



November 21, 2018

—Via Electronic Filing—

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

RE: PETITION

LIGHTING TARIFF REVISIONS TO INCLUDE LED OPTIONS

DOCKET NO. E002/M-18-\_\_\_

Dear Mr. Wolf:

Northern States Power Company, doing business as Xcel Energy, submits the attached Petition for approval of several revisions to accommodate additional offerings of Light Emitting Diode (LED) lighting technology for street lighting and protective lighting applications and to close the Street Lighting Service – City of St. Paul tariff.

We have electronically filed this document with the Minnesota Public Utilities Commission, and a summary of the filing has been served on all parties on the Company's miscellaneous electric service list.

Please contact Rebecca Eilers at <u>rebecca.d.eilers@xcelenergy.com</u> or 612-330-5570, or me at <u>lisa.r.peterson@xcelenergy.com</u> or 612-330-7681 if you have any questions regarding this filing.

Sincerely,

/s/

LISA PETERSON MANAGER, REGULATORY ANALYSIS

Enclosures c: Service List

# STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Nancy Lange Chair
Dan Lipschultz Commissioner
Matthew Schuerger Commissioner
Katie Sieben Commissioner
John Tuma Commissioner

IN THE MATTER OF A PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF REVISIONS TO LIGHTING TARIFFS TO INCLUDE LIGHT EMITTING DIODE (LED) OPTIONS DOCKET NO. E002/M-18-\_\_\_

**PETITION** 

### INTRODUCTION

Northern States Power Company, doing business as Xcel Energy, submits to the Minnesota Public Utilities Commission this Petition for approval of tariff revisions to accommodate additional offerings of Light Emitting Diode (LED) lighting technology for street lighting and protective lighting applications and to close the Street Lighting Service – City of St. Paul tariff.

The Commission's April 8, 2016 Order in Docket No. E002/M-15-920 approved new full service LED street lighting rates designed to reduce bills, decrease maintenance and other expenses, improve energy efficiency, contribute to energy usage and greenhouse gas emissions reduction goals, and improve lighting quality.

We have identified additional LED options for energy-only street lighting service to lighting systems owned by customers and for protective lighting service that could further these same goals. These new offerings are proposed as revisions to the Automatic Protective Lighting Service tariff and Street Lighting Energy Service (Closed) tariff.

Our proposed tariff revisions respond to customer interest in additional LED lighting options and increased energy efficiency. LED technologies have advanced to provide cost reductions and improved performance, light quality and color rendering which will benefit our customers. Our proposed tariff revisions will help customers transition to more energy-efficient lighting options and provide cost savings.

We respectfully request that the Commission approve the Company's proposed tariff revisions described in more detail below. This Petition provides background on the current LED rates and a description of the proposed tariff revisions and rate design.

## I. SUMMARY OF FILING

A one-paragraph summary of the filing is attached 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, we have electronically filed this document. A summary of the filing has been served on all parties on the Company's miscellaneous electric service list.

## III. GENERAL FILING INFORMATION

Pursuant to Minn. Rules 7825.1400 and 7829.1300, subp. 3, the Company provides the following required 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

James R. Denniston Assistant General Counsel Xcel Energy 414 Nicollet Mall, 401 – 8<sup>th</sup> Floor Minneapolis, MN 55401 (612) 215-4656

# C. Date of Filing

The date of this filing is November 21, 2018. The Company requests these tariff updates become effective 60 days after the Commission Order is issued.

# D. Statute Controlling Schedule for Processing the Filing

This Petition is made pursuant to 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.

Under Commission Rules, the proposed rate change discussed in this Petition falls within the definition of a "miscellaneous filing" under Minn. Rule 7829.0100, subp. 11, since no determination of Xcel Energy's general 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 from the expiration of the original comment period. This permits the Commission to act within the 60-day notice period.

# E. Utility Employee Responsible for Filing

Lisa Peterson Manager, Regulatory Analysis Xcel Energy 414 Nicollet Mall, 401 – 7<sup>th</sup> Floor Minneapolis, MN 55401 (612) 330-7681

## 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:

James R. Denniston

Assistant General Counsel

Xcel Energy

414 Nicollet Mall, 401 – 8<sup>th</sup> Floor

Minneapolis, MN 55401

james.r.denniston@xcelenergy.com

Lynnette Sweet

Regulatory Administrator

Xcel Energy

414 Nicollet Mall, 401 – 7<sup>th</sup> Floor

Minneapolis, MN 55401

regulatory.records@xcelenergy.com

## V. EFFECT OF CHANGE UPON XCEL ENERGY REVENUE

We do not anticipate a significant change in revenue as a result of these tariff revisions.

## VI. DESCRIPTION AND PURPOSE OF FILING

# A. Background

The Commission's April 8, 2016 Order in Docket No. E002/M-15-920 approved LED rates for the full service Street Lighting System Service tariff as a conversion path to replace older lighting technologies. This new lighting option was designed to reduce bills, decrease maintenance and other expenses, improve energy efficiency, contribute to energy usage and greenhouse gas emissions reduction goals, and improve lighting quality.

We have identified additional LED options for protective lighting service and for the closed energy-only street lighting service to lighting systems owned by customers that could further these same goals. While the closed tariff is not consistent with our requirements to meter new lighting systems, the Company supports allowing an LED option for customers currently on the rate, so that the customers can take advantage of the lower fuel costs associated with LED.

These new LED options are proposed as revisions to the Automatic Protective Lighting Service tariff and the Street Lighting Energy Service (Closed) tariff. These lighting services are currently:

# • Automatic Protective Lighting Service (Rate Code A07)

The Company provides lighting equipment, maintenance and energy at flat monthly rates for area and directional lighting with High Pressure Sodium (HPS) and Mercury Vapor (MV) lamps at different wattage levels. Customers are also billed the applicable fuel cost rate for lighting energy usage.

# • Street Lighting Energy Service (Closed) (Rate Code A32)

The Company provides energy-only service at a flat monthly rate for HPS and MV lamps at different wattage levels. The customer owns a Company-approved street lighting system. Customers are also billed the applicable fuel cost rate for lighting energy usage.

# B. Proposed Revision to Automatic Protective Lighting Service

We propose to add LED rate options comparable to the existing lamps in the Area Units section of Automatic Protective Lighting (APL) Service as shown on Attachment A. The LED wattages comparable to HPS lighting for APL service are shown in Table 1 below and are based on the specific LED fixtures the Company expects to provide for this service. These LED wattages are proposed to be represented by a range of LED wattages to accommodate future standardization of

available LED wattages. The LED wattage levels for APL are slightly different from those for the Company's previously approved LED street lighting tariffs to recognize the different type of equipment used for protective lighting.

Table 1
Comparable HPS and LED Wattages

HPS Wattage	LED Wattage	LED Tariff Range
100W	43W	30-45W
250W	157W	110-165W

Consistent with current practice for APL lamp and fixture replacements and to minimize incremental labor costs for conversions, LED fixtures will be installed after the failure of current HPS and MV lamps in service. We currently provide service to approximately 20,000 APL Area Units in Minnesota and anticipate a complete replacement with LED lighting over the next several years. Although this conversion approach may not produce significant short-term maintenance cost savings, it will reduce future maintenance costs after LED fixtures are installed, by removing the need to replace malfunctioning ballasts or broken glass lamp coverings that are common maintenance requirements for HPS and MV lighting fixtures. This cost reduction is included in proposed LED rates as an expense savings of \$0.53 per month based on the Company's assumption for existing Street Lighting System Service LED fixtures, recognizing similarities in the HPS fixtures being replaced and LED fixtures being installed.

The base rate system allocation reductions shown in Table 2 below are the result of the reduction in energy and demand usage when HPS fixtures are replaced with LEDs, which reduces the allocation of system resources required for lighting. This results in a credit to each proposed LED APL monthly rate. Also recognized in the proposed rates, since the LED fixtures will replace current fixtures prior to the end of their useful life, is the revenue requirement for the required incremental capital investment. This higher revenue requirement associated with the capital cost offsets a portion of the energy and maintenance savings. The result is a slight decrease in the monthly rate and results in an overall bill savings of 7-12% when combined with fuel savings. The anticipated rate impact and bill impact estimates are outlined in Table 2.

These adjustments are consistent with our approach in the initial LED streetlight rates approved in Docket No. E002/M-15-920. Attachment B includes the workpapers for the LED Automatic Protective Lighting Service rates. These workpapers provide a summary of the adjustment a more detailed breakout of the saving components.

Table 2
LED Area Protective Lighting Rate Design

#### NSP-MN

Per HPS/LED Street Light Equivalent

\$8.02

7.4%

\$13.00

12.1%

RATE IMPACT	100W/43W	250W/157W
2019 HPS Automatic Protective Lighting Service Prices <sup>1</sup>	\$7.71	\$12.30
Maintenance Savings	(\$0.53)	(\$0.53)
System Allocation Cost Reduction	(\$0.83)	(\$1.68)
Incremental Capital Revenue Requirement	\$1.32	\$1.63
LED Fixture Rate Impact - Company Owned Street Lights	(\$0.04)	(\$0.58)
Proposed LED Automatic Protective Lighting Service Prices	\$7.67	\$11.72
Proposed LED Automatic Protective Lighting Service Prices  BILL IMPACT (Estimated)	\$7.67 100W/43W	\$11.72 250W/157W
		·
BILL IMPACT (Estimated)	100W/43W	250W/157W
BILL IMPACT (Estimated)  Current HPS Monthly Average Bill Per Street Light - APL	100W/43W \$8.66	250W/157W \$14.80

Proposed LED Monthly Average Bill Per Street Light - APL

Percentage Savings (increase)

Finally, the lower energy usage of the LED fixtures, in addition to yielding some base rate energy savings for customers as described above results in a reduction in the Fuel Clause charge cost. Since fuel is a separate line on the customer's bill, this impact is not included in the monthly rate, but customers will see the saving reflected in the fuel clause cost line of their bill. The estimated Fuel Clause charge saving is also illustrated in Attachment B in the Fuel & Resource Adjustment Savings Estimate lines of the workpapers. All benefits included, a customer receiving a new 100W equivalent LED fixture will see a monthly savings of \$0.64 or 7.4% relative to the current HPS 100W bill. The LED bill savings for the Automatic Protective Lighting Service are more favorable than Company's roadway lighting program due to a relatively lower fixture cost associated with this type of LED lighting fixture.

# C. Proposed Revision to Street Lighting Energy Service (Closed)

We also propose to add LED rates to the Street Lighting Energy Service (Closed) tariff, shown on Attachment A. Although this tariff is closed to new fixtures, the proposed rates will allow customers to upgrade existing HPS and MV fixtures already

<sup>1</sup> Automatic Protective Lighting Service Rates proposed to be effective January 1, 2019 as filed in Docket No. E002/GR-15-826

served on this tariff to LED fixtures. Street Lighting Energy Service – Metered will continue to be required for new customer-owned lighting systems.

Customers have expressed an interest in acquiring the light quality and cost saving advantages of LED lighting, without waiting until they can phase in meters and switch over to metered energy-only lighting service. LED availability under customers' current flat rate lighting service will provide a reasonable transition path to metered service.

Five LED base rates based on wattage ranges are proposed, which is consistent with the current Street Lighting System Service tariff. The proposed LED rates are the same as the corresponding HPS rates to allow an even billing and revenue recovery transition from the existing HPS lighting units that represent 90 percent of current lights on the tariff.

Customers using the LED option will have reduced fuel cost charges from the lower LED energy usage, even though the proposed tariff revision does not address the base rate level. Since the rate is closed, additional analysis is required for the non-fuel portion of the rate. The Company intends to revisit the base rate level for the closed service at the time of its next rate case.

Table 3
LED Street Lighting Energy Service Bill Savings

	<30W	30-45W	50-75W	110-165W	200-250W
Estimated Annual					
Bill Savings	\$5.47	\$7.65	\$10.30	\$14.88	\$23.23

# D. Proposed Revision to Street Lighting Service – City of St. Paul

This Petition also proposes to close the Street Lighting Service – City of St. Paul tariff to new lighting units. Available only to the City of St. Paul, this tariff is a hybrid of lighting services that provides for shared ownership and maintenance. This lighting service arrangement provides for the City to own and maintain the lamp units, lamps, photocells and glassware, and for the Company to own and maintain the distribution system and fixture hangers, and to furnish energy. The tariff was established over 40 years ago and is inconsistent with other lighting services and a statewide tariff approach. Closing this tariff would allow an orderly transition to other lighting services. The City has reduced the number of lighting units on this tariff over the last ten years from about 2400 lighting units to under 1700 lighting units. This proposal would retain the tariff and its availability to existing lighting applications, but

discontinue its availability to new lighting fixtures. This approach also provides a transition path to LED lighting through other available lighting services.

# E. Street Lighting System Service

In this Petition, the Company also provides notice that LED lighting options for Street Lighting System Service are planned for expansion to post-top fixtures, in addition to the more common application to the cobra head fixture design. The tariff does not include a rate distinction for these two types of fixtures, which have been available for HPS lamps.

# F. Legal Standard of Review

The legal standard of review for this Petition is found in Minn. Stat. § 216B.03, which states that "every rate made, demanded, or received by any public utility, or by any two or more public utilities jointly, shall be just and reasonable." We believe that our Petition has met that standard. The proposed tariff modifications incorporate the maintenance and other expense-allocated cost savings and could result in overall customer cost-savings. The rates proposed are just and reasonable, satisfying the statutory requirements.

# G. Proposed Tariff Sheets

The Company proposes to make permanent the additional LED lighting options discussed in this Petition. Redline and clean versions of the following tariff sheets show the proposed modifications, included as Attachment A:

- Section 5, 22<sup>nd</sup> Revised Sheet No. 14 (A07 rate code)
- Section 5, 23<sup>rd</sup> Revised Sheet No. 76 (A32 rate code)
- Section 5, 26<sup>th</sup> Revised Sheet No. 80 (A37 rate code)
- Section 5, 15<sup>h</sup> Revised Sheet No. 81 (A37 rate code)

# H. Implementation and Ongoing Operation

The Company proposes that the proposed tariff modifications become effective and available to customers 60 days after the Commission Order is issued.

## **CONCLUSION**

The Company respectfully requests that the Commission approve tariff revisions to accommodate additional offerings of Light Emitting Diode (LED) street lighting and protective lighting options, and our proposal to close the City of St. Paul lighting tariff

to new fixtures, as discussed in this Petition. These new lighting options respond to increasing customer interest in LED options.

Dated: November 21, 2018

Northern States Power Company

# STATE OF MINNESOTA BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

Nancy Lange Chair
Dan Lipschultz Commissioner
Matthew Schuerger Commissioner
Katie Sieben Commissioner
John Tuma Commissioner

IN THE MATTER OF A PETITION OF NORTHERN STATES POWER COMPANY FOR APPROVAL OF REVISIONS TO LIGHTING TARIFFS TO INCLUDE LIGHT EMITTING DIODE (LED) OPTIONS DOCKET NO. E002/M-18-\_\_\_

**PETITION** 

## **SUMMARY OF FILING**

Please take notice that on November 21, 2018, Northern States Power Company, doing business as Xcel Energy, filed with the Minnesota Public Utilities Commission a Petition for approval of tariff revisions to accommodate additional offerings of Light Emitting Diode (LED) lighting technology for street lighting and protective lighting applications and to close the Street Lighting Service – City of St. Paul tariff.

Docket No. E002/M-18-\_\_\_ Petition Attachment A

# Redline

# AUTOMATIC PROTECTIVE LIGHTING SERVICE Section No. 5 RATE CODE A07 Section No. 14

#### **AVAILABILITY**

Available to all types of customers except for municipal street lighting purposes.

#### **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

### **RATE**

Designation of Lamp (Lumens)	Monthly Rate Per Unit	<u>N</u>
Area Units		
100W High Pressure Sodium	\$7.57	R
175W Mercury (1)	\$7.57	R
250W High Pressure Sodium	\$12.07	R
400W Mercury (1)	\$12.07	R
30-45W Light Emitting Diode (4,000)	<u>\$7.67</u>	<u>N</u>
110-165W Light Emitting Diode (14,000)	<u>\$11.72</u>	<u>N</u>
Directional Units		
250W High Pressure Sodium	\$14.37	R
400W High Pressure Sodium	\$17.98	R
1,000W Mercury (1)	\$27.82	R

<sup>(1)</sup> Available to existing installations only.

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

## **SERVICE INCLUDED IN RATE**

Company shall own, operate, and maintain the lighting unit including the fixture, lamp, ballast, photoelectric control, mounting brackets, and all necessary wiring. Company shall furnish all electric energy required for operation of the unit.

#### **FUEL CLAUSE**

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

(Continued on Sheet No. 5-15)

Date Filed: 41-02-1511-21-18 By: Christopher B. Clark Effective Date: 40-01-17

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/<del>GR 15-826M-18-</del> Order Date: <del>06-12-17</del>

#### STREET LIGHTING ENERGY SERVICE (CLOSED) Section No. 5 **RATE CODE A32** 22nd23rd Revised Sheet No.

76

#### **AVAILABILITY**

Available for year-round illumination of public streets, parkways, and highways by electric lamps mounted on standards where customer owns a Company approved ornamental street lighting system complete with standards, luminaires with globes, lamps, and other appurtenances, together with all necessary cables extending between standards and to point of connection to Company's facilities as designated by Company. Service is limited to existing lighting systems being served under this schedule.

## **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

#### **RATE**

-			
	Designation of Lamp (Lumens)	Monthly Rate per Luminaire	N
	100W Mercury	\$2.47	—— R
	175W Mercury	\$3.68	
	250W Mercury	\$4.99	
	400W Mercury	\$7.77	
	700W Mercury	\$12.92	
	1,000W Mercury	\$17.98	
	50W High Pressure Sodium	\$1.38	
	70W High Pressure Sodium	\$1.74	
	100W High Pressure Sodium	\$2.32	
	150W High Pressure Sodium	\$3.17	
	200W High Pressure Sodium	\$4.22	
	250W High Pressure Sodium	\$5.34	
	400W High Pressure Sodium	\$8.12	
	750W High Pressure Sodium	\$13.94	R
ı	F72HO Fluorescent	\$3.61	
	00W Link Enristing Dinds (0.500)	<b>C4</b> 74	
	<30W Light Emitting Diode (2,500)	<u>\$1.74</u>	Ð <u>N</u>
	30-45W Light Emitting Diode (4,000)	<u>\$2.32</u>	_ <u>N</u>
	50-75W Light Emitting Diode (6,000)	<u>\$3.17</u>	_ <u>N</u>
	110-165W Light Emitting Diode (14,000)	<u>\$5.34</u>	_ <u>N</u>
	200-250W Light Emitting Diode (25,000)	<u>\$8.12</u>	<u>N</u>

### (Continued on Sheet No. 5-77)

Date Filed:	<del>11-02-15</del> 11-21-18	By: Christopher B. Clark	Effective Date:	<del>10-01-17</del>

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/<del>GR-15-826</del><u>M-18-</u> Order Date: 06 - 12 - 17

#### MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

# STREET LIGHTING SERVICE - CITY OF ST. PAUL (CLOSED) Section No. 5 (CLOSED) Section No. 80

**RATE CODE A37** 

#### **AVAILABILITY**

Available to the City of St. Paul for furnishing, maintaining, and operating certain electrical connections, lines, and appurtenances thereto, and supplying electric current for city street lighting.

#### **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

#### **RATE**

Designation of Lamp	Monthly Rate per Luminaire	
100W High Pressure Sodium	\$5.70	Į.
150W High Pressure Sodium	\$6.39	Į.
250W High Pressure Sodium	\$8.95	F

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

#### **FUEL CLAUSE**

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

## 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.

The following are terms and conditions for service under this tariff.

#### 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.

(Continued on Sheet No. 5-81)

Date Filed: 41-02-1511-21-18 By: Christopher B. Clark Effective Date: 10-01-17

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/<del>GR-15-826M-18-</del> Order Date: <del>06-12-17</del>

Northern States Power Company, a Minnesota corporation Minneapolis, Minnesota 55401

## MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STREET LIGHTING SERVICE - CITY OF ST. PAUL\_ (CLOSED)

**RATE CODE A37** 

Section No. 5

14th 15th Revised Sheet No. 81

## **OTHER PROVISIONS**

This schedule is also subject to provisions contained in Rules for Application of Street Lighting Rates.

Date Filed: 11-02-1511-21-18 By: Christopher B. Clark Effective Date: 10-01-17

President, Northern States Power Company, a Minnesota corporation

Docket No. E002/<del>GR-15-826</del><u>M-18-</u> Order Date: <del>06-12-17</del>



# AUTOMATIC PROTECTIVE LIGHTING SERVICE Section No. 5 RATE CODE A07 22nd Revised Sheet No. 14

#### **AVAILABILITY**

Available to all types of customers except for municipal street lighting purposes.

#### **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

### **RATE**

Designation of Lamp	(Lumens)	Monthly Rate Per Unit	N
Area Units			
100W High Pressure S	odium	\$7.57	
175W Mercury (1)		\$7.57	
250W High Pressure S	odium	\$12.07	
400W Mercury (1)		\$12.07	
30-45W Light Emitting Die	ode (4,000)	\$7.67	N
110-165W Light Emitting Die	ode (14,000)	\$11.72	N
Directional Units			
250W High Pressure S	odium	\$14.37	
400W High Pressure S	odium	\$17.98	
1,000W Mercury (1)		\$27.82	

<sup>(1)</sup> Available to existing installations only.

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

## **SERVICE INCLUDED IN RATE**

Company shall own, operate, and maintain the lighting unit including the fixture, lamp, ballast, photoelectric control, mounting brackets, and all necessary wiring. Company shall furnish all electric energy required for operation of the unit.

#### **FUEL CLAUSE**

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

(Continued on Sheet No. 5-15)

Date Filed: 11-21-18 By: Christopher B. Clark Effective Date:

President, Northern States Power Company, a Minnesota corporation

# STREET LIGHTING ENERGY SERVICE (CLOSED) RATE CODE A32

Section No. 5 23rd Revised Sheet No. 76

#### **AVAILABILITY**

Available for year-round illumination of public streets, parkways, and highways by electric lamps mounted on standards where customer owns a Company approved ornamental street lighting system complete with standards, luminaires with globes, lamps, and other appurtenances, together with all necessary cables extending between standards and to point of connection to Company's facilities as designated by Company. Service is limited to existing lighting systems being served under this schedule.

## **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

#### **RATE**

Designation of Lamp (Lumer	Monthly Rate per Luminaire	N
100W Mercury	\$2.47	
175W Mercury	\$3.68	
250W Mercury	\$4.99	
400W Mercury	\$7.77	
700W Mercury	\$12.92	
1,000W Mercury	\$17.98	
50W High Pressure Sodium	\$1.38	
70W High Pressure Sodium	\$1.74	
100W High Pressure Sodium	\$2.32	
150W High Pressure Sodium	\$3.17	
200W High Pressure Sodium	\$4.22	
250W High Pressure Sodium	\$5.34	
400W High Pressure Sodium	\$8.12	
750W High Pressure Sodium	\$13.94	
F72HO Fluorescent	\$3.61	
<30W Light Emitting Diode (2,500	0) \$1.74	N
30-45W Light Emitting Diode (4,00	0) \$2.32	N
50-75W Light Emitting Diode (6,00	0) \$3.17	N
110-165W Light Emitting Diode (14,00	00) \$5.34	N
200-250W Light Emitting Diode (25,00	00) \$8.12	N

(Continued on Sheet No. 5-77)

Date Filed: 11-21-18 By: Christopher B. Clark Effective Date:

President, Northern States Power Company, a Minnesota corporation

## MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STREET LIGHTING SERVICE - CITY OF ST. PAUL

(CLOSED)

RATE CODE A37

Section No. 5

26th Revised Sheet No. 80

#### **AVAILABILITY**

Available to the City of St. Paul for furnishing, maintaining, and operating certain electrical connections, lines, and appurtenances thereto, and supplying electric current for city street lighting.

#### **DETERMINATION OF CUSTOMER BILLS**

Customer bills shall reflect energy charges (if applicable) based on customer's kWh usage, plus a customer charge (if applicable), plus demand charges (if applicable) based on customer's kW billing demand as defined below. Bills may be subject to a minimum charge based on the monthly customer charge and / or certain monthly or annual demand charges. Bills also include applicable riders, adjustments, surcharges, voltage discounts, and energy credits. Details regarding the specific charges applicable to this service are listed below.

#### RATE

Designation of Lamp	Monthly Rate per Luminaire
100W High Pressure Sodium	\$5.70
150W High Pressure Sodium	\$6.39
250W High Pressure Sodium	\$8.95

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

#### **FUEL CLAUSE**

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

#### 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.

The following are terms and conditions for service under this tariff.

#### 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.

(Continued on Sheet No. 5-81)

Date Filed: 11-21-18 By: Christopher B. Clark Effective Date:

President, Northern States Power Company, a Minnesota corporation

Northern States Power Company, a Minnesota corporation Minneapolis, Minnesota 55401

## MINNESOTA ELECTRIC RATE BOOK - MPUC NO. 2

STREET LIGHTING SERVICE – CITY OF ST. PAUL (CLOSED)
RATE CODE A37

Section No. 5 15th Revised Sheet No. 81

## **OTHER PROVISIONS**

This schedule is also subject to provisions contained in Rules for Application of Street Lighting Rates.

Date Filed: 11-21-18 By: Christopher B. Clark Effective Date:

President, Northern States Power Company, a Minnesota corporation

# **Company-Owned LED Street Lighting System Service Rate Design**

Rate Code A07

Monthly LED Street Lighting Rate Design Summary	NSP-MN Per HPS/LED Street Light Equivalent		
	100W/43W	250W/157W	
2019 HPS Automatic Protective Lighting Service Rates (A07) 1	\$7.71	\$12.30	
Maintenance Expense Impact (Savings)	(\$0.53)	(\$0.53)	
System Allocation Cost Reduction	(\$0.83)	(\$1.68)	
Incremental Capital Revenue Requirement	\$1.32	\$1.63	
Net LED SL Fixture Rate Impact - Company Owned Street Lights	(\$0.04)	(\$0.58)	
Proposed Monthly LED Automatic Protective Lighting Service Rates	\$7.67	\$11.72	
Current HPS Monthly Average Bill Per Street Light - A07	\$8.66	\$14.80	
LED Fixture Impact on HPS Street Lighting Rate	(\$0.04)	(\$0.58)	
Fuel & Resource Adj. Savings Estimate	(\$0.60)	(\$1.22)	
Total Monthly Bill Impact (savings)	(\$0.64)	(\$1.80)	
Proposed LED Monthly Average Bill Per Street Light - A07	\$8.02	\$13.00	
Percentage Savings (increase)	7.4%	12.1%	

NSP-MN

#### **Annual Impact of LED Fixtures on the A30 Street Lighting System Service Rate** Per HPS/LED Street Light Equivalent

<b>.</b>		
	100W/43W	250W/157W
Maintenance Savings		
Relamp Expense Savings	\$0.00	\$0.00
Service Order Expense Savings	\$6.36	\$6.36
Total Maintenance Savings	\$6.36	\$6.36
Monthly Savings (increase)	\$0.53	\$0.53
System Allocation Cost Reduction		
Energy Related System Allocation Cost Reduction	\$8.89	\$18.00
Demand Related System Allocation Cost Reduction	\$1.05	\$2.13
Total System Allocation Cost Reduction	\$9.94	\$20.13
Monthly Savings (increase)	\$0.83	\$1.68
Incremental Capital Revenue Requirement	(\$15.78)	(\$19.61)
Monthly Savings (increase)	(\$1.32)	(\$1.63)
LED SL Base Rate Savings (Increase)	\$0.52	\$6.88
Monthly Savings (increase)	\$0.04	\$0.58
Fuel & Resource Adj. Savings Estimate	\$7.23	\$14.64
Monthly Savings (increase)	\$0.60	\$1.22
Annual Bill Savings - LED Street Lights	\$7.75	\$21.52
Monthly Savings (increase)	\$0.64	\$1.80

 $<sup>1\ \</sup> Automatic\ Protective\ Lighting\ Service\ Rates\ proposed\ to\ be\ effective\ January\ 1,\ 2019\ as\ filed\ in\ Docket\ No.\ E002/GR-15-826$ 

# **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.
  - <u>xx</u> by depositing a true and correct copy thereof, properly enveloped with postage paid in the United States mail at Minneapolis, Minnesota
  - xx electronic filing

# XCEL ENERGY MISCELLANEOUS ELECTRIC SERVICE LIST

Dated this 21st day of November 2018

/s/

Lynnette Sweet 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	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Christopher	Anderson	canderson@allete.com	Minnesota Power	30 W Superior St  Duluth,  MN  558022191	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Alison C	Archer	aarcher@misoenergy.org	MISO	2985 Ames Crossing Rd Eagan, MN 55121	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Ryan	Barlow	Ryan.Barlow@ag.state.mn. us	Office of the Attorney General-RUD	445 Minnesota Street Bremer Tower, Suite of St. Paul, Minnesota 55101	Electronic Service 400	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
James J.	Bertrand	james.bertrand@stinson.co m	Stinson Leonard Street LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
James	Canaday	james.canaday@ag.state. mn.us	Office of the Attorney General-RUD	Suite 1400 445 Minnesota St. St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Jeanne	Cochran	Jeanne.Cochran@state.mn .us	Office of Administrative Hearings	P.O. Box 64620 St. Paul, MN 55164-0620	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
John	Coffman	john@johncoffman.net	AARP	871 Tuxedo Blvd. St, Louis, MO 63119-2044	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Generic Notice	Commerce Attorneys	commerce.attorneys@ag.st ate.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1800 St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Riley	Conlin	riley.conlin@stoel.com	Stoel Rives LLP	33 S. 6th Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Corey	Conover	corey.conover@minneapoli smn.gov	Minneapolis City Attorney	350 S. Fifth Street City Hall, Room 210 Minneapolis, MN 554022453	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
George	Crocker	gwillc@nawo.org	North American Water Office	PO Box 174  Lake Elmo, MN 55042	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Joseph	Dammel	joseph.dammel@ag.state. mn.us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St. Paul, MN 55101-2131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
lan	Dobson	residential.utilities@ag.stat e.mn.us	Office of the Attorney General-RUD	1400 BRM Tower 445 Minnesota St St. Paul, MN 551012130	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
John	Farrell	jfarrell@ilsr.org	Institute for Local Self-Reliance	1313 5th St SE #303  Minneapolis, MN 55414	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Sharon	Ferguson	sharon.ferguson@state.mn .us	Department of Commerce	85 7th Place E Ste 280  Saint Paul, MN 551012198	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Edward	Garvey	edward.garvey@AESLcons ulting.com	AESL Consulting	32 Lawton St  Saint Paul, MN 55102-2617	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Janet	Gonzalez	Janet.gonzalez@state.mn. us	Public Utilities Commission	Suite 350 121 7th Place East St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Kimberly	Hellwig	kimberly.hellwig@stoel.co m	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Michael	Норре	il23@mtn.org	Local Union 23, I.B.E.W.	932 Payne Avenue St. Paul, MN 55130	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Alan	Jenkins	aj@jenkinsatlaw.com	Jenkins at Law	2265 Roswell Road Suite 100 Marietta, GA 30062	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Linda	Jensen	linda.s.jensen@ag.state.m n.us	Office of the Attorney General-DOC	1800 BRM Tower 445 Minnesota Street St. Paul, MN 551012134	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Richard	Johnson	Rick.Johnson@lawmoss.co m	Moss & Barnett	150 S. 5th Street Suite 1200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Sarah	Johnson Phillips	sarah.phillips@stoel.com	Stoel Rives LLP	33 South Sixth Street Suite 4200 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Mark J.	Kaufman	mkaufman@ibewlocal949.o rg	IBEW Local Union 949	12908 Nicollet Avenue South Burnsville, MN 55337	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Thomas	Koehler	TGK@IBEW160.org	Local Union #160, IBEW	2909 Anthony Ln  St Anthony Village, MN 55418-3238	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Michael	Krikava	mkrikava@briggs.com	Briggs And Morgan, P.A.	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
Peder	Larson	plarson@larkinhoffman.co m	Larkin Hoffman Daly & Lindgren, Ltd.	8300 Norman Center Drive Suite 1000 Bloomington, MN 55437	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Douglas	Larson	dlarson@dakotaelectric.co m	Dakota Electric Association	4300 220th St W Farmington, MN 55024	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Peter	Madsen	peter.madsen@ag.state.m n.us	Office of the Attorney General-DOC	Bremer Tower, Suite 1800 445 Minnesota Street St. Paul, Minnesota 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Kavita	Maini	kmaini@wi.rr.com	KM Energy Consulting LLC	961 N Lost Woods Rd Oconomowoc, WI 53066	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Pam	Marshall	pam@energycents.org	Energy CENTS Coalition	823 7th St E  St. Paul,  MN  55106	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Joseph	Meyer	joseph.meyer@ag.state.mn .us	Office of the Attorney General-RUD	Bremer Tower, Suite 1400 445 Minnesota Street St Paul, MN 55101-2131	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
David	Moeller	dmoeller@allete.com	Minnesota Power	30 W Superior St  Duluth, MN 558022093	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Andrew	Moratzka	andrew.moratzka@stoel.co m	Stoel Rives LLP	33 South Sixth St Ste 4200  Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
David	Niles	david.niles@avantenergy.c om	Minnesota Municipal Power Agency	220 South Sixth Street Suite 1300 Minneapolis, Minnesota 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Carol A.	Overland	overland@legalectric.org	Legalectric - Overland Law Office	1110 West Avenue  Red Wing, MN 55066	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Jeff	Oxley	jeff.oxley@state.mn.us	Office of Administrative Hearings	600 North Robert Street St. Paul, MN 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl 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 Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Richard	Savelkoul	rsavelkoul@martinsquires.c om	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 Miscl Electric
Zeviel	Simpser	zsimpser@briggs.com	Briggs and Morgan PA	2200 IDS Center80 South Eighth Street Minneapolis, MN 554022157	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Ken	Smith	ken.smith@districtenergy.c om	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 Miscl Electric
Byron E.	Starns	byron.starns@stinson.com	Stinson Leonard Street LLP	50 S 6th St Ste 2600 Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
James M.	Strommen	jstrommen@kennedy- graven.com	Kennedy & Graven, Chartered	470 U.S. Bank Plaza 200 South Sixth Stree Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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 Miscl Electric
Lynnette	Sweet	Regulatory.records@xcele nergy.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 Miscl Electric
Thomas	Tynes	ttynes@energyfreedomcoal ition.com	Energy Freedom Coalition of America	101 Constitution Ave NW Ste 525 East Washington, DC 20001	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
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 Miscl Electric

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
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 Miscl Electric
Cam	Winton	cwinton@mnchamber.com	Minnesota Chamber of Commerce	400 Robert Street North Suite 1500 St. Paul, Minnesota 55101	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Daniel P	Wolf	dan.wolf@state.mn.us	Public Utilities Commission	121 7th Place East Suite 350 St. Paul, MN 551012147	Electronic Service	No	GEN_SL_Northern States Power Company dba Xcel Energy-Elec_Xcel Miscl Electric
Patrick	Zomer	Patrick.Zomer@lawmoss.c om	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 Miscl Electric