



414 Nicollet Mall
Minneapolis, MN 55401

March 20, 2018

—Via Electronic Filing—

Daniel P. Wolf
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

RE: UPDATE
STANDBY SERVICE TARIFFS
DOCKET NO. E999/CI-15-115

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits this letter to update the Commission on the final revisions sought to the terms of Standby Service following further discussions with Flint Hills Resources and other interested parties since the Company's filing dated January 31, 2018. Since that time, the Company, the Department of Commerce, Flint Hills Resources, and the Midwest Cogeneration Association have continued discussions and agreed to final revisions of the Standby Service Rider.

We respectfully request the Commission approve the tariff sheets attached here. These tariff sheets contain modifications that describe the accord achieved with parties and resolve all issues. The sheets contain:

- (1) modifications to the terms of the Standby Service Rider agreed to by the Company, Flint Hills Resources, the Department of Commerce, and the Midwest Cogeneration Association, and
- (2) the terms of the settlement addressing the PV Demand Credit Rider, as discussed in the Company's filings in this proceeding dated November 2, 2017 and unchanged from the Company's January 4, 2018 filing.¹ The

¹ This settlement is supported by the Company, the Department of Commerce, and MnSEIA. It is the Company's understanding that Target Corporation is not opposed to this settlement.

Company also provided clarifying language on customer availability in its January 31, 2018 filing.

Parties agree to these certain revisions to Standby Service that would support its use for service to Flint Hills Resources and would replace Flint Hills Resources' prior request for the formation of a separate Large CHP Rider. The Company's agreement to the revisions described below is contingent on parties' ongoing agreement to use the Standby Service Rider as modified.

To assist in clarifying the record on the parties' proposals, we describe the terms agreed to by the parties here.

The parties agree to modify the terms of Standby Service as follows:

1. Clarify language and specify the three types of standby service options in the Availability provision;
2. Remove the exempt (grace) hours provision as recommended by the Department with a corresponding reduction in the Peak Period Standby Energy Surcharge per kWh;
3. Reduce the share of generation and transmission costs included in the standby reservation demand rate from 12 percent to 7.4 percent of the amount included in base tariff demand rates;
4. Clarify that energy used under the Standby Service Rider does not qualify for the base tariff Energy Charge Credit;
5. Revise the definition of peak period standby energy for consistency with the removal of the exempt hours provision and to more specifically define its measurement;
6. Expand and clarify the Definition of Peak Period for Standby Energy section;
7. Add clarity and additional descriptions to the Determination of the Demand provision;
8. Retain the option for monthly revisions of contract standby capacity as recommended in the Company's May 15, 2017 Reply Comments;

9. Specify in the Standby Service Electric Service Agreement the process and requirements for nominating contracted Standby capacity, including seasonal or monthly levels;
10. Remove the definition of excess standby energy usage from the Terms and Conditions of Service (No. 9) as unnecessary without an exempt hours provision;
11. Revise the applicable charge for use of unscheduled standby service during system peak hours and where Company provides advance notice to customer of system peak conditions;
12. Remove written notice require for scheduled maintenance during the months of April, May, October and November;
13. Allow additional scheduled maintenance periods for customers with greater than 1,000 kW of contracted standby capacity subject to advance notice and Company approval;
14. Allow scheduled maintenance on weekends and holidays subject to advance Company approval for customer with a time of day base tariff;
15. Revise the maximum annual duration of qualified scheduled maintenance periods from six weeks to eight weeks (56 days), as recommended in the Company's May 15, 2017 Reply Comments;
16. Revise the 24 hour notice requirement for changes to the annual projection of scheduled maintenance from 48 hours to 72 hours to accommodate holiday weekends; and
17. Revise the charge for non-compliance with Scheduled Maintenance Option requirements and limit its applicability to a single month.

The parties agree to establish a PV Demand Credit Rider, as filed on January 4, 2018, as follows:

1. The level of the credit in the PV Rider assumes a starting value of \$4.52/kW credit and 11 months as the average non-grace period months in the conversion formula for the kWh based solar credit, resulting in a credit value of 7.139 cents per kWh;
2. Current customers under the Standby Service Rider who qualify under the PV Rider at a given location will no longer be on the Standby Service Rider and will be enrolled in the PV Rider. New customers who qualify for the PV Rider at a given location may also enroll in the PV Rider under this rate provided that they do so before the date of an order issued by the Commission authorizing a change to this rate. This subsequently revised rate in an updated PV Demand Credit Rider is referred to as the Revised PV Rider Rate;
3. The PV Rider credit rate of 7.139 cents per kWh will be available to customers properly enrolled at the rate as described above for a given location for six years from the date of the Commission order approving the PV Rider. Any customer enrolling in the Revised PV Rider will receive the credit as set forth in the Revised PV Rider Rate tariff;
4. Require Xcel Energy, following discussions with the Department of Commerce, MNSEIA and other interested parties, to file a proposed methodology for determining the appropriate solar capacity or demand credit. The methodology should consider reasonable ways to incorporate cost of service principles in demand charges for behind-the-meter solar customer accounts as well as also address the additional issues surrounding the solar capacity or demand credit rider as raised by parties in this docket. Xcel Energy should file its proposal and discussion of the additional issues by September 19, 2018 as well as rationales for why this study is or is not a better indicator of capacity or demand value than previously derived values. Parties will be allowed 60 days to respond;
5. Require Xcel Energy, with input from the Department, MNSEIA and other interested parties, to evaluate to what extent the billing demand quantities of customers with solar generation is affected by their solar production. Xcel Energy will review whether there is a mismatch between the net billing demand of individual customers with solar installations and their net demand on system peak demand days relative to non-solar generation customers and, if so, how to reflect that

difference appropriately in demand billing or comparable rate component; and

6. Require Xcel Energy to conduct a new ELCC load study in preparation for its resource planning process. In addition, Xcel will compare this credit to current peak controlled demand credits. All study results will be provided to parties by July 1, 2018;

It is the Company's understanding that the terms identified here would fulfill the intent of Order Point 4 in the Commission's May 19, 2014 Order in Docket No. E002/CI-13-315 and that the Commission could terminate the Company's compliance obligation associated with Order Point 4.

For ease of review, we have included a redline to the Company's current tariff, to the terms of these agreements. The redline and clean tariff sheets are included as Attachment A to this letter.

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 amy.a.liberkowski@xcelenergy.com or (612) 330-6613 if you have any questions regarding this filing.

Sincerely,

/s/

AMY A. LIBERKOWSKI
DIRECTOR, REGULATORY PRICING & ANALYSIS

Enclosure
c: Service List

Redline

MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

RATE SCHEDULES

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STANDBY SERVICE RIDER

Section No. 5
~~47th~~^{18th} Revised Sheet No. 101

AVAILABILITY

Applicable to customers that use an customer-sited alternative generation source with a capacity greater than 100 kW ~~to, where the alternative generation serves a defined all or a~~ portion of the customer's total electric energy requirements and where customer chooses to use the Company's electric service to serve that defined load when the customer-sited alternative generation is either partly or wholly unavailable. Customer must select one of the following services types: Firm Unscheduled Maintenance, Firm Scheduled Maintenance, or Non-Firm service. This Rider is not available to solar photovoltaic generation systems and is closed to new wind generation systems.

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Under this tariff the Company will provide Standby Service in accordance with the provisions of this tariff as well as those of Section 2.4 of the General Rules and Regulations.

RESERVATION RATE

	<u>Firm Standby</u>		<u>Non-Firm Standby</u>
	<u>Unscheduled Maintenance</u>	<u>Scheduled Maintenance</u>	
Customer Charge per Month	\$25.64	\$25.64	\$25.64
<u>Reservation Demand Charge per Month per kW of Contracted Standby Capacity</u>			
Secondary Voltage Service	\$3.54 ^{\$3.08}	\$3.44 ^{\$2.98}	\$2.35
Primary Voltage Service	\$2.74 ^{\$2.28}	\$2.64 ^{\$2.18}	\$1.55
Transmission Transformed Voltage Service	\$1.99 ^{\$1.53}	\$1.89 ^{\$1.43}	\$0.80
Transmission Voltage Service	\$1.19 ^{\$0.73}	\$1.09 ^{\$0.63}	\$0.00

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~~Hours per kW of Contracted Standby Capacity -- Annual Grace Period Use of Unscheduled Standby, Exemption from the Demand Charge Component of the "Usage Rates" below.~~

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Peak Period Standby Energy Surcharge per kWh

June – September	\$0.06545
Other Months	\$0.04242

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Energy Charge per kWh. All energy used under this Rider will be charged at the applicable energy rate of the base tariff to which this Rider is attached and is not applicable to the base tariff Energy Charge Credit.

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STANDBY ENERGY USAGE

Standby energy usage occurs when the customer-sited generation source output in kW is less than contracted standby kW capacity. Standby energy usage in kWh is measured in 15-minute intervals and is defined as the kWh energy associated with constant operation of customer-sited generation at the contract standby kW capacity level less actual energy production of customer-sited generation, but not less than zero kWh for each 15-minute interval. Actual energy production of customer-sited generation will be measured by Company-owned and installed production metering equipment.

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USAGE RATES

(Continued on Sheet No. 5-10~~21~~¹)

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~~Demand Charge per kW of Standby Capacity Used. After the Annual Grace Period hours provided for
Unscheduled and Scheduled Service are used up, the Demand Charge of the base tariff, to which this Rider is
attached, replaces the above Reservation Rate.~~

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~~Energy Charge per kWh of Standby Energy Used. All energy used under this Rider will be charged at the
applicable energy rate of the base tariff to which this Rider is attached.~~

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PHOTOVOLTAIC SOLAR CREDIT

~~A capacity credit of \$5.15 per month per kW is applicable when the alternative generation source used by the
customer is photovoltaic solar. This credit shall only be applied to the applicable Demand Charge of the base
tariff for the contracted demand component of the Usage Rates outside of the Grace Period.~~

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~~In addition, customer bills under this rate are subject to the following adjustments and/or charges.~~

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FUEL CLAUSE

~~Bills are subject to the adjustments provided for in the Fuel Clause Rider.~~

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(Continued on Sheet No. 5-10~~21~~1)

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STANDBY SERVICE RIDER (Continued)

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PEAK PERIOD STANDBY ENERGY USAGE

Peak period standby energy usage is the amount of Standby Energy Usage occurring during the peak period that does not occur during a qualifying scheduled maintenance period or is associated with Non-Firm service. Peak period standby energy usage is subject to the Peak Period Standby Energy Surcharge.

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DEFINITION OF PEAK PERIOD

Peak period hours are the six hours between 1:00 p.m. and 7 p.m. for all days.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

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FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

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RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

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ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LOW INCOME ENERGY DISCOUNT RIDER

Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

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(Continued on Sheet No. 5-102)

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STANDBY SERVICE RIDER (Continued)

Section No. 5
~~13th~~14th Revised Sheet No. 102

RESOURCE ADJUSTMENT

~~Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.~~

ENVIRONMENTAL IMPROVEMENT RIDER

~~Bills are subject to the adjustments provided for in the Environmental Improvement Rider.~~

SURCHARGE

~~In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.~~

LOW INCOME ENERGY DISCOUNT RIDER

~~Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.~~

~~In addition, customer bills under this rate are subject to the following adjustments and/or charges.~~

LATE PAYMENT CHARGE

~~Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.~~

DETERMINATION OF DEMAND

~~The billing demand applicable to this Standby Service Rider is determined separately from the billing demand applicable to the base tariff to which this Rider attaches. The demand associated with actual use of Standby Service will be subtracted from the total metered demand, to determine the demand for standard service, to which the base tariff demand charge applies.~~

~~For applying the Standby Service Reservation Rate, the billing demand will be the contracted Standby capacity specified in the customer's Electric Service Agreement, which is the maximum capacity of Standby Service the Company is obligated to supply, and is the amount of load served by the customer's alternative generation. In no case shall the contracted Standby capacity be established at more than the capacity of the customer's generation facility. This contracted Standby capacity may be different for the summer and winter seasons.~~

~~For applying the demand component of the Usage Rates, the billing demand shall be the capacity actually used by the customer, when customer's generator is wholly or partly out of service. This amount of Standby capacity actually used shall be the contracted Standby capacity less the actual capacity supplied by the customer's generating facilities (assuming it is operating, but not at full capacity), but not less than zero.~~

~~The billing demand in kW for application to the Standby Service Reservation Demand Charge rate will be the contracted Standby capacity specified in the customer's Electric Service Agreement, which is the maximum capacity of Standby Service the Company is obligated to supply, and is the amount of load expected to be served by the customer-sited generation source. In no case shall the contracted Standby capacity be established at more than the capacity of the customer-sited generation source. Contracted Standby capacity may be different for the summer and winter seasons or by month.~~

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STANDBY SERVICE RIDER (Continued)

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The metered capacity in kW supplied by Company for Standby Energy Usage by customer will be excluded from the actual demand in kW used to determine any billed demand for the base tariff to which this Rider is attached. This exclusion is determined as the maximum total customer demand, defined as the total of capacity supplied by the customer-sited generation source and the Company measured in 15-minute intervals, less contracted Standby capacity. All demand measurements will be determined with Company owned and installed meters. The exclusion of capacity supplied by Company for Standby Energy Usage by customer from any base tariff determination of demand calculation is represented by the equation: Base tariff actual demand in kW = Site load (Company supplied capacity in kW measured by the base tariff service meter + Customer supplied capacity in kW measured by production metering of customer-sited generation) – Contracted Standby capacity in kW as determined by the customer nomination in effect for the applicable billing period.

Any billing demand in kW for the base tariff to which this Rider is attached will be calculated using the applicable determination of demand provision defined in the base tariff. For a time of day base tariff, the on-peak and off-peak periods used for billed demand calculations will be based on the definition of peak periods included in the time of day base tariff.

TERMS AND CONDITIONS OF SERVICE

1. Standby Service Rider is applicable to any customer who requires greater than 100 kW of Standby capacity. Standby Service may not be used by a customer to serve controllable demand that is subject to interruption as determined by the Company under the Company's controllable service schedules.

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STANDBY SERVICE RIDER (Continued)

Section No. 5

~~6th~~^{7th} Revised Sheet No. 103

TERMS AND CONDITIONS OF SERVICE (Continued)

2. Customer will execute an Electric Service Agreement with the Company which will specify:
 - a. Type of Standby Service elected by the customer and the base tariff to which this Rider is attached.
 - ~~b.~~ b. —The total Standby capacity requirements for which Company will be providing Standby power and to which the Standby Service reservation rate applies as well as the expected level of standard service the customer will take, even if the standard service level is expected to be zero.
 - ~~b-c.~~ b-c. The process and requirements for nominating contracted Standby capacity, including seasonal or monthly levels.
3. The Company's standard service meter will be detented to measure only the amount of capacity and energy provided by the Company to the customer.
4. Company will not be obligated to supply Standby Service to back-up a customer's generator at a level in excess of the Standby capacity for which customer has contracted. This restriction in no way limits the amount of standard service the customer requires from the Company under the standard service tariff to which this Rider is attached. Any limits on standard service are governed by the provisions contained in the standard service tariffs.
5. Customer will be liable for all damages allowed by law to the extent caused by customer's use of Standby power in excess of contracted Standby capacity.
6. Company will require customer to revise the Electric Service Agreement to contract for additional Standby capacity if the customer exceeds the contract amount in any three of the preceding 12 months.
7. Customer will annually furnish documentation to Company confirming the maximum capacity and reliability of the power source for which customer requires Standby Service. The Company and the customer will review the actual output and performance of the power source relative to the capacity nominated for Standby Service in the Electric Service Agreement. If this review shows a significant and consistent shortfall between the power source's actual performance and the nominated capacity due to factors reasonably within the customer's control, the Company will notify the customer of its intent to refuse to provide Standby Service. Upon receipt of such notice, the customer may agree to reduce the Standby Service nomination in its Electric Service Agreement or to take such action as necessary to operate the power source at or reasonably near the nominated Standby Service capacity. If the customer's power source does not operate at or reasonably near that level during the 12 months immediately following the Company's notice, the Company may refuse to provide Standby Service until such time as the customer agrees to reduce its Standby Service nomination or provide the Company with documentation demonstrating the power source's actual performance at or reasonably near the nominated Standby Service capacity for a trial period of three consecutive months.
8. Customer will remain on Standby Service for a period of not less than 12 months.

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STANDBY SERVICE RIDER (Continued)

Section No. 5

~~7th~~^{8th} Revised Sheet No. 104

TERMS AND CONDITIONS OF SERVICE (Continued)

~~9. Customer will be allowed annually a Grace Period as specified above for use of unscheduled Standby Service without incurring additional demand charges for use of Standby Service. Use of this Grace Period will be measured in terms of Standby energy used by customer with the maximum amount of grace energy being the hours specified above times the contracted Standby capacity. After the Grace Period has been exhausted and customer uses unscheduled Standby Service, the customer shall pay the Demand Charge specified in the Usage Rates instead of the Reservation Fees as listed above. In a billing month, when customer uses Standby Service, the base tariff billing demand and the Standby Service billing demand will be determined individually. The base tariff billing demand will be the greatest 15 minute load determined after separating Standby Service usage from the total metered demands. The time of this determined greatest 15 minute demand for application to the base tariff may or may not occur at the same time when Standby Service is used. Billed demand charges for usage of Standby Service will be in addition to the billed demand charges for the base tariff as just described.~~

~~Customers contracting for Standby Service to back up a solar photovoltaic system have the option to move their annual start date and subsequent Grace Periods forward to June 1. However, a customer shall not receive two annual Grace Periods for the same solar photovoltaic system in any rolling 12-month billing period.~~

~~10. Notwithstanding the Grace Period noted in provision 9 above, in the event customer requires unscheduled Standby Service at the times of Company's system peak hours in which the Company would have insufficient accredited capacity under the Midwest Reliability Organization (MRO) or any successor organization, and the Company incurs additional capacity costs as a result of such unscheduled Standby Service, customer shall pay Peak Demand Charges described below for the month in which such unscheduled Standby Service occurs and for each of the five succeeding months, instead of the above listed demand charges, or the demand charges under Section 9 above. Such Peak Demand Charges shall be based upon the following:~~

~~a. If customer has notified Company of an unscheduled outage at least three hours prior to Company's system peak hour, such Peak Demand Charges shall be based on one-sixth of any additional capacity costs incurred by the Company as a result of the unscheduled outage. Such additional capacity costs shall not include any after-the-fact capacity purchase costs incurred by the Company.~~

~~b. If customer has not notified the Company of any unscheduled outage at least three hours prior to the Company's system peak hour, such peak demand charges shall be based on one-sixth of any additional capacity costs or after-the-fact purchase costs incurred by the Company as a result of the unscheduled outage. The demand for billing purposes for the succeeding five months shall be equal to the demand placed on the system during the time of the Company's system peak hour in which the said additional capacity costs were incurred.~~

~~9. In the event Company provides advance notice to customer of expected system peak load conditions for a specified time period and customer uses unscheduled standby backup demand during that time period, the~~

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STANDBY SERVICE RIDER (Continued)

Section No. 5
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backup demand quantity used will be billed at the firm service demand charge from the base tariff to which this Rider is attached instead of the Reservation Demand charge. The quantity of unscheduled standby backup demand used for this provision will be the maximum 15-minute measured interval of unscheduled standby backup demand used during the specified system peak hours, measured as contracted standby capacity less the capacity provided by the customer-sited generation source. Company notice of expected system peak load conditions for this provision will be provided through the same means Company uses to notify interruptible customers of an interruption requirement.

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43-10. Company will install and charge customer for the additional metering necessary, to allow for determining Peak Period Standby Energy usage. In particular, the Company will install a separate meter that measures the flow of power and energy from the customer's own generating facility. Customer shall reimburse the Company for the costs of installing, operating, and maintaining the required additional metering and for any other facilities required to serve the customer's Standby load. If, as a result of the customer's construction and installation of their generating facility, it is more practical for the customer to install some or all of the metering equipment required, the customer may be permitted to do so, subject to Company's approval of such equipment.

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(Continued on Sheet No. 5-105)

Date Filed: ~~41-02-15~~⁰⁵⁻¹⁹⁻¹⁶ By: Christopher B. Clark Effective Date: ~~10-01-17~~
President, Northern States Power Company, a Minnesota corporation
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STANDBY SERVICE RIDER (Continued)

Section No. 5

~~7th~~^{8th} Revised Sheet No. 105

~~TERMS AND CONDITIONS OF SERVICE (Continued)~~

~~The provisions of this Section 10 shall not apply if appropriate capacity accreditation has been obtained for the customer's generation from the Midwest Reliability Organization (MRO), or any successor organization. Customer must take responsibility for the preparation of the information necessary for the accreditation filing. The Company will advise and assist the Customer in this process but failure of customer in the preparation of the information and/or failure to obtain accreditation of the customer's generation will result in the customer being ineligible for the exemption from the provisions of this Section 10.~~

~~11. In the event any portion of the capacity obtained by the Company, at additional costs, and which is attributable to the customer's use of Standby Service under Section 10 above, is subsequently also used to satisfy the requirements of the Company's other customers, the Peak Demand Charges under Section 10 above shall be reduced relative to the portion of said capacity used to serve other customers.~~

~~12. The Company shall provide notice to the Standby customers when peak load conditions are expected to occur through the same means that the Company notifies interruptible customers of the potential interruption.~~

~~13. Company will install and charge customer for the additional metering necessary, to allow for determination of the separate billing demand applicable to the base tariff and Standby Rider and for determining energy use under the Grace Period identified above. In particular, the Company will install a separate meter that measures the flow of power and energy from the customer's own generating facility. Customer shall reimburse the Company for the costs of installing, operating, and maintaining the required additional metering and for any other facilities required to serve the customer's Standby load. If, as a result of the customer's construction and installation of their generating facility, it is more practical for the customer to install some or all of the metering equipment required, the customer may be permitted to do so, subject to Company's approval of such equipment.~~

ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION

1. The optional Scheduled Maintenance rates are available to Standby Service customers who agree to schedule maintenance of their power source during qualifying scheduled maintenance periods.

2. Qualifying Scheduled Maintenance Periods

Maintenance may occur within the calendar months of April, May, October, and November without written customer notice to Company prior to the beginning of the maintenance period regardless of the size of the contracted Standby capacity.

(Continued on Sheet No. 5-106)

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STANDBY SERVICE RIDER (Continued)

Section No. 5

~~7th~~^{8th} Revised Sheet No. 105

In other months for customers with a base time of day tariff to which this Rider is attached, regardless of the size of the contracted Standby capacity, scheduled maintenance may occur, with Company approval, during weekends and holidays as identified in the time of day base tariff, where a documented customer request is provided no less than 48 hours prior to the beginning of the planned maintenance period. Company will endeavor to approve or deny the customer request within 24 hours of receiving the request.

For months other than April, May, October, and November, customers with a minimum contracted Standby capacity of 1,000 kW may schedule maintenance at a time period mutually agreed to by Company and customer, following a documented customer request. These time periods for scheduled maintenance will normally not include those times when Company expects high system seasonal peak load conditions or high energy production costs.

Customer shall provide an annual projection of scheduled maintenance to the Company. Customer shall be allowed changes or additions to this projection upon notice to the Company based on the following schedule:

<u>Outage Length</u>	<u>Required Notice</u>
<u>Less than 72 hours</u>	<u>24 hours</u>
<u>3 days to 30 days</u>	<u>7 days</u>
<u>Over 30 days</u>	<u>90 days</u>

3. The duration of qualifying scheduled maintenance periods may not exceed a total of 56 days in any 12 month period.

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(Continued on Sheet No. 5-106)

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

STANDBY SERVICE RIDER (Continued)

Section No. 5
~~7th~~^{8th} Revised Sheet No. 106

ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION (Continued)

~~1. The optional Scheduled Maintenance rates are available to Standby Service customers who agree to schedule maintenance of their power source during qualifying scheduled maintenance periods.~~

~~2. Qualifying Scheduled Maintenance Periods~~

~~Customers With Greater Than 100 kW to 10,000 kW of Contracted Standby Capacity. Maintenance must occur within the calendar months of April, May, October, and November. Customer must provide Company with written notice of scheduled maintenance prior to the beginning of the maintenance period.~~

~~Customers With Greater Than 10,000 kW of Contracted Standby Capacity. Maintenance must occur at a time period mutually agreed to by Company and customer. These time periods will normally not include those times when Company expects system seasonal peak load conditions to occur, nor at those times when Company is required to use generation or to purchase power, with production costs of \$70 or more per MWh. Customer shall provide an annual projection of scheduled maintenance to the Company. Customer shall be allowed changes or additions to this projection upon notice to the Company based on the following schedule:~~

<u>Outage Length</u>	<u>Required Notice</u>
Less than 48 hours	24 hours
2 days to 30 days	7 days
Over 30 days	90 days

~~3. The duration of qualifying scheduled maintenance periods may not exceed a total of six weeks in any 12-month period.~~

~~4. An additional charge shall apply if customer does not comply with all terms and conditions for qualifying scheduled maintenance periods during any billing month, all use of Standby Service for the same month will be subject to the Peak Period Standby Energy charge provision. Company may determine partial non-compliance and limit the quantity of Standby Service usage subject to the Peak Period Standby Energy charge provision. Company reserves the right to remove availability of the Scheduled Maintenance Option for any customer upon a determination of significant and multiple occurrences of failure to comply with all associated terms and conditions. The additional charge shall be determined by calculating the additional charges which would have applied if customer were billed on the Unscheduled Maintenance Option for the period extending back to the customer's last scheduled maintenance period.~~

~~5. The demand charges of the base tariffs shall not apply to use of Standby Service during qualifying scheduled maintenance periods. Also, use of Standby Service during qualifying scheduled maintenance periods, will not count against the grace period be included in the determination of Peak Period Standby Energy usage.~~

(Continued on Sheet No. 5-107)

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COMPETITIVE MARKET RIDER-
(Continued)PHOTOVOLTAIC DEMAND CREDIT RIDER
RATE CODE A85 (CLOSED)
RATE CODE A86

Section No. 5
3rd4th Revised Sheet No. 125

CANCELLEDAVAILABILITY – GENERAL

Applicable by customer request to demand-metered commercial and industrial customers that use Solar Photovoltaic as a customer-sited generation source with a capacity greater than 40 kW (AC) with a single production meter to serve all or a portion of customer's electric energy requirements. Not available to customer-sited generation that is the subject of another incentive program such as Solar*Rewards.

AVAILABILITY – CLOSED RATE

Availability of the closed rate is limited to qualifying customer account locations that: 1) are receiving Standby Service Rider tariff service with the Photovoltaic Solar Credit on the date this Rider is originally approved by the Commission, or 2) have enrolled for the Rider before the date the credit rate in this Rider is revised by the Commission. The closed rate will remain fixed for a six year period beginning with the original Commission order date approving this Rider, expiring _____, 2024. After expiration of the closed rate, the applicable standard rate will replace the closed rate.

The standard rate will apply to customer account locations that do not qualify for the closed rate. The standard rate may be revised at any time subject to approval by the Commission.

RATE

Customer Charge per Month \$25.75

Credit per kWh of Peak Period Solar Photovoltaic Generation (A85 - Closed) \$0.07139

Credit per kWh of Peak Period Solar Photovoltaic Generation (A86 - Standard) \$0.07139

CREDIT KWH LIMIT

The maximum kWh applied to the Rider credit per kWh each billing period is the Peak Period maximum 15-minute Solar Photovoltaic kW output for the billing period times 100 hours for billing periods ending in the months of June, July, August or September and 75 hours for billing periods ending in other months.

CREDIT LIMIT

The maximum credit for each billing period is the applicable standard or on-peak billed demand charge from the base tariff associated with this Rider. For Peak-Controlled Service and Peak-Controlled Time of Day Service customers, the maximum credit for each billing period is the billed demand charge for Firm Demand.

DEFINITION OF PEAK PERIOD

Peak period hours are the six hours between 1:00 p.m. and 7 p.m. for all days.

TERMS AND CONDITIONS OF SERVICE

1. Customer will execute an Electric Service Agreement with the Company that will specify:
 - a) The base tariff associated with this Rider, and
 - b) The installed capacity (AC) of customer's Solar Photovoltaic generation.
2. Company will install, own, and maintain the metering to measure the electric power and energy supplied by customer generation to allow for proper billing of the customer under this Rider. If, as a result of the customer's construction and installation of their generating facility, it is more practical for the customer to install some or all of the metering equipment required, the customer may be permitted to do so, subject to Company's approval of such equipment.

Date Filed: 44-02-1205-19-16 By: David M. Sparby/Christopher B. Clark Effective Date: 12-01-13
President, ~~and CEO~~ of Northern States Power Company, a Minnesota corporation
Docket No. E002/GR-12-961M-13-315 & Order Date: 09-03-13
E999/CI-15-115

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

~~COMPETITIVE MARKET RIDER-~~
~~(Continued)~~ PHOTOVOLTAIC DEMAND CREDIT RIDER
RATE CODE A85 (CLOSED)
RATE CODE A86

Section No. 5
~~3rd~~4th Revised Sheet No. 125

3. Company reserves the right to limit availability of this Rider to customer situations where the Solar Photovoltaic generation used by customer does not significantly affect the monthly peak demand of customer.
4. For Solar Photovoltaic generation, this Rider supersedes other Standby Service tariff provisions.

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E999/CI-15-115

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

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(Continued on Sheet No. 1-4)

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

**RATE SCHEDULES
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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STANDBY SERVICE RIDER

Section No. 5
 18th Revised Sheet No. 101

AVAILABILITY

Applicable to customers that use a customer-sited generation source with a capacity greater than 100 kW to serve a defined portion of the customer's total electric energy requirements and where customer chooses to use the Company's electric service to serve that defined load when the customer-sited generation is either partly or wholly unavailable. Customer must select one of the following services types: Firm Unscheduled Maintenance, Firm Scheduled Maintenance, or Non-Firm service. This Rider is not available to solar photovoltaic generation systems and is closed to new wind generation systems.

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Under this tariff the Company will provide Standby Service in accordance with the provisions of this tariff as well as those of Section 2.4 of the General Rules and Regulations.

RATE

	<u>Firm Standby</u>		<u>Non-Firm</u>
	<u>Unscheduled</u>	<u>Scheduled</u>	<u>Standby</u>
	<u>Maintenance</u>	<u>Maintenance</u>	
Customer Charge per Month	\$25.64	\$25.64	\$25.64
Reservation Demand Charge per Month per kW of Contracted Standby Capacity			
Secondary Voltage Service	\$3.08	\$2.98	\$2.35
Primary Voltage Service	\$2.28	\$2.18	\$1.55
Transmission Transformed Voltage Service	\$1.53	\$1.43	\$0.80
Transmission Voltage Service	\$0.73	\$0.63	\$0.00
<u>Peak Period Standby Energy Surcharge per kWh</u>			
June – September		\$0.06545	
Other Months		\$0.04242	

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Energy Charge per kWh. All energy used under this Rider will be charged at the applicable energy rate of the base tariff to which this Rider is attached and is not applicable to the base tariff Energy Charge Credit.

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STANDBY ENERGY USAGE

Standby energy usage occurs when the customer-sited generation source output in kW is less than contracted standby kW capacity. Standby energy usage in kWh is measured in 15-minute intervals and is defined as the kWh energy associated with constant operation of customer-sited generation at the contract standby kW capacity level less actual energy production of customer-sited generation, but not less than zero kWh for each 15-minute interval. Actual energy production of customer-sited generation will be measured by Company-owned and installed production metering equipment.

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(Continued on Sheet No. 5-101.1)

STANDBY SERVICE RIDER (Continued)

Section No. 5
Original Sheet No. 101.1

PEAK PERIOD STANDBY ENERGY USAGE

Peak period standby energy usage is the amount of Standby Energy Usage occurring during the peak period that does not occur during a qualifying scheduled maintenance period or is associated with Non-Firm service. Peak period standby energy usage is subject to the Peak Period Standby Energy Surcharge.

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DEFINITION OF PEAK PERIOD

Peak period hours are the six hours between 1:00 p.m. and 7 p.m. for all days.

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In addition, customer bills under this rate are subject to the following adjustments and/or charges.

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FUEL CLAUSE

Bills are subject to the adjustments provided for in the Fuel Clause Rider.

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RESOURCE ADJUSTMENT

Bills are subject to the adjustments provided for in the Conservation Improvement Program Adjustment Rider, the State Energy Policy Rate Rider, the Renewable Development Fund Rider, the Transmission Cost Recovery Rider, the Renewable Energy Standard Rider and the Mercury Cost Recovery Rider.

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ENVIRONMENTAL IMPROVEMENT RIDER

Bills are subject to the adjustments provided for in the Environmental Improvement Rider.

SURCHARGE

In certain communities, bills are subject to surcharges provided for in a Surcharge Rider.

LOW INCOME ENERGY DISCOUNT RIDER

Bills are subject to the adjustment provided for in the Low Income Energy Discount Rider.

In addition, customer bills under this rate are subject to the following adjustments and/or charges.

LATE PAYMENT CHARGE

Any unpaid balance over \$10.00 is subject to a 1.5% late payment charge or \$1.00, whichever is greater, after the date due. The charge may be assessed as provided for in the General Rules and Regulations, Section 3.5.

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(Continued on Sheet No. 5-102)

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STANDBY SERVICE RIDER (Continued)

Section No. 5
14th Revised Sheet No. 102

DETERMINATION OF DEMAND

The billing demand in kW for application to the Standby Service Reservation Demand Charge rate will be the contracted Standby capacity specified in the customer's Electric Service Agreement, which is the maximum capacity of Standby Service the Company is obligated to supply, and is the amount of load expected to be served by the customer-sited generation source. In no case shall the contracted Standby capacity be established at more than the capacity of the customer-sited generation source. Contracted Standby capacity may be different for the summer and winter seasons or by month.

The metered capacity in kW supplied by Company for Standby Energy Usage by customer will be excluded from the actual demand in kW used to determine any billed demand for the base tariff to which this Rider is attached. This exclusion is determined as the maximum total customer demand, defined as the total of capacity supplied by the customer-sited generation source and the Company measured in 15-minute intervals, less contracted Standby capacity. All demand measurements will be determined with Company owned and installed meters. The exclusion of capacity supplied by Company for Standby Energy Usage by customer from any base tariff determination of demand calculation is represented by the equation: Base tariff actual demand in kW = Site load (Company supplied capacity in kW measured by the base tariff service meter + Customer supplied capacity in kW measured by production metering of customer-sited generation) – Contracted Standby capacity in kW as determined by the customer nomination in effect for the applicable billing period.

Any billing demand in kW for the base tariff to which this Rider is attached will be calculated using the applicable determination of demand provision defined in the base tariff. For a time of day base tariff, the on-peak and off-peak periods used for billed demand calculations will be based on the definition of peak periods included in the time of day base tariff.

TERMS AND CONDITIONS OF SERVICE

1. Standby Service Rider is applicable to any customer who requires greater than 100 kW of Standby capacity. Standby Service may not be used by a customer to serve controllable demand that is subject to interruption as determined by the Company under the Company's controllable service schedules.

(Continued on Sheet No. 5-103)

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MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STANDBY SERVICE RIDER (Continued)

Section No. 5
7th Revised Sheet No. 103

TERMS AND CONDITIONS OF SERVICE (Continued)

2. Customer will execute an Electric Service Agreement with the Company which will specify:
 - a. Type of Standby Service elected by the customer and the base tariff to which this Rider is attached.
 - b. The total Standby capacity requirements for which Company will be providing Standby power and to which the Standby Service reservation rate applies as well as the expected level of standard service the customer will take, even if the standard service level is expected to be zero.
 - c. The process and requirements for nominating contracted Standby capacity, including seasonal or monthly levels.
3. The Company's standard service meter will be detented to measure only the amount of capacity and energy provided by the Company to the customer.
4. Company will not be obligated to supply Standby Service to back-up a customer's generator at a level in excess of the Standby capacity for which customer has contracted. This restriction in no way limits the amount of standard service the customer requires from the Company under the standard service tariff to which this Rider is attached. Any limits on standard service are governed by the provisions contained in the standard service tariffs.
5. Customer will be liable for all damages allowed by law to the extent caused by customer's use of Standby power in excess of contracted Standby capacity.
6. Company will require customer to revise the Electric Service Agreement to contract for additional Standby capacity if the customer exceeds the contract amount in any three of the preceding 12 months.
7. Customer will annually furnish documentation to Company confirming the maximum capacity and reliability of the power source for which customer requires Standby Service. The Company and the customer will review the actual output and performance of the power source relative to the capacity nominated for Standby Service in the Electric Service Agreement. If this review shows a significant and consistent shortfall between the power source's actual performance and the nominated capacity due to factors reasonably within the customer's control, the Company will notify the customer of its intent to refuse to provide Standby Service. Upon receipt of such notice, the customer may agree to reduce the Standby Service nomination in its Electric Service Agreement or to take such action as necessary to operate the power source at or reasonably near the nominated Standby Service capacity. If the customer's power source does not operate at or reasonably near that level during the 12 months immediately following the Company's notice, the Company may refuse to provide Standby Service until such time as the customer agrees to reduce its Standby Service nomination or provide the Company with documentation demonstrating the power source's actual performance at or reasonably near the nominated Standby Service capacity for a trial period of three consecutive months.
8. Customer will remain on Standby Service for a period of not less than 12 months.

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(Continued on Sheet No. 5-104)

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

STANDBY SERVICE RIDER (Continued)

Section No. 5
8th Revised Sheet No. 104

TERMS AND CONDITIONS OF SERVICE (Continued)

9. In the event Company provides advance notice to customer of expected system peak load conditions for a specified time period and customer uses unscheduled standby backup demand during that time period, the backup demand quantity used will be billed at the firm service demand charge from the base tariff to which this Rider is attached instead of the Reservation Demand charge. The quantity of unscheduled standby backup demand used for this provision will be the maximum 15-minute measured interval of unscheduled standby backup demand used during the specified system peak hours, measured as contracted standby capacity less the capacity provided by the customer-sited generation source. Company notice of expected system peak load conditions for this provision will be provided through the same means Company uses to notify interruptible customers of an interruption requirement. N
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10. Company will install and charge customer for the additional metering necessary, to allow for determining Peak Period Standby Energy usage. In particular, the Company will install a separate meter that measures the flow of power and energy from the customer's own generating facility. Customer shall reimburse the Company for the costs of installing, operating, and maintaining the required additional metering and for any other facilities required to serve the customer's Standby load. If, as a result of the customer's construction and installation of their generating facility, it is more practical for the customer to install some or all of the metering equipment required, the customer may be permitted to do so, subject to Company's approval of such equipment. LC
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(Continued on Sheet No. 5-105)

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STANDBY SERVICE RIDER (Continued)

Section No. 5
8th Revised Sheet No. 105

ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION

1. The optional Scheduled Maintenance rates are available to Standby Service customers who agree to schedule maintenance of their power source during qualifying scheduled maintenance periods.
2. Qualifying Scheduled Maintenance Periods

Maintenance may occur within the calendar months of April, May, October, and November without written customer notice to Company prior to the beginning of the maintenance period regardless of the size of the contracted Standby capacity.

In other months for customers with a base time of day tariff to which this Rider is attached, regardless of the size of the contracted Standby capacity, scheduled maintenance may occur, with Company approval, during weekends and holidays as identified in the time of day base tariff, where a documented customer request is provided no less than 48 hours prior to the beginning of the planned maintenance period. Company will endeavor to approve or deny the customer request within 24 hours of receiving the request.

For months other than April, May, October, and November, customers with a minimum contracted Standby capacity of 1,000 kW may schedule maintenance at a time period mutually agreed to by Company and customer, following a documented customer request. These time periods for scheduled maintenance will normally not include those times when Company expects high system seasonal peak load conditions or high energy production costs.

Customer shall provide an annual projection of scheduled maintenance to the Company. Customer shall be allowed changes or additions to this projection upon notice to the Company based on the following schedule:

<u>Outage Length</u>	<u>Required Notice</u>
Less than 72 hours	24 hours
3 days to 30 days	7 days
Over 30 days	90 days

3. The duration of qualifying scheduled maintenance periods may not exceed a total of 56 days in any 12 month period.

(Continued on Sheet No. 5-106)

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MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

STANDBY SERVICE RIDER (Continued)

Section No. 5
8th Revised Sheet No. 106

ADDITIONAL TERMS AND CONDITIONS OF SERVICE ASSOCIATED WITH THE SCHEDULED MAINTENANCE OPTION (Continued)

4. If customer does not comply with all terms and conditions for qualifying scheduled maintenance periods during any billing month, all use of Standby Service for the same month will be subject to the Peak Period Standby Energy charge provision. Company may determine partial non-compliance and limit the quantity of Standby Service usage subject to the Peak Period Standby Energy charge provision. Company reserves the right to remove availability of the Scheduled Maintenance Option for any customer upon a determination of significant and multiple occurrences of failure to comply with all associated terms and conditions.

5. The use of Standby Service during qualifying scheduled maintenance periods will not be included in the determination of Peak Period Standby Energy usage.

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(Continued on Sheet No. 5-107)

Date Filed:	05-19-16	By: Christopher B. Clark	Effective Date:
		President, Northern States Power Company, a Minnesota corporation	
Docket No.	E002/M-13-315 & E999/CI-15-115		Order Date:

MINNESOTA ELECTRIC RATE BOOK – MPUC NO. 2

**PHOTOVOLTAIC DEMAND CREDIT RIDER
RATE CODE A85 (CLOSED)
RATE CODE A86**

Section No. 5
4th Revised Sheet No. 125

AVAILABILITY – GENERAL

Applicable by customer request to demand-metered commercial and industrial customers that use Solar Photovoltaic as a customer-sited generation source with a capacity greater than 40 kW (AC) with a single production meter to serve all or a portion of customer's electric energy requirements. Not available to customer-sited generation that is the subject of another incentive program such as Solar*Rewards.

AVAILABILITY – CLOSED RATE

Availability of the closed rate is limited to qualifying customer account locations that: 1) are receiving Standby Service Rider tariff service with the Photovoltaic Solar Credit on the date this Rider is originally approved by the Commission, or 2) have enrolled for the Rider before the date the credit rate in this Rider is revised by the Commission. The closed rate will remain fixed for a six year period beginning with the original Commission order date approving this Rider, expiring _____, 2024. After expiration of the closed rate, the applicable standard rate will replace the closed rate.

The standard rate will apply to customer account locations that do not qualify for the closed rate. The standard rate may be revised at any time subject to approval by the Commission.

RATE

Customer Charge per Month \$25.75

Credit per kWh of Peak Period Solar Photovoltaic Generation (A85 - Closed) \$0.07139
Credit per kWh of Peak Period Solar Photovoltaic Generation (A86 - Standard) \$0.07139

CREDIT KWH LIMIT

The maximum kWh applied to the Rider credit per kWh each billing period is the Peak Period maximum 15-minute Solar Photovoltaic kW output for the billing period times 100 hours for billing periods ending in the months of June, July, August or September and 75 hours for billing periods ending in other months.

CREDIT LIMIT

The maximum credit for each billing period is the applicable standard or on-peak billed demand charge from the base tariff associated with this Rider. For Peak-Controlled Service and Peak-Controlled Time of Day Service customers, the maximum credit for each billing period is the billed demand charge for Firm Demand.

DEFINITION OF PEAK PERIOD

Peak period hours are the six hours between 1:00 p.m. and 7 p.m. for all days.

TERMS AND CONDITIONS OF SERVICE

1. Customer will execute an Electric Service Agreement with the Company that will specify:
 - a) The base tariff associated with this Rider, and
 - b) The installed capacity (AC) of customer's Solar Photovoltaic generation.
2. Company will install, own, and maintain the metering to measure the electric power and energy supplied by customer generation to allow for proper billing of the customer under this Rider. If, as a result of the customer's construction and installation of their generating facility, it is more practical for the customer to install some or all of the metering equipment required, the customer may be permitted to do so, subject to Company's approval of such equipment.
3. Company reserves the right to limit availability of this Rider to customer situations where the Solar Photovoltaic generation used by customer does not significantly affect the monthly peak demand of customer.
4. For Solar Photovoltaic generation, this Rider supersedes other Standby Service tariff provisions.

Date Filed: 05-19-16

By: Christopher B. Clark

Effective Date:

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/M-13-315 & E999/CI-15-115

Order Date:

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CERTIFICATE OF SERVICE

I, Lynnette Sweet, 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 No. E999/CI-15-115

Dated this 20th day of March 2018

/s/

Lynnette Sweet
Regulatory Administrator

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