0.000000	- \$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-2.5)

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**STANDARD CUSTOMER BILL – INTERVAL
(CONTINUED)**

Section No. 8
Original Sheet No. 2.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, ___% of your bill refers to power plant costs, ___% to high voltage line costs and ___% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

Date Filed: 07-10-20

By: Christopher B. Clark
President, Northern States Power Company, a Minnesota Corporation

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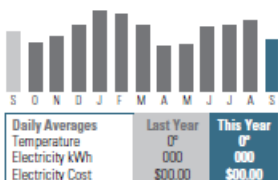
Order Date:

**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL**

Section No. 8
Original Sheet No. 3.3



YOUR MONTHLY ELECTRICITY USAGE



QUESTIONS ABOUT YOUR BILL?

See our website: xcelenergy.com
Email us at: Customerservice@xcelenergy.com
Call Mon - Fri 7 a.m. - 7 p.m. or Sat 9 a.m. - 5 p.m.
Please Call: 1-800-895-4999
Hearing Impaired: 1-800-895-4949
Español: 1-800-687-8778
Or write us at: XCEL ENERGY
PO BOX 8
EAU CLAIRE WI 54702-0008



NORTHERN STATES POWER COMPANY

SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

SUMMARY OF CURRENT CHARGES (detailed charges begin on page 2)

Electricity Service	MM/DD - MM/DD 000 kWh	\$00.00
Current Charges		\$00.00

ACCOUNT BALANCE (Balance de su cuenta)

Previous Balance	As of MM/DD	\$00.00
Payment Received	Auto Pay MM/DD	- \$00.00 CR
Balance Forward		\$00.00
Current Charges		\$00.00
Amount Due (Cantidad a pagar)		\$00.00

INFORMATION ABOUT YOUR BILL

Thank you for your payment.



ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-1234567890-1	MM/DD/YYYY	\$00.00	Automated Bank Payment

Your bill is paid through an
automated bank payment plan.

NOVEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

90 FP 1 B 1 1 A 10061 10061 **5 DGT
[Barcode]
JOHN E. CUSTOMER, MARTHA W. CUSTOMER
ADDRESS LINE 2
ADDRESS LINE 3
ADDRESS LINE 4
1234 ANY STREET
ANY CITY, MN 00000-0000

[Barcode]
XCEL ENERGY
P.O. BOX 9477
MPLS, MN 55484-9477

003077310 00977701910003077310324

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**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL (CONTINUED)**

Section No. 8
Original Sheet No. 3.4



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000		
Read Dates: MM/DD/YY- MM/DD/YY (00 Days)		
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Req Fac Surchg				\$00.00
Res Savers Switch AC				- \$00.00 CR
WindsorSource Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	- \$0.000000	- \$00.00 CR
Low Income Cr Fuel	000	kWh	- \$0.000000	- \$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-3.5)

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**AUTOMATIC PAYMENT PLAN CUSTOMER BILL –
INTERVAL (CONTINUED)**

Section No. 8
Original Sheet No. 3.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, __% of your bill refers to power plant costs, __% to high voltage line costs and __% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

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Order Date:

REMINDER NOTICE BILL – INTERVAL (CONTINUED)

Section No. 8
Original Sheet No. 4.4



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

METER READING INFORMATION		
METER 0000000000	Read Dates: MM/DD/YY- MM/DD/YY (00 Days)	
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Reg Fac Surchg				\$00.00
Res Savers Switch AC				-\$00.00 CR
Windsorcare Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	-\$0.000000	-\$00.00 CR
Low Income Cr Fuel	000	kWh	-\$0.000000	-\$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

(Continued on Sheet No. 8-4.5)

REMINDER NOTICE BILL – INTERVAL (CONTINUED)

Section No. 8
Original Sheet No. 4.5



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

NON-RECURRING CHARGES / CREDITS DETAILS

DESCRIPTION	CHARGE
Late Charge Assessed	\$00.00
Total	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, __% of your bill refers to power plant costs, __% to high voltage line costs and __% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

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By: Christopher B. Clark
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Order Date:

NORTHERN STATES POWER COMPANY



SERVICE ADDRESS	ACCOUNT NUMBER	DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1	MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE
	0123456789	MM/DD/YYYY
		AMOUNT DUE
		\$00.00

YOUR MONTHLY ELECTRICITY USAGE



Daily Averages	Last Year	This Year
Temperature	0°	0°
Electricity kWh	000	000
Electricity Cost	\$00.00	\$00.00

QUESTIONS ABOUT YOUR BILL?

See our website: xcelenergy.com
 Email us at: Customerservice@xcelenergy.com
 Call Mon - Fri 7 a.m.-7 p.m. or Sat 9 a.m.-5 p.m.
 Please Call: 1-800-895-4999
 Hearing Impaired: 1-800-895-4949
 Español: 1-800-687-8778
 Or write us at: XCEL ENERGY
 PO BOX 8
 EAU CLAIRE WI 54702-0008



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SUMMARY OF CURRENT CHARGES (detailed charges begin on page 2)

Electricity Service	MM/DD - MM/DD	000 kWh	\$00.00
Current Charges			\$00.00

ACCOUNT BALANCE (Balance de su cuenta)

Previous Balance	As of MM/DD	\$00.00
Payment Received	Check MM/DD	- \$00.00
Balance Forward		\$00.00
Current Charges		\$00.00
Amount Due		\$00.00

INFORMATION ABOUT YOUR BILL

Thank you for your payment.



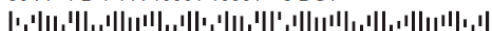
ACCOUNT NUMBER	DUE DATE	AMOUNT DUE	AMOUNT ENCLOSED
51-1234567890-1	MM/DD/YYYY	\$0.00	

Please see the back of this bill for more information regarding the late payment charge. Pay on or before the date due to avoid assessment of a late payment charge.

Make your check payable to XCEL ENERGY.

NOVEMBER						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

90 FP 1 B 1 1 A 10061 10061 **5 DGT



JOHN E. CUSTOMER, MARTHA W. CUSTOMER
 ADDRESS LINE 2
 ADDRESS LINE 3
 ADDRESS LINE 4
 1234 ANY STREET
 ANY CITY, MN 00000-0000



XCEL ENERGY
 P.O. BOX 9477
 MPLS, MN 55484-9477



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

SERVICE ADDRESS: 1234 ANY STREET, ANY CITY, MN 00000-0000
NEXT READ DATE: MM/DD/YY

ELECTRICITY SERVICE DETAILS

PREMISES NUMBER: 1234567890
INVOICE NUMBER: 1235689

Noted Change

METER READING INFORMATION		
METER 0000000000		
Read Dates: MM/DD/YY- MM/DD/YY (00 Days)		
DESCRIPTION	USAGE TYPE	USAGE
Total Energy	Actual	000 kWh

CUSTOMER
MESSAGING

ELECTRICITY CHARGES

RATE: Residential Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Basic Service Chg				\$00.00
City Req Fac Surchg				\$00.00
Res Savers Switch AC				- \$00.00 CR
Windsor Program	000	kWh	\$0.000000	\$00.00
Energy Charge Summer/Winter	000	kWh	\$0.000000	\$00.00
Low Income Cr Ene Summer/Winter	000	kWh	- \$0.000000	- \$00.00 CR
Low Income Cr Fuel	000	kWh	- \$0.000000	- \$00.00 CR
Environmt Imprvmt Rider	000	kWh	\$0.000000	\$00.00
Fuel Cost Charge	000	kWh	\$0.000000	\$00.00
Affordability Chrg				\$00.00
Resource Adjustment				\$00.00
Interim Rate Adj				\$00.00
Subtotal				\$00.00
City Fees				\$0.00
Transit Improvement Tax			0.000%	\$0.00
City Tax			0.000%	\$0.00
County Tax			0.000%	\$0.00
State Tax			0.000%	\$0.00
Total				\$00.00

CUSTOMER
MESSAGING



SERVICE ADDRESS	ACCOUNT NUMBER		DUE DATE
JOHN E. CUSTOMER MARTHA W. CUSTOMER 1234 ANY STREET ANY CITY, MN 00000-0000	51-1234567890-1		MM/DD/YYYY
	STATEMENT NUMBER	STATEMENT DATE	AMOUNT DUE
	0123456789	MM/DD/YYYY	\$00.00

INFORMATION ABOUT YOUR BILL

For an average residential customer, __% of your bill refers to power plant costs, __% to high voltage line costs and __% to the cost of local wires connected to your home.

CUSTOMER
MESSAGING

CUSTOMER
MESSAGING

Monthly Manual Meter Reading Service Rider Fixed Charge

Costs in dollars Per Meter Per Month

Labor expense (including benefits)	\$17.12
Transportation and other non-labor expense	\$1.69
Incremental cost(savings) of the interval data meter - ESTIMATED	\$0.00
Meter reading costs included in base rates	<u>(\$1.00)</u>
Monthly Manual Meter Reading Fixed Charge	\$17.81

Non-Standard Meter Installation and Removal Charge

time and cost is per meter

[illegible]

CERTIFICATE OF SERVICE

I, Paget Pengelly, hereby certify that I have this day served copies of the foregoing document on the attached list of persons.

xx by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota

xx electronic filing

**Docket Nos. E002/M-20-____
 E002/M-19-666
 Xcel Energy's Miscellaneous Electric Service List**

Dated this 10th day of July 2020

/s/

Paget Pengelly
Regulatory Administrator

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	Aafedt	daafedt@winthrop.com	Winthrop & Weinstine, P.A.	Suite 3500, 225 South Sixth Street Minneapolis, MN 554024629	Electronic Service	No	OFF_SL_19-666_Official
Michael	Allen	michael.allen@allenergysolar.com	All Energy Solar	721 W 26th st Suite 211 Minneapolis, Minnesota 55405	Electronic Service	No	OFF_SL_19-666_Official
David	Amster Olzweski	david@mysunshare.com	SunShare, LLC	1151 Bannock St Denver, CO 80204-8020	Electronic Service	No	OFF_SL_19-666_Official
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022191	Electronic Service	No	OFF_SL_19-666_Official
Ellen	Anderson	ellena@umn.edu	325 Learning and Environmental Sciences	1954 Buford Ave Saint Paul, MN 55108	Electronic Service	No	OFF_SL_19-666_Official
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Mara	Ascheman	mara.k.ascheman@xcelenenergy.com	Xcel Energy	414 Nicollet Mall Fl 5 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Donna	Attanasio	dattanasio@law.gwu.edu	George Washington University	2000 H Street NW Washington, DC 20052	Electronic Service	No	OFF_SL_19-666_Official
John	Bailey	bailey@ilsr.org	Institute For Local Self-Reliance	1313 5th St SE Ste 303 Minneapolis, MN 55414	Electronic Service	No	OFF_SL_19-666_Official
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Sydney R.	Briggs	sbriggs@swce.coop	Steele-Waseca Cooperative Electric	2411 W. Bridge St PO Box 485 Owatonna, MN 55060-0485	Electronic Service	No	OFF_SL_19-666_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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LORI	CLOBES	lclobes@mienergy.coop	MiEnergy Cooperative	31110 COOPERATIVE WAY PO BOX 626 RUSHFORD, MN 55971	Electronic Service	No	OFF_SL_19-666_Official
James	Canaday	james.canaday@ag.state.mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-666_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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George	Crocker	gwille@nawo.org	North American Water Office	PO Box 174 Lake Elmo, MN 55042	Electronic Service	No	OFF_SL_19-666_Official
Arthur	Crowell	Crowell.arthur@yahoo.com	A Work of Art Solar	14333 Orchard Rd. Minnetonka, MN 55345	Electronic Service	No	OFF_SL_19-666_Official
David	Dahlberg	davedahlberg@nweco.com	Northwestern Wisconsin Electric Company	P.O. Box 9 104 South Pine Street Grantsburg, WI 548400009	Electronic Service	No	OFF_SL_19-666_Official
James	Denniston	james.r.denniston@xcenergy.com	Xcel Energy Services, Inc.	414 Nicollet Mall, Fifth Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Curt	Dieren	curt.dieren@dgr.com	L&O Power Cooperative	1302 S Union St Rock Rapids, IA 51246	Electronic Service	No	OFF_SL_19-666_Official
Carlton	Doyle Fontaine	carlton.doyle.fontaine@senate.mn	MN Senate	75 Rev Dr Martin Luther King Jr Blvd Room G-17 St Paul, MN 55155	Electronic Service	No	OFF_SL_19-666_Official
Brian	Draxten	bhdraxten@otpc.com	Otter Tail Power Company	P.O. Box 496 215 South Cascade Street Fergus Falls, MN 565380498	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Rebecca	Eilers	rebecca.d.eilers@xcelenergy.com	Xcel Energy	414 Nicollet Mall - 401 7th Floor Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
Bob	Eleff	bob.eleff@house.mn	Regulated Industries Cmte	100 Rev Dr Martin Luther King Jr Blvd Room 600 St. Paul, MN 55155	Electronic Service	No	OFF_SL_19-666_Official
Betsy	Engelking	betsy@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_19-666_Official
Oncu	Er	oncu.er@avantenergy.com	Avant Energy, Agent for MMPA	220 S. Sixth St. Ste. 1300 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official
James C.	Erickson	jericksonkbc@gmail.com	Kelly Bay Consulting	17 Quechee St Superior, WI 54880-4421	Electronic Service	No	OFF_SL_19-666_Official
Jim	Erickson	jim.g.erickson@xcelenergy.com	Xcel Energy	414 Nicollet mall 7th Flr Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	2720 E. 22nd St Institute for Local Self-Reliance Minneapolis, MN 55406	Electronic Service	No	OFF_SL_19-666_Official
Sharon	Ferguson	sharon.ferguson@state.mn.us	Department of Commerce	85 7th Place E Ste 280 Saint Paul, MN 551012198	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Nathan	Franzen	nathan@geronimoenergy.com	Geronimo Energy, LLC	8400 Normandale Lake Blvd Suite 1200 Bloomington, MN 55437	Electronic Service	No	OFF_SL_19-666_Official
Hal	Galvin	halgalvin@comcast.net	Provectus Energy Development llc	1936 Kenwood Parkway Minneapolis, MN 55405	Electronic Service	No	OFF_SL_19-666_Official
Edward	Garvey	edward.garvey@AESLconsulting.com	AESL Consulting	32 Lawton St Saint Paul, MN 55102-2617	Electronic Service	No	OFF_SL_19-666_Official
Edward	Garvey	garveyed@aol.com	Residence	32 Lawton St Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Bruce	Gerhardson	bgerhardson@otpc.com	Otter Tail Power Company	PO Box 496 215 S Cascade St Fergus Falls, MN 565380496	Electronic Service	No	OFF_SL_19-666_Official
Allen	Gleckner	gleckner@fresh-energy.org	Fresh Energy	408 St. Peter Street Ste 220 Saint Paul, Minnesota 55102	Electronic Service	No	OFF_SL_19-666_Official
Janet	Gonzalez	Janet.gonzalez@state.mn.us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	OFF_SL_19-666_Official
Timothy	Gulden	timothy.gulden@yahoo.com	Winona Renewable Energy, LLC	1449 Ridgewood Dr Winona, MN 55987	Electronic Service	No	OFF_SL_19-666_Official
Tony	Hainault	anthony.hainault@co.hennepin.mn.us	Hennepin County DES	701 4th Ave S Ste 700 Minneapolis, MN 55415-1842	Electronic Service	No	OFF_SL_19-666_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Shane	Henriksen	shane.henriksen@enbridge.com	Enbridge Energy Company, Inc.	1409 Hammond Ave FL 2 Superior, WI 54880	Electronic Service	No	OFF_SL_19-666_Official
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Jan	Hubbard	jan.hubbard@comcast.net		7730 Mississippi Lane Brooklyn Park, MN 55444	Electronic Service	No	OFF_SL_19-666_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Nate	Jones	njones@hcpd.com	Heartland Consumers Power	PO Box 248 Madison, SD 57042	Electronic Service	No	OFF_SL_19-666_Official
Michael	Kampmeyer	mkampmeyer@a-e-group.com	AEG Group, LLC	260 Salem Church Road Sunfish Lake, Minnesota 55118	Electronic Service	No	OFF_SL_19-666_Official
Mark J.	Kaufman	mkaufman@ibewlocal949.org	IBEW Local Union 949	12908 Nicollet Avenue South Burnsville, MN 55337	Electronic Service	No	OFF_SL_19-666_Official
Ted	Kjos	tkjos@mienergy.coop	MiEnergy Cooperative	31110 Cooperative Way PO Box 626 Rushford, MN 55971	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln St Anthony Village, MN 55418-3238	Electronic Service	No	OFF_SL_19-666_Official
Chris	Kopel	chrisk@CMPASgroup.org	Central Minnesota Municipal Power Agency	459 S Grove St Blue Earth, MN 56013-2629	Electronic Service	No	OFF_SL_19-666_Official
Brian	Krambeer	bkrambeer@mienergy.coop	MiEnergy Cooperative	PO Box 626 31110 Cooperative Way Rushford, MN 55971	Electronic Service	No	OFF_SL_19-666_Official
Jon	Kramer	sundialjon@gmail.com	Sundial Solar	3209 W 76th St Edina, MN 55435	Electronic Service	No	OFF_SL_19-666_Official
Michael	Krause	michaelkrause61@yahoo.com	Kandiyo Consulting, LLC	433 S 7th Street Suite 2025 Minneapolis, Minnesota 55415	Electronic Service	No	OFF_SL_19-666_Official
Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Joseph	Meyer	joseph.meyer@ag.state.mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	OFF_SL_19-666_Official
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David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St Duluth, MN 558022093	Electronic Service	No	OFF_SL_19-666_Official
Dalene	Monsebroten	dalene.monsebroten@nmpagency.com	Northern Municipal Power Agency	123 2nd St W Thief River Falls, MN 56701	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Heidi	Nelson	Heidi.nelson@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	OFF_SL_19-666_Official
Ben	Nelson	benn@cmpasgroup.org	CMMPA	459 South Grove Street Blue Earth, MN 56013	Electronic Service	No	OFF_SL_19-666_Official
Dale	Niezwaag	dniezwaag@bepec.com	Basin Electric Power Cooperative	1717 East Interstate Avenue Bismarck, ND 58503	Electronic Service	No	OFF_SL_19-666_Official
David	Niles	david.niles@avantenergy.com	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-666_Official
Sephra	Ninow	sephra.ninow@energycenter.org	Center for Sustainable Energy	426 17th Street, Suite 700 Oakland, CA 94612	Electronic Service	No	OFF_SL_19-666_Official
Rolf	Nordstrom	rnordstrom@gpisd.net	Great Plains Institute	2801 21ST AVE S STE 220 Minneapolis, MN 55407-1229	Electronic Service	No	OFF_SL_19-666_Official
Samantha	Norris	samanthanorris@alliantenergy.com	Interstate Power and Light Company	200 1st Street SE PO Box 351 Cedar Rapids, IA 524060351	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
David	O'Brien	david.obrien@navigant.com	Navigant Consulting	77 South Bedford St Ste 400 Burlington, MA 01803	Electronic Service	No	OFF_SL_19-666_Official
Jeff	O'Neill	jeff.oneill@ci.monticello.mn.us	City of Monticello	505 Walnut Street Suite 1 Monticello, Minnesota 55362	Electronic Service	No	OFF_SL_19-666_Official
Russell	Olson	rolson@hcpd.com	Heartland Consumers Power District	PO Box 248 Madison, SD 570420248	Electronic Service	No	OFF_SL_19-666_Official
Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	OFF_SL_19-666_Official
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Jennifer	Peterson	jjpeterson@mnpower.com	Minnesota Power	30 West Superior Street Duluth, MN 55802	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Gregory	Randa	granda@lakecountrypower.com	Lake Country Power	26039 Bear Ridge Drive Cohasset, MN 55721	Electronic Service	No	OFF_SL_19-666_Official
Mark	Rathbun	mrathbun@grenergy.com	Great River Energy	12300 Elm Creek Blvd Maple Grove, MN 55369	Electronic Service	No	OFF_SL_19-666_Official
Michael	Reinertson	michael.reinertson@avanteenergy.com	Avant Energy	220 S. Sixth St. Ste 1300 Minneapolis, Minnesota 55402	Electronic Service	No	OFF_SL_19-666_Official
John C.	Reinhardt	N/A	Laura A. Reinhardt	3552 26th Ave S Minneapolis, MN 55406	Paper Service	No	OFF_SL_19-666_Official
Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	Yes	OFF_SL_19-666_Official
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	OFF_SL_19-666_Official
Isabel	Ricker	ricker@fresh-energy.org	Fresh Energy	408 Saint Peter Street Suite 220 Saint Paul, MN 55102	Electronic Service	No	OFF_SL_19-666_Official
Amanda	Rome	amanda.rome@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 5 Minneapolis, MN 55401	Electronic Service	No	OFF_SL_19-666_Official

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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[illegible]

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Michael	Krikava	mkrikava@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 S 8th St Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric

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Carol A.	Overland	overland@legalelectric.org	Legalelectric - Overland Law Office	1110 West Avenue Red Wing, MN 55066	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misc Electric

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Generic Notice	Residential Utilities Division	residential.utilities@ag.state.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Kevin	Reuther	kreuther@mncenter.org	MN Center for Environmental Advocacy	26 E Exchange St, Ste 206 St. Paul, MN 551011667	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Richard	Savelkoul	rsavelkoul@martinsquires.com	Martin & Squires, P.A.	332 Minnesota Street Ste W2750 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Will	Seuffert	Will.Seuffert@state.mn.us	Public Utilities Commission	121 7th PI E Ste 350 Saint Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Ken	Smith	ken.smith@districtenergy.com	District Energy St. Paul Inc.	76 W Kellogg Blvd St. Paul, MN 55102	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Byron E.	Starns	byron.starns@stinson.com	STINSON LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
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Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Lynnette	Sweet	Regulatory.records@xcelenergy.com	Xcel Energy	414 Nicollet Mall FL 7 Minneapolis, MN 554011993	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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Lisa	Veith	lisa.veith@ci.stpaul.mn.us	City of St. Paul	400 City Hall and Courthouse 15 West Kellogg Blvd. St. Paul, MN 55102	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Joseph	Windler	jwindler@winthrop.com	Winthrop & Weinstine	225 South Sixth Street, Suite 3500 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric
Patrick	Zomer	Patrick.Zomer@lawmoss.com	Moss & Barnett a Professional Association	150 S. 5th Street, #1200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Misl Electric