
RESIDENTIAL SERVICE

RATE CODES

Residential - General	20
Residential - Space Heating	22
Residential - Seasonal	23

APPLICATION

To electric service for all domestic uses for residential customers in single-family dwellings subject to Company's Residential Service Rules, Extension Rules, Electric Service Regulations and any applicable Riders. There is a maximum of one Residential – General or Residential – Space Heating service per customer. Any additional residence shall be provided service at Residential - Seasonal rate.

A dwelling will be considered to be occupied seasonally when occupied as customer's principal dwelling place for eight months or less each year.

TYPE OF SERVICE

Single phase, 60 hertz, at 120 to 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

	General & Space Heating	Seasonal
Service Charge	\$8.00	\$10.00
0 kWh to 400 kWh	5.272¢	
401 kWh to 800 kWh	7.616¢	
801 kWh to 1,200 kWh	9.962¢	
Over 1,200 kWh	12.502¢	
All kWh (¢/kWh)		8.702¢

Plus any applicable Adjustments.

MINIMUM CHARGE

The Minimum Charge (monthly) shall be the Service Charge plus any applicable Adjustments.

In the case of Seasonal Service, the Minimum Charge (annually) shall not be less than the guaranteed annual revenue based on Company's Extension Rules.

Filing Date November 1, 2019 MPUC Docket No. E015/GR-19-442
Effective Date _____ Order Date _____

Approved by: David R. Moeller
David R. Moeller
Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly billing, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

6. There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Rider for Customer Affordability of Residential Electricity (CARE).

7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

8. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

9. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

10. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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David R. Moeller
Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL SERVICE

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

For Seasonal Residential Service, the initial contract period is one year or such longer period as may be required under an extension agreement, with one year renewal periods.

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Approved by: David R. Moeller
David R. Moeller
Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

RATE CODES

21

APPLICATION

To the interruptible electric service requirements of all-year Residential Customers where a non-electric source of energy is available to satisfy these requirements during periods of interruption. Service is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Single phase, 60 hertz, at 120 to 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge \$8.00

Energy Charge
All kWh (per kWh) 5.412¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

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RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The primary energy source for the Company approved Dual Fuel installation must be electric. The backup heating source must be a non-electric, externally vented heating system, of sufficient size, capable of continuous operation. Under no circumstances will firm electric service or a back-up generator qualify as the secondary or back-up energy source.

2. The interruptible load of the approved Dual Fuel installation shall be separately served and metered and shall at no time be connected to facilities serving customer's firm load.

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RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

3. The duration and frequency of interruptions shall be at the discretion of Company. Interruption will normally occur at such times:

- (a) when Company is required to use oil-fired generation equipment or to purchase power that results in equivalent production cost,
- (b) when Company expects to incur a new system peak,
- (c) at such other times when in Company's opinion the reliability of the system is endangered,
- (d) when Company performs necessary testing for certification of interruptibility of customers' loads.

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer must be prepared to supply all of the interruptible load from an alternative energy source for up to 30% of customer's Dual Fuel requirements during any annual period.

6. Company will provide, at customer's expense, and customer will install, as directed by Company, a load-break switch or circuit breaker. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's remote control equipment.

7. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.

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RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

RATE CODES

24

APPLICATION

To electric service for residential customers for controlled energy storage or other loads which will be energized only for the time period between 11 p.m. and 7 a.m. daily. Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, 60 hertz, voltages of 120 to 240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge \$8.00

Energy Charge
All kWh (per kWh) 4.618¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resource adjustment determined in accordance with the Rider for Renewable Resources.

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RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The controlled load shall be separately served and metered and shall at no time be connected to facilities serving customer's other loads.

2. The total connected controlled load shall not exceed 100 kW.

3. Any controlled energy storage load to which this service schedule applies must have sufficient capacity to satisfy the customer's energy needs during the non-energized period.

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

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RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

5. Customer's load shall be controlled by a switching device approved or supplied by Company and paid for and installed by Customer. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's control equipment.

6. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

RATE CODES

28

APPLICATION

To electric service for residential customers for the sole purpose of recharging electric vehicle(s). Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, 60 hertz, voltages of 120 to 240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

<u>Service Charge</u>	\$4.25
<u>Off-Peak Energy Charge</u> All kWh (per kWh)	1.752¢
<u>On-Peak Energy Charge</u> All kWh (per kWh)	9.612¢

Plus any applicable Adjustments.

RENEWABLE ENERGY OPTION

Customers taking service under this schedule have the option to purchase energy from the Company's current mix of energy supply sources at the rates shown above or entirely from renewable energy sources. "Renewable energy" means electricity generated through use of any of the following resources: wind, solar, geothermal, hydro, trees or other vegetation, or landfill gas. Participation by the Customer is voluntary, and Customers who elect this option shall commit to renewable energy for no less than one year. The rate for the renewable energy option will include a 2.5¢ per kWh surcharge in addition to the per kWh energy charges shown above.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.
3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.
4. There shall be added to the monthly bill, as computed above, a renewable resource adjustment determined in accordance with the Rider for Renewable Resources.
5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.
6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.
7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.
8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.
9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The Residential Off-Peak Electric Vehicle Service load shall be separately served and metered and shall at no time be connected to facilities serving Customer's other loads.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

To be eligible for this rate, Customer must also take Residential Service under the General, Space Heating, or Seasonal rate.

2. The total connected off-peak load shall not exceed 100 kW.
3. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.
4. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.
5. On-Peak and Off-Peak Energy Defined: The On-Peak Energy shall be defined as energy used from 8:00 a.m. to 10:00 p.m., Monday through Friday, inclusive, excluding holidays. The Off-Peak Energy shall include energy used in all other hours. Holidays shall be those days nationally designated and celebrated as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas.

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GENERAL SERVICE

RATE CODES

25

APPLICATION

To any customer's electric service requirements when the total electric requirements are supplied through one meter. Service shall be delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery. Service hereunder is limited to Customers with total power requirements of less than 10,000 kW and is subject to Company's Electric Service Regulations and any applicable Riders.

Applicable to multiple metered service only in conjunction with the respective Rider for such service.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

CUSTOMERS WITHOUT A DEMAND METER

Service Charge \$12.00

Energy Charge for all kWh 8.008¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$12.00

Demand Charge for all kW \$6.50

Energy Charge for all kWh 5.423¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The appropriate service charge plus any applicable Adjustments, however, in no event will the Minimum Charge (Monthly) for three phase service be less than \$25.00 nor will the

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GENERAL SERVICE

Demand Charge per kW of Billing Demand be less than the Minimum Demand specified in customer's contract.

Plus any applicable Adjustments.

HIGH VOLTAGE SERVICE

Where customer contracts for service delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the monthly bill, before Adjustments, will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where customer contracts for service delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the monthly bill, before Adjustments, will be further subject to a discount 0.350¢ per kWh of Energy.

High Voltage Service shall not be available from the Low Voltage Network Area as designated by Company.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

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GENERAL SERVICE

7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.
8. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.
9. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.
10. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

DETERMINATION OF THE BILLING DEMAND

When customer's use exceeds 2500 kWh for three consecutive months or where the connected load indicates customer's demand may be greater than 10 kW, the customer may be placed on a demand rate.

The Billing Demand will then be the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, but not less than the minimum demand specified in customer's contract.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

RATE CODES

26

TERRITORY

Applicable to all Rate Areas.

APPLICATION

To the interruptible electric service requirements of Commercial/Industrial Customers where an alternative source of energy is available to satisfy these requirements during periods of interruption. Service shall be delivered at one point from facilities of adequate type and capacity and shall be metered at (or compensated to) the voltage of delivery. Service is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Single phase, three phase, or single and three phase, 60 hertz, at low voltage (voltage level lower than that available from Company's 13,000 volt system) or high voltage (voltage level equal to or greater than that available from Company's 13,000 volt system).

RATE (Monthly)

Service Charge

Low Voltage Service	\$12.00
High Voltage Service	\$12.00

Energy Charge

Low Voltage Service	5.367¢ per kWh
High Voltage Service	4.786¢ per kWh

Plus any applicable Adjustments.

The High Voltage Service Rate is applicable where service is delivered and metered at (or compensated to) the available high voltage level (13,000 volt system or higher).

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

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Senior Attorney & Director of Regulatory Compliance

COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

Not less than one year or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The primary energy source for the Company approved Dual Fuel installation must be electric. An approved Dual Fuel installation requires that the secondary or back-up energy source be capable of continuous operation. Under no circumstances will firm electric service or a back-up generator qualify as the secondary or back-up energy source.

2. The interruptible load of the approved Dual Fuel installation shall be separately served and metered and shall at no time be connected to facilities serving customer's firm load.

3. The duration and frequency of interruptions shall be at the sole discretion of the Company. Interruption will normally occur at such times:

- (a) when Company is required to purchase or generate power at a cost higher than customer's energy charge,
- (b) when Company expects to incur a system peak,
- (c) when in Company's opinion the reliability of the system is endangered, or
- (d) when Company performs necessary testing of interruptibility of customer's loads.

Interruptions shall normally occur for reliability-related needs before interruptions for any certified interruptible loads for Large Power, Large Light and Power, and General Service.

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer must be prepared to supply all of the interruptible load from an alternative energy source for up to 30% of customer's Dual Fuel requirements during any annual period.

6. The customer will install, at its expense, a load-break switch, circuit breaker, or other means of allowing Company to automatically interrupt customer's Dual Fuel load by sending a command or signal. The Company reserves the right to inspect and approve the installation to ensure compliance and consistency with Company's interruption system. If Company's system cannot support automatic interruption, interruption shall be made in accordance with Service Condition 8. Customer must provide a continuous 120 volt AC

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

power source at Company's control point for operation of Company's remote control equipment.

7. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate. Customers who have guaranteed annual revenue commitments to support line extension costs under a firm rate schedule that are not fully satisfied before switching to Dual Fuel service may be required to have their extension cost contributions recalculated.

8. Upon receiving a control signal from the Company, the Customer must shed its interruptible load in ten (10) minutes or less, and for a duration as required by the Company, whenever the Company determines such interruption is necessary. Customers with existing provisions in their Electric Service Agreements for longer notice before interruption shall continue to have thirty (30) minutes to shed their interruptible loads through the term of their existing contracts or December 31, 1998, whichever is later.

9. Those customers who fail to interrupt their interruptible load after being notified to do so by the Company shall be responsible for all costs incurred by the Company due to such failure, including but not limited to penalties assessed the Company by the Midcontinent Independent System Operator (MISO) in the event the Company experiences a system capacity deficiency. Those costs shall be charged on a pro rata basis to all customers who did not interrupt as requested. Such customers shall also be billed as follows:

- (a) The first failure to interrupt shall result in the Customer being billed for the entire month on the standard applicable General Service or Large Light and Power Service Schedule (thereby not receiving an interruptible discount).
- (b) If a second such failure to interrupt occurs, in addition to billing as specified in (a) above, the Company reserves the right to discontinue customer's service under the Dual Fuel Interruptible Electric Service Schedule.

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COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

RATE CODE

27

APPLICATION

To electric service for commercial/industrial customers for controlled energy storage or other loads which will be energized only for the time period between 11 p.m. and 7 a.m. daily. Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at low voltage (voltage level lower than that available from Company's 13,000 volt system) or high voltage (voltage level equal to or greater than that available from Company's 13,000 volt system), supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge

High Voltage Service	\$12.00
Low Voltage Service	\$12.00

Energy Charge

High Voltage Service	3.992¢ per kWh
Low Voltage Service	4.573¢ per kWh

Plus any applicable Adjustments.

The High Voltage Service Rate is applicable where service is delivered and metered at (or compensated to) the available high voltage level (13,000 volt system or higher).

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

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Approved by: David R. Moeller
David R. Moeller
Senior Attorney & Director of Regulatory Compliance

COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The controlled load shall be separately served and metered and shall at no time be connected to facilities serving customer's other loads.

2. The total connected controlled load shall not exceed 200 kW.

3. Any controlled energy storage load to which this service schedule applies must have sufficient capacity to satisfy the customer's energy needs during the non-energized period.

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COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer's load shall be controlled by a switching device approved or supplied by Company and paid for and installed by Customer. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's control equipment.

6. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate. Customers who have guaranteed annual revenue commitments to support line extension costs under a firm rate schedule that are not fully satisfied before switching to Controlled Access Electric Service may be required to have their extension cost contributions recalculated.

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LARGE LIGHT AND POWER SERVICE

RATE CODES

75

APPLICATION

To the entire electric service requirements on customer's premises delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery.

Service hereunder is limited to Customers with total power requirements of less than 50,000 kW and is subject to Company's Electric Service Regulations and any applicable Riders. Customers with total power requirements in excess of 10,000 kW shall be served under this rate only where customer and Company have executed an electric service agreement having an initial minimum term of ten (10) years with a minimum cancellation provision of four (4) years.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

Demand Charge

For the first 100 kW or less of Billing Demand	\$1,200.00
All additional kW of Billing Demand (\$/kW)	\$10.50

Energy Charge

All kWh (¢/kWh)	3.669¢
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Plus any applicable Adjustments.

HIGH VOLTAGE SERVICE

Where service is delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the Demand Charge will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where service is delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the Energy Charge will also be subject to a discount of 0.350¢ per kWh of Energy.

High voltage service shall not be available from the Low Voltage Network Area as designated by Company.

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David R. Moeller
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LARGE LIGHT AND POWER SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

8. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

9. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

10. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

DETERMINATION OF THE BILLING DEMAND

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LARGE LIGHT AND POWER SERVICE

Billing Demand is the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, except that the Billing Demand will not be less than the lower of:

- a) 75% of the greatest adjusted demand during the preceding eleven months, or
- b) The greatest adjusted demand during the preceding eleven months minus 100 kW.

However, the Billing Demand shall not be less than the minimum demand specified in the customer's contract.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

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COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

RATE CODES

73

APPLICATION

To the electric service requirements of a customer requiring service for no less than 2,000 kW and no more than 50,000 kW of connected load, where such electric service requirements are subject to effective competition. Specifically, a customer is subject to effective competition, per Minnesota Statutes, Section 216B.162, if the customer is located within the Company's assigned service area as determined under Minnesota Statutes, Section 216B.39, and if the customer has the ability to obtain its energy requirements from an energy supplier that is not regulated by the Commission under Minnesota Statutes, Section 216B.16.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at the voltage level specified in customer's contract.

RATE

To be specified in customer's contract.

TERMS AND CONDITIONS

1. The minimum rate under this schedule shall recover at least the incremental cost of providing the service, including the cost of additional capacity that is to be added while the rate is in effect and any applicable on-peak or off-peak differential.
2. The maximum possible rate reduction under this rate schedule shall not exceed the difference between the Company's Large Light and Power Service Rate Schedules 75 and the cost to the customer of the lowest cost competitive energy supply.
3. The term of a contract for a customer who elects to take service under this schedule must be no less than one year and no longer than five years.
4. The Company, within a general rate case, is allowed to seek recovery of the difference between the standard Large Light and Power Service Rate Schedules 75 and the competitive rate times the usage level during the test year period.
5. A rate under this competitive rate schedule shall meet the conditions of Minnesota Statutes, Section 216B.03, for other customers in this same customer class.

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COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

6. A rate under this schedule shall not compete with district heating or cooling provided by a district heating utility as defined by Minnesota Statutes, Section 216B.166, subdivision 2, paragraph (c).

7. A rate under this schedule may not be offered to a customer in which the Company has a financial interest greater than 50 percent.

8. The rate pursuant to this tariff may take effect on an interim basis after the filing of the contract with the Minnesota Public Utilities Commission and upon the date specified. If the Commission does not approve the rate, Minnesota Power may seek to recover the difference in revenues between the interim competitive rate and the standard tariff from the customer who was offered the competitive rate. While an interim competitive rate is in effect, the difference between rates under the competitive rate and rates under the standard tariff for that class are not subject to recovery or refund.

REGULATION AND JURISDICTION

The Commission has the authority to approve, modify or reject a rate under this schedule. If the Commission approves the competitive rate, it becomes effective as agreed to by the Company and the customer. If the competitive rate is modified by the Commission, the Commission shall issue an order modifying the competitive rate subject to the approval of the Company and the customer. Each party has ten days in which to reject the proposed modification. If no party rejects the proposed modification, the Commission's order becomes final. If either party rejects the Commission's proposed modification, the Company, on its behalf or on the behalf of the customer, may submit to the Commission a modified version of the Commission's proposal. The Commission shall accept or reject the modified version within 30 days. If the Commission rejects the competitive rate, it shall issue an order indicating the reasons for the rejection.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to the bill the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

3. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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Senior Attorney & Director of Regulatory Compliance

COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

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Senior Attorney & Director of Regulatory Compliance

LARGE POWER SERVICE

RATE CODES

74

APPLICATION

The Large Power Service Schedule ("LP Schedule") applies to electric service delivered from existing Company facilities of adequate type and capacity, where Customer and Company have executed an Electric Service Agreement ("ESA") agreeing to the purchase and sale of Large Power Service and supplementing the terms and conditions of Large Power Service set forth in this LP Schedule.

Service under this LP Schedule is also subject to Company's Electric Service Regulations as well as all riders and other tariffs applicable to Large Power Service.

Customer shall not be entitled to purchase any service from the Company under this LP Schedule for purposes of resale to any other entity or to the Company.

ELECTRIC SERVICE AGREEMENTS

Every ESA and every amendment or modification of an ESA must be approved by the Minnesota Public Utilities Commission ("Commission") as a supplemental addition to this LP Schedule.

At a minimum, every ESA shall include the following:

- (a) The connection point(s) of Company's and Customer's equipment at which Customer takes service ("Points of Delivery");
- (b) The voltage level(s) at which service will be supplied;
- (c) A method for determining Firm Demand (as defined below) in each month of the term of the ESA;
- (d) An Incremental Production Service Threshold as defined in the Rider for Large Power Incremental Production Service, as applicable;
- (e) A confidentiality agreement; and
- (f) Any terms or conditions that differ from or are additional to the terms and conditions specified in this LP Schedule or in any rider or tariff applicable to Large Power Service.

Unless otherwise specifically approved by the Commission, each ESA shall have an initial minimum term of ten (10) years and shall continue in force until either party gives the other party written notice of cancellation at least four years prior to the time such cancellation shall be effective.

The effective date of each ESA shall be subject to approval by the Commission.

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LARGE POWER SERVICE

No Commission approval of any ESA shall act to prevent the Commission from later increasing or decreasing any of the rates or charges contained in this LP Schedule, any Rider or any other tariff applicable to Large Power Service. Nor shall any Commission approval of any ESA exempt any Customer from the applicability of any such increased or decreased charges.

An ESA shall be binding upon the Company and the Customer and their successors and assigns, on and after the effective date of the ESA; provided, however, that neither party may assign that ESA or any rights or obligations under the ESA without the prior written consent of the other party, which consent shall not unreasonably be withheld.

Inasmuch as all ESAs will contain confidential information with respect to Customer electric usage levels and other proprietary information of both the Customer and the Company ("Confidential Information"), all ESAs are to be marked as trade secret in their entirety for purposes of the Minnesota Government Data Practices Act. For this purpose, Confidential Information includes all disclosures, information and materials, whether oral, written, electronic or otherwise, relating to the business of either the Customer or the Company, that is not generally available to the trade or the public. The ESA may specifically expand this definition to ensure Customer-specific and/or Company-specific protections are in place. Because use and disclosure of Confidential Information requires a written agreement, the Company and the Customer will agree to such use and disclosure in each ESA.

For purposes of ESAs capitalized terms used in this LP Schedule shall have the same meaning as capitalized terms in the ESA.

For purposes of ESAs, the term "Holidays" shall mean New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas Eve Day, Christmas Day, and New Year's Eve Day.

For purposes of ESAs, the term "Office" shall mean the Minnesota Office of Energy Security or its successor organization.

TYPE OF SERVICE

Unless otherwise agreed in an ESA, Large Power Service shall be three phase, 60 hertz, at Company's available transmission voltage of at least 115,000 volts. Customer may specifically request to take all or any portion of its Large Power Service at Company's available high voltage of 13,000 through 69,000 volts, and such lower voltage deliveries may be subject to a Service Voltage Adjustment as described below.

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LARGE POWER SERVICE

BASE RATES (MONTHLY)

The following charges (as modified by the Adjustments described below) shall apply to all service under this LP Schedule and the ESAs (collectively, the "Base Rates"):

Demand Charge

A single application for the first 10,000 kW or less of Firm Demand \$250,087

All additional kW of Firm Demand (\$/kW) \$24.96

Energy Charge

All Firm Energy kWh (ϕ /kWh) (All On-Peak and Off-Peak) 0.678 ϕ

Excess Energy Charge

All kWh of Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost as described more fully in paragraphs 2 and 3 under "ENERGY."

ADJUSTMENTS

Company may modify Base Rates by the following adjustments:

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. Service Voltage Adjustment. Unless otherwise agreed in the ESA, where service delivery voltage is at Company's available high voltage of 13,000 through 69,000 volts, Company will increase the Demand Charge by \$1.75 per kW of Firm Demand for that portion of Firm Demand taken at 13,000 through 69,000 volts.

3. Fuel and Purchased Energy Adjustment. A fuel and purchased energy adjustment will be determined in accordance with the Rider for Fuel and Purchased Energy Adjustment and a conservation program

4. Conservation Adjustment. Adjustment will be determined in accordance with the Rider for Conservation Program Adjustment.

5. Transmission Adjustment. A transmission investment adjustment will be determined in accordance with the Rider for Transmission Cost Recovery.

6. Renewable Resource Adjustment. A renewable resources adjustment will be determined in accordance with the Rider for Renewable Resources.

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LARGE POWER SERVICE

7. CARE Low-Income Affordability Program Surcharge: There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

8. Boswell 4 Plan Adjustment: There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

9. Solar Energy Adjustment: There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

10. Taxes and Assessments. An adjustment for the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

11. Franchise Fee. An adjustment for customers located within the corporate limits of the applicable city as specified in the applicable Rider for the city's Franchise Fee.

MEASURED AND ADJUSTED DEMAND

The measured demand ("Measured Demand") in the month shall be the sum of kW measured from all of the Points of Delivery specified in the ESA during the 15-minute period of Customer's greatest use during the month.

The adjusted demand ("Adjusted Demand") in the month shall be the Measured Demand increased by one kilowatt for each 20 kvar of excess reactive demand. Excess reactive demand means the amount by which the maximum 15-minute measured kvar during the month exceeds 50% of the first 20,000 kW of Measured Demand plus 25% of all additional kW of Measured Demand.

This provision shall supersede all references to Metered Demand, Measured Demand, and Adjusted Demand in the Customers' ESAs.

DEMAND

1. Firm Demand. The Customer's ESA specifies the amount of Firm Demand in any billing month. In general, the Firm Demand will be based on amount specified, selected, nominated, determined or agreed upon in the Customer's ESA. Regardless of how the ESA describes or calculates the Customer's contractual demand in any billing month for purposes of applying the Demand Charge, this amount shall be deemed to be the Customer's Firm Demand for purposes of this LP Schedule and the application of the Demand Charge.

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LARGE POWER SERVICE

2. Demands in Excess of Firm Demand. Company will endeavor to serve Customer requirements for power in excess of Firm Demand, but Company has no responsibility or liability whatsoever for failing to provide any power in excess of Firm Demand.

DEMAND NOMINATIONS

1. Demand Nomination increases. For all Customers who notify the Company periodically throughout the year per the terms of their respective ESAs, need to be made by the last business day excluding weekends and Holidays prior to the nominating deadlines specified in the Customers' ESAs. This provision shall supersede all references to all language in Customers' ESAs relating to nomination notice deadlines.

ENERGY

1. Firm Energy. Firm Energy shall mean the total electric consumption of the Customer measured in kilowatt-hours ("kWh") in each hour of the billing month, regardless of whether it is taken during peak or off peak hours, but limited to no more than the Customer's Firm Demand in any hour. In general, the amount of Firm Energy billed in each hour of the billing month will be equal to the amount of Firm Demand in that month unless modified by terms in the Customer's ESA.

2. Excess Energy. Excess Energy shall be the kWh of energy taken by Customer in each hour of the month in excess of the allowable Firm Energy levels specified in the Customer's ESA in that hour, unless the Customer takes such energy under the Rider for Large Power Incremental Production Service or another Rider applicable to Large Power Service and available to the Customer pursuant to its ESA.

3. Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in month. Company's Incremental Energy Cost shall be determined each hour of the month and shall include fuel costs and variable operation and maintenance expenses for generating or purchasing the excess energy. Company's Incremental Energy Cost will be the highest cost energy after assigning lower cost energy to: all firm retail and wholesale customer requirements; all intersystem (pool) sales that involve capacity on a firm or participation basis; and all interruptible sales to Large Power, Large Light and Power, and General Service customers; but not including sales for Incremental Production Service.

PAYMENT

All bills for Large Power Service are due and payable at any office of Minnesota Power 15 days following the date the Company renders the bill or such later date as may be specified on the bill unless the Customer is subject to the Rider for Expedited Billing Procedures—Large Power Class or Customer specifically agrees to be subject to the Rider for Expedited Billing Procedures—Large Power Class in the ESA. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If Company

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LARGE POWER SERVICE

does not receive payment on or before the due date printed on the bill, the bill shall be past due and delinquent.

LARGE POWER SURCHARGE

For new customers with Firm Demand in excess of 50,000 kW in any twenty-four month period, or for existing customers with increases in Firm Demand of more than 50,000 kW in any twenty-four month period, the additional Firm Demand in excess of 50,000 kW will be subject to a Large Power Surcharge. The Company will assess the Large Power Surcharge for a period of five years from the date the Customer executes a binding Commitment Agreement to take the power. The Large Power Surcharge will cover the additional cost to Company of obtaining the necessary power supply. The Large Power Surcharge shall be the sum of a Capacity Portion and Energy Portion as described below. If the sum is negative then the Large Power Surcharge shall be zero.

Capacity Portion

For each kW of Firm Demand subject to surcharge Company shall add to the Demand Charge the excess of Company's Large Power Surcharge Supply Capacity Costs per kW over Company's Basic Capacity Cost. Company's Large Power Surcharge Supply Capacity Costs per kW will be: 1) Company's cost per kW as purchased from its power suppliers with appropriate adjustments for reserve requirements/replacement power, transmission losses and coincidence factor; 2) The Company's estimated annual Revenue Requirements per kW associated with Company's power production facilities added or refurbished to supply the power; or 3) A blend of the above costs if more than one source is used to supply the power. Company's Basic Capacity Costs per kW will be Company's estimated annual Revenue Requirements associated with Company-owned power production facilities and with Company firm power purchases, exclusive of the estimated annual Revenue Requirements associated with any such purchases or Company-owned power facilities which are covered by a Large Power Surcharge, divided by the aggregate coincidental kilowatts of all customer loads serviced by such generating capacity and purchased capacity, adjusted for estimated transmission losses and load coincidence factor.

Company will advise Customer of the Large Power Surcharge Supply Capacity Costs as soon the Company has made arrangements for the capacity and Company will advise Customer of the Company's Basic Capacity Costs 30 days prior to the beginning of each calendar year in which the surcharge may be applied.

Energy Portion

For each kWh delivered to Customer subject to surcharge, Company shall add to the Energy Charge the excess of Company's Actual Large Power Surcharge Supply Energy Costs per kWh over the Company's Basic Energy Costs.

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LARGE POWER SERVICE

Company's Actual Large Power Surcharge Supply Energy Costs per kWh will be determined monthly as Company's actual cost per kWh for the energy: 1) Generated by and associated with the Purchased Capacity, adjusted for estimated transmission losses; 2) Generated by and associated with Company's power production facilities added or refurbished to supply the power; or 3) A blend of the above costs if more than one source is used to supply the power. Company's Basic Energy Costs per kWh will be Company's estimated annual Revenue Requirements for fuel and associated operation and maintenance expenses at Company-owned power production facilities, and for energy associated with firm power purchases and economy purchases (but exclusive of all emergency and scheduled outage energy, and exclusive of any energy associated with Purchased Capacity and exclusive of energy provided by Company-owned power facilities covered by a Large Power Surcharge) divided by the aggregate associated kilowatt-hours, adjusted for estimated transmission losses.

Company will advise Customer of the approximate Large Power Surcharge Supply Energy Costs and Company's Basic Energy Costs 30 days prior to the beginning of each calendar year in which the surcharge may be applied.

Where the above surcharge is applicable to only a portion of the electric service taken at one point of delivery, the kWh subject to surcharge shall be the total kWh delivered in the month multiplied by the ratio of the Capacity subject to surcharge over the total Firm Demand at that point of delivery.

OPERATING PRACTICES

The Company shall employ operating practices and standards of performance in providing service under this LP Schedule that conform to those recognized as sound practices within the utility industry. In making deliveries of power under this LP Schedule, Company shall exercise such care as is consistent with normal operating practice by using all available facilities to minimize and smooth out the effects of sudden load fluctuations or other variance in voltage or current characteristics that may be detrimental to Customer's operations.

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David R. Moeller
Senior Attorney & Director of Regulatory Compliance

NON-CONTRACT LARGE POWER SERVICE

RATE CODES

78

APPLICATION

To the entire electric service requirements of 10,000 kW or more on customer's premises delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery for customers whose power requirements are of a relatively short-term nature or of a level of uncertainty which prevents long-term contractual commitment under the normally applicable terms and conditions for service under Company's Large Power Service Schedule.

Service hereunder is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Three phase, 60 hertz, at Company's available transmission voltage of 115,000 volts. Service may also be taken at Company's available high voltage of 13,000 through 69,000 volts subject to billing in conjunction with a Service Voltage Adjustment.

RATE (Monthly)

Demand Charge

For the first 10,000 kW or less of Non-Contract Billing Demand \$300,104

All additional kW of Non-Contract Billing Demand (\$/kW) \$29.95

Energy Charge

All Firm Energy kWh (¢/kWh) (All On-Peak and Off-Peak) 0.678¢

All kWh of Non-Contract Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in accordance with the conditions set forth in paragraph 2 under "NON-CONTRACT ENERGY."

Plus any applicable Adjustments.

SERVICE VOLTAGE ADJUSTMENT

Where service delivery voltage is at Company's available high voltage of 13,000 through 69,000 volts, the Demand Charge will be increased by \$2.10 per kW of Non-Contract Billing Demand.

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Senior Attorney & Director of Regulatory Compliance

NON-CONTRACT LARGE POWER SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment. Such Fuel Adjustment shall be applicable to Customer's Non-Contract Firm Energy only.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. Solar Energy Adjustment: There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

MEASURED AND ADJUSTED DEMAND

The measured demand ("Measured Demand") in the month shall be the kW measured from all of the Points of Delivery specified in the ESA during the 15-minute period of Customer's greatest use during the month

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NON-CONTRACT LARGE POWER SERVICE

The adjusted demand ("Adjusted Demand") in the month shall be the Measured Demand increased by one kilowatt for each 20 kvar of excess reactive demand. Excess reactive demand means the amount by which the maximum 15-minute measured kvar during the month exceeds 50% of the first 20,000 kW of Measured Demand plus 25% of all additional kW of Measured metered Demand.

This provision shall supersede all references to Metered Demand, Measured Demand, and Adjusted Demand in the Customers' ESAs.

NON-CONTRACT BILLING DEMAND

Non-Contract Billing Demand in the month is the greater of the current month's Measured Demand or the largest Measured Demand taken under Schedule 78 in the previous 12 months.

NON-CONTRACT ENERGY

1. Non-Contract Firm Energy in the month shall be the total kWh of energy taken by Customer in the month multiplied by the ratio of Non-Contract Billing Demand in the previous month to the current month's Measured Demand. Such ratio shall not exceed one.

2. Non-Contract Excess Energy shall be the kWh of energy taken by Customer in the billing month which is in excess of the Non-Contract Firm Energy. Such Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in month. Company's Incremental Energy Cost shall be determined each hour of the month and shall include fuel costs and variable operation and maintenance expenses for generating or purchasing the excess energy, and will be the highest cost energy after assigning lower cost energy to all firm retail and wholesale customer requirements, to all intersystem (pool) sales which involve capacity on a firm or participation basis, and to all economy and other similar transactions which may be entered into by Company from time to time.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

PURCHASED POWER SURCHARGE

When the Company does not have sufficient capacity to serve Customer's power requirements, a Purchased Power Surcharge will be assessed to cover the additional costs

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NON-CONTRACT LARGE POWER SERVICE

of purchasing such power provided Company is able to purchase and make available power for Customer's use. The Purchased Power Surcharge shall be the sum of a Capacity Portion and Energy Portion as described below, except if such sum is negative, then the Purchased Power Surcharge shall be zero.

Capacity Portion

For each kW of Non-Contract Billing Demand, there shall be added the excess of Company's Purchased Capacity Costs per kW over Company's Basic Capacity Cost. Company's Purchase Capacity Costs per kW will be Company's cost per kW as purchased from its power suppliers with appropriate adjustments for reserve requirements/replacement power, transmission losses and coincidence factor. Company's Basic Capacity Costs per kW will be Company's estimated annual Revenue Requirements associated with Company-owned power production facilities and with Company firm power purchases, exclusive of any such purchases which are covered by a Large Power Surcharge, divided by the aggregate coincidental kilowatts of all customer loads serviced by such generating capacity and purchased capacity, adjusted for estimated transmission losses and load coincidence factor.

Company will advise Customer of the Purchased Capacity Costs as soon as arrangements have been made for such capacity and Company will advise Customer of the Company's Basic Capacity Costs 30 days prior to the beginning of each calendar year in which the surcharge will be applied.

Energy Portion

For each kWh of Non-Contract Firm Energy delivered to Customer, there shall be added the excess of Company's Actual Purchased Energy Costs per kWh over the Company's Basic Energy Costs. Company's Actual Purchased Energy Costs per kWh will be determined monthly as Company's actual cost per kWh for the energy generated by and associated with the Purchased Capacity, adjusted for estimated transmission losses.

Company's Basic Energy Costs per kWh will be Company's estimated annual Revenue Requirements for fuel and associated operation and maintenance expenses at Company-owned power production facilities, and for energy associated with firm power purchases and economy purchases (but exclusive of all emergency and scheduled outage energy, and exclusive of any energy associated with Purchased Capacity) divided by the aggregate associated kilowatt-hours, adjusted for estimated transmission losses.

Company will advise Customer of the approximate Purchased Energy Costs and Company's Basic Energy Costs 30 days prior to the beginning of each calendar year in which the surcharge will be applied.

SERVICE CONDITIONS

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NON-CONTRACT LARGE POWER SERVICE

Service is available under this Schedule to customers who otherwise qualify but who elect not to take service under Company's Large Power Service Schedule 74 for which a ten (10) year contract term and at least a four (4) year contract cancellation provision are required by Company. Such service shall be subject to all provisions of this Schedule. The initial Non-Contract Demand of Power (Initial Demand) for such an electric service agreement shall be the Measured Demand which Customer established during the first full month of service.

A customer taking service on Schedule Non-Contract Large Power Service 78 may not take service from Schedule 74 without a one (1) year written notice to Company, unless the Company agrees otherwise. Additionally, unless Company has agreed otherwise, customers who have given notice of cancellation of a contract for service on Large Power Service Schedule 74 and have chosen to reinstate that contract less than 12 months prior to the effective date of cancellation shall receive service under this schedule. Such service will be provided from the effective date of the reinstatement and will continue until 12 months have elapsed from the date the reinstatement was executed.

Company recognizes that Customer's demand may, from time to time, exceed the Initial Demand in the electric service agreement. Company will endeavor to serve demands in excess of the Initial Demand but assumes no responsibility or liability whatsoever for providing such service.

REGULATION AND JURISDICTION

Electric service shall be available from Company at the rates and under the terms and conditions set forth in the currently applicable rate schedule or other superseding rate schedules in effect from time to time.

All the rates and regulations referred to herein are subject to approval, amendment and change by any regulatory body having jurisdiction thereof.

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COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

RATE CODES

79

APPLICATION

To the electric service requirements of a customer requiring 10,000 kW or more, where the electric service requirements of 10,000 kW or more are subject to effective competition. Specifically, a customer is subject to effective competition, per Minnesota Statutes, Section 216B.162, if the customer is located within the Company's assigned service area as determined under Minnesota Statutes, Section 216B.39, and if the customer has the ability to obtain its energy requirements from an energy supplier that is not regulated by the Commission under Minnesota Statutes, Section 216B.16.

TYPE OF SERVICE

Three phase, 60 hertz at high voltage of 13,000 through 69,000 volts or at transmission voltage of 115,000 volts.

RATE

To be specified in customer's contract.

TERMS AND CONDITIONS

1. The minimum rate under this schedule shall recover at least the incremental cost of providing the service, including the cost of additional capacity that is to be added while the rate is in effect and any applicable on-peak or off-peak differential.
2. The maximum possible rate reduction under this rate schedule shall not exceed the difference between the Company's Large Power Service Rate Schedules 74 and the cost to the customer of the lowest cost competitive energy supply.
3. The term of a contract for a customer who elects to take service under this schedule must be no less than one year and no longer than five years.
4. The Company, within a general rate case, is allowed to seek recovery of the difference between the standard Large Power Service Rate Schedules 74 and the competitive rate times the usage level during the test year period.
5. A rate under this competitive rate schedule shall meet the conditions of Minnesota Statutes, Section 216B.03, for other customers in this same customer class.

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COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

6. A rate under this schedule shall not compete with district heating or cooling provided by a district heating utility as defined by Minnesota Statutes, Section 216B.166, subdivision 2, paragraph (c).

7. A rate under this schedule may not be offered to a customer in which the Company has a financial interest greater than 50 percent.

8. The rate pursuant to this tariff may take effect on an interim basis after the filing of the contract with the Minnesota Public Utilities Commission and upon the date specified. If the Commission does not approve the rate, Minnesota Power may seek to recover the difference in revenues between the interim competitive rate and the standard tariff from the customer who was offered the competitive rate.

REGULATION AND JURISDICTION

The Commission has the authority to approve, modify or reject a rate under this schedule. If the Commission approves the competitive rate, it becomes effective as agreed to by the Company and the customer. If the competitive rate is modified by the Commission, the Commission shall issue an order modifying the competitive rate subject to the approval of the Company and the customer. Each party has ten days in which to reject the proposed modification. If no party rejects the proposed modification, the Commission's order becomes final. If either party rejects the Commission's proposed modification, the Company, on its behalf or on the behalf of the customer, may submit to the Commission a modified version of the Commission's proposal. The Commission shall accept or reject the modified version within 30 days. If the Commission rejects the competitive rate, it shall issue an order indicating the reasons for the rejection.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to the bill the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

3. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

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OUTDOOR AND AREA LIGHTING SERVICE

RATE CODES

Outdoor Lighting Service	76
Area Lighting Service	77

APPLICATION

To all classes of retail customers for outdoor lighting purposes (Rate Codes 76) and to persons other than governmental subdivisions for the purpose of lighting streets, alleys, roads, driveways and parking lots (Rate Code 77) subject to any applicable Riders. Rate Code 76 is not available on a seasonal or temporary basis.

RATE

<u>Lamp Type & Size</u> Sub rate code	<u>CIS Code</u>	Rate Per Lamp Per Month			
		<u>Option 1</u> __A	<u>Option 2</u> __B	<u>Option 3</u> __C	<u>Option 4</u> __D
			(Option 2 Closed to New Installation)	(Option 3 Closed to New Installation)	
Mercury Vapor Lamps					
7,000 Lumens (175 watts)	MV175W	\$11.69	\$8.15		
20,000 Lumens (400 watts)	MV400W	\$18.57	\$12.90		
55,000 Lumens (1,000 watts)	MV1000W	\$34.89	\$25.08		
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	SV100W	\$10.24	\$5.91	\$5.91	
14,000 Lumens (150 watts)	SV150W	\$11.82	\$7.53		
23,000 Lumens (250 watts)	SV250W2	\$16.78	\$10.02	\$10.09	
45,000 Lumens (400 watts)	SV400W	\$22.44	\$13.45	\$11.75	
Metal Halide Lamps					
17,000 Lumens (250 watts)	MH250W	\$16.58			
28,800 Lumens (400 watts)	MH400W	\$20.33		\$12.05	
88,000 Lumens (1,000 watts)	MH1000W	\$33.87		\$22.90	
Light Emitting Diodes (LED)					
4,674 Lumens (48 watts or less)	LED48W	\$9.19			

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OUTDOOR AND AREA LIGHTING SERVICE

Pole Charge

Each pole used for service
 under this schedule only MPPOLE \$6.64 \$6.64 \$6.64

Monthly Service Charge Included Included Included \$2.09
 Energy Charge - Per kWh Included Included Included 5.391¢

Plus any applicable adjustments

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

The monthly fuel and purchased energy adjustment per lamp shall be determined as the above fuel and purchased energy adjustment per kWh multiplied by the monthly kWh per lamp shown in the Energy Table below for the respective lamps.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

7. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

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OUTDOOR AND AREA LIGHTING SERVICE

8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

BURNING SCHEDULE

Burning schedule is from dusk until dawn each night for a total of approximately 4,200 hours per year.

ENERGY TABLE

Lamp CIS Code	Days Month	31 28 31 30 31 30 31 31 30 31 30 31												
		Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burning Hours	Daily Estimates	4,200	462	379	367	302	264	233	252	294	336	401	435	475
Monthly kWh usage per fixture by type														
MV175W	2	888	98	80	78	64	56	49	53	62	71	85	92	100
MV400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MV1000W	13	4,620	508	417	404	332	290	256	277	323	370	441	479	523
SV100W	1	504	56	46	44	36	32	28	30	35	40	48	52	57
SV150W	2	756	83	68	66	54	48	42	45	53	60	72	78	87
SV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
SV400W	6	2,016	222	182	176	145	127	112	121	141	161	192	209	228
MH250W	3	1,260	139	114	110	91	79	70	76	88	101	120	130	142
MH400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MH1000W	12	4,410	485	398	385	317	277	245	264	309	353	421	457	499
LED48W	1	207	23	19	18	15	13	11	12	14	17	20	21	24

Company shall furnish all electric energy required for service under this schedule.

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OUTDOOR AND AREA LIGHTING SERVICE

EQUIPMENT OWNERSHIP, OPERATION AND MAINTENANCE

New Customer must select Option 1 or Option 4 only for each account served under this schedule.

Option 1

COMPANY TO OWN AND MAINTAIN:

1. The Company shall install, own, operate and provide normal maintenance to all equipment necessary for the above service including the Lighting Equipment beyond the point of attachment to Company's facilities consisting of, but not limited to, the fixture, lamp, ballast, photo-electric control and wiring.

Option 2

1. The Customer shall own all equipment for service under this schedule beyond the point of attachment with Company's pole or pad-mounted transformer. The equipment shall include, but not be limited to, the fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. All customer-owned equipment must meet Company's specifications.

2. The Company shall install and operate all equipment necessary for service under this schedule and Company will own all equipment necessary for service under this Option, including poles, except for that equipment as specified in paragraph 1. All Customer owned Lighting Equipment will be installed at Customer's expense. The Company shall perform all normal maintenance on equipment necessary for service under this schedule and furnish and replace all burned out lamps and photo-electric controls Option 2 is closed to new installations.

Option 3

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's pole or pad-mounted transformer. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. All Customer owned equipment must meet Company's specifications. Customer is responsible for providing lighting poles.

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2. The Company shall own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. No maintenance will be provided by the Company on Customer owned equipment except as specified in a separate agreement. Option 3 is closed to new installations.

Option 4

CUSTOMER TO OWN AND MAINTAIN:

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's electrical system. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. Customer's disconnect switch must meet Company's specifications. Company's point of delivery shall be on the Company's side of disconnect switch either at the weather head for overhead service or at the pad mount transformer for underground service.

2. Customer is responsible for all maintenance on all equipment beyond Company's point of delivery. Standard safety procedures followed by the Company on Company-owned lighting facilities shall be followed by Customer when maintaining its lighting equipment. Company reserves the right to disconnect Customer equipment from Company's electrical system if in the Company's opinion Customer's lighting equipment is operated or maintained in an unsafe or improper condition.

CONTRACT PERIOD

Six months, automatically renewable for six month periods unless canceled by 30 days written notice by either party to the other.

SERVICE CONDITIONS

1. Lights shall be located at sites designated and authorized by Customer. Customer shall provide in writing suitable right-of-way and right-of-occupancy for the facilities which the Company deems necessary to render service under the option chosen. The location shall be readily accessible to Company's equipment used for servicing and/or supplying service under the option chosen.

2. Service will normally be from standard distribution facilities typical of those in the area surrounding the point of service. If it is necessary to provide non-standard distribution facilities, Customer shall pay Company for all costs in excess of standard facility costs.

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OUTDOOR AND AREA LIGHTING SERVICE

3. Company will, at Customer's expense, relocate or change the position of any poles, circuits or lights owned by the Company as may be requested in writing and duly authorized by Customer.

4. For Area Lighting Service purposes, no more than four lights will be mounted on a single distribution pole used for other utility purposes. If more than one light is mounted on a single pole, Company's investment in additional facilities, over and above those which would be required for a single standard bracket mounting, shall not exceed \$15.00 per light. Additional required investment will be at Customer's expense.

5. Company shall provide as standard a service extension of up to the equivalent of one pole span to provide service under this schedule without cost to the Customer. No additional transformer capacity shall be provided as standard for Area Lighting Service. All necessary costs for providing service under this schedule in excess of standard costs shall be paid by Customer.

6. For lamps which satisfy the conditions as set forth in Options 1 or 2 under Equipment Ownership, Operation and Maintenance, Company will absorb the cost of replacing a lamp and photo-electric control devices damaged by a first act of vandalism at each location during each calendar year. In addition, Company will absorb the cost of replacing a lighting unit damaged by a first act of vandalism at each location during each calendar year if served under Option 1. All subsequent and other costs due to vandalism are at Customer's expense. For those locations served under Option 1 or 2, Company will repair equipment (not covered above) damaged by vandalism and will bill customer for appropriate costs.

SCHEDULE OF CHARGES

Applicable in conjunction with Service Conditions paragraph 6.

Labor and vehicle charges per the applicable rate as stated in the Company's Accounting Manual at the time the charge was incurred. Materials charges per the Company's cost for lighting replacement equipment plus the then current Material Handling Expense and A&G expense per Company's Accounting Manual.

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MUNICIPAL PUMPING

RATE CODES

87

APPLICATION

To electric service supplied to a municipality for the operation of water pumping and sewage disposal facilities, where all such facilities are completely electrified and operated by service of Company, subject to Company's Electric Service Regulations and any applicable Riders. Service shall be delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery.

Service under this Schedule is closed to new customers. Existing customer(s) shall be gradually transitioned to an alternative applicable Rate Schedule.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

CUSTOMERS WITHOUT A DEMAND METER

Service Charge \$12.00

Energy Charge

All kWh (¢/kWh) 8.050¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$12.00

Demand Charge

All kW (\$/kW) \$6.50

Energy Charge

All kWh (¢/kWh) 5.465¢

Plus any applicable Adjustments.

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MUNICIPAL PUMPING

MINIMUM CHARGE (Monthly)

Demand Charge per kW of Billing Demand but not less than the Minimum Demand specified in customer's contract.

Plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

3. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

4. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

5. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

6. There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

8. There shall be added or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

9. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or

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MUNICIPAL PUMPING

the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

10. Bills for service to Municipalities within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

HIGH VOLTAGE SERVICE

Where customer contracts for service delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the monthly bill, before Adjustments, will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where customer contracts for service delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the monthly bill, before Adjustments, will also be subject to a discount of 0.350¢ per kWh of Energy.

DETERMINATION OF BILLING DEMAND

The Billing Demand is the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, but not less than 5 kW.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

Maximum use created by the operation of fire pumps will be disregarded if Company is notified promptly.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Five years, automatically renewable for one year periods unless canceled by 30 days' written notice by either party to the other prior to any renewal date.

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STREET AND HIGHWAY LIGHTING SERVICE

RATE CODES

Highway Lighting Service	80
Overhead Street Lighting Service	83
Ornamental Street Lighting Service	84

TERRITORY

Applicable in all territories served at retail by the Company. Highway Lighting Service is subject to individual review for each point of delivery.

APPLICATION

To any governmental subdivision taking all of its street or highway lighting requirements for service within the Company's service territory under the Company's standard contract for such service, subject to any applicable Riders. Highway Lighting Service is limited to the State of Minnesota, Department of Highways exclusively for public highway lighting.

RATE

Lamp Type & Size Sub rate code	CIS Code	Rate Per Fixture Per Month			
		Option 1 __A	Option 2 __B	Option 3 __C	Option 4 __D
			(Option 2 Closed to New Installation)	Option 3 Closed to New Installation)	
Mercury Vapor Lamps (Closed to New Installations)					
7,000 Lumens (175 watts)	MV175W	\$16.03	\$8.42	\$8.15	
10,000 Lumens (250 watts)	MV250W			\$10.31	
20,000 Lumens (400 watts)	MV400W	\$21.54	\$14.44	\$13.97	
55,000 Lumens (1,000 watts)	MV1000W2			\$25.73	
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	SV100W	\$13.67	\$6.88	\$6.53	
14,000 Lumens (150 watts)	SV150W	\$15.82	\$8.68	\$8.42	
14,000 Lumens (150 watts)	SV150W-P			\$7.05	
20,500 Lumens (200 watts)	SV200W	\$18.45	\$10.21	\$10.08	
23,000 Lumens (250 watts)	SV250W	\$19.90	\$11.18	\$10.88	
45,000 Lumens (400 watts)	SV400W	\$24.44	\$15.17	\$14.31	
Metal Halide Lamps					
28,800 Lumens (400 watts)	MH400W		\$13.32		
Light Emitting Diode (LED)					

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David R. Moeller
Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

4,000 Lumens (54 watts or less) LED54W \$12.77
8,800 Lumens (118 watts or less,
but more than 54 watts) LED118W \$16.65

<u>Lamp Type & Size</u> Sub rate code	<u>CIS Code</u>	<u>Rate Per Fixture Per Month</u>			
		<u>Option 1</u> __A	<u>Option 2</u> __B	<u>Option 3</u> __C	<u>Option 4</u> __D

23,000 Lumens (219 watts or less,
but more than 118 watts) LED219W \$24.60

Monthly Service Charge	Included	Included	Included	\$2.09
Energy Charge - Per kWh	Included	Included	Included	5.391¢
Plus any applicable adjustments				

ADJUSTMENTS

- The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

- There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

- The monthly fuel and purchased energy adjustment per fixture shall be determined as the above fuel and purchased energy adjustment per kWh multiplied by the monthly kWh per fixture shown in the Energy Table below for the respective fixtures.

- There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

- There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

- There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

- There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

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David R. Moeller
Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

8. There shall be added or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

9. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

10. Bills for service to parties within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

BURNING SCHEDULE

Burning schedule is from dusk until dawn each night for a total of approximately 4,200 hours per year.

ENERGY TABLE

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STREET AND HIGHWAY LIGHTING SERVICE

Lamp CIS Code	Days Month		31	28	31	30	31	30	31	31	30	31	30	31
	Burning Hours	Daily Estimates	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
				4,200	462	379	367	302	264	233	252	294	336	401
Monthly kWh usage per fixture by type														
MV175W	2	888	98	80	78	64	56	49	53	62	71	85	92	100
MV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
MV400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MV1000W2	13	4,620	508	417	404	332	290	256	277	323	370	441	479	523
SV100W	1	504	56	46	44	36	32	28	30	35	40	48	52	57
SV150W	2	756	83	68	66	54	48	42	45	53	60	72	78	87
SV150W-P	1	468	51	42	41	34	29	26	28	33	37	45	48	54
SV200W	3	1,140	125	103	100	82	72	63	68	80	91	109	118	129
SV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
SV400W	6	2,016	222	182	176	145	127	112	121	141	161	192	209	228
MH400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
LED54W	1	226	25	20	20	16	14	13	14	16	18	22	23	25
LED118W	1	505	56	46	44	36	32	28	30	35	40	48	52	58
LED219W	3	945	104	85	83	68	59	52	57	66	76	90	98	107

Company shall furnish all electric energy required for service under this schedule.

EQUIPMENT OWNERSHIP, OPERATION AND MAINTENANCE

New Customers with new installations must select Option 1 or Option 4 only for each account served under this schedule. Options 2 and 3 are closed to new installations. Options 1 or 4 are available for Overhead Lighting Service and for Highway or Ornamental Lighting Service.

Option 1

COMPANY TO OWN AND MAINTAIN.

1. The Company shall install, own, operate and provide normal maintenance to all equipment necessary for the above service including the Lighting Equipment beyond the point of attachment to Company's facilities consisting of, but not limited to, the fixture, standard brackets or mast arms not exceeding 14 feet in length, fixture, ballast, photo-electric control, driver, and wiring.

Option 2

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David R. Moeller
Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

1. The Customer shall own all equipment for service under this schedule beyond the point of attachment with Company's facilities. The equipment shall include, but not be limited to, the fixture, standard brackets or mast arms not exceeding 14 feet in length, lamp, ballast, photo-electric control and all minor materials. All customer-owned equipment must meet Company's specifications. In all cases, poles are owned by Company.

2. The Company shall install and operate all equipment necessary for service under this schedule and Company will own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. All Customer owned Lighting Equipment will be installed at Customer's expense. The Company shall perform all normal maintenance on equipment necessary for service under this schedule and furnish and replace all burned out lamps and photo-electric controls. Option 2 is closed to new installations.

Option 3

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's lines used to deliver power to Customer's system. The equipment shall include, but not be limited to, the posts, fixture, mounting bracket, lamp, ballast and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. All Customer owned equipment must meet Company's specifications.

2. The Company shall own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. The Company will furnish and replace all burned out lamps and photo-electric controls and will clean or replace glassware at the time of lamp replacement. Customer shall be responsible for providing replacement glassware. No maintenance will be provided by the Company on customer owned equipment except as specified in a separate agreement. Option 3 is closed to new installations.

Option 4

CUSTOMERS TO OWN AND MAINTAIN:

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's lines used to deliver power to Customer's system. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install in master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. Customer's disconnect switch must meet Company's specifications.

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STREET AND HIGHWAY LIGHTING SERVICE

2. Customer is responsible for all maintenance on all equipment beyond Company's point of attachment. Standard safety procedures followed by the Company on Company-owned lighting facilities shall be followed by Customer when maintaining its lighting equipment. Company reserves the right to disconnect Customer equipment from Company's electrical system if in the Company's opinion Customer's lighting equipment is operated or maintained in an unsafe or improper condition.

CONTRACT PERIOD

Six months, automatically renewable for six month periods unless canceled by 30 days written notice by either party to the other.

SERVICE CONDITIONS

1. Customers will contract for service under this schedule for the number of fixtures of each size installed at the time of the contract.

2. Lights shall be located at sites designated and authorized by Customer. Customer shall provide in writing suitable right-of-way and right-of-occupancy for the facilities which the Company deems necessary to render service under the option chosen. The location shall be readily accessible to Company's equipment used for servicing and/or supplying service under the option chosen. The Company shall have the right to use and occupy the street and highway rights-of-way for the purpose of performing any act of service in connection with service under this schedule.

3. Service will normally be from standard distribution facilities typical of those in the area surrounding the point of service. If it is necessary to provide non-standard distribution facilities, Customer shall pay Company for all costs in excess of standard facility costs.

4. Company will, at Customer's expense, relocate or change the position of any poles, circuits or lights owned by the Company as may be requested in writing and duly authorized by Customer.

5. Company will install at its expense such additional street lights served under Option 1 as may be requested in writing and duly authorized by Customer from time to time during the period of the contract. Company shall provide as standard a service extension of up to the equivalent of one pole span to provide service under this schedule without cost to the Customer. No additional transformer capacity shall be provided as standard for Option 4 Lighting Service. All necessary costs for providing service under this schedule in excess of standard costs shall be paid by Customer.

6. For fixtures which satisfy the conditions as set forth in Options 1 or 2 under Equipment Ownership, Operation and Maintenance, Company will absorb the cost of

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STREET AND HIGHWAY LIGHTING SERVICE

replacing a lamp and photo-electric control devices damaged by a first act of vandalism at each location during each calendar year. In addition, Company will absorb the cost of replacing a lighting unit damaged by a first act of vandalism at each location during each calendar year if served under Option 1.

7. All subsequent and other costs due to vandalism are at Customer's expense. For those locations served under Option 1 or 2, Company will repair equipment (not covered above) damaged by vandalism and will bill customer for appropriate costs.

8. Existing Option 1 Customers who wish to replace Sodium Vapor fixtures that are less than ten years old and not in need of significant maintenance or repair with LED street lights will pay Company the remaining un-depreciated facility cost. Under Option 2, Customers who convert to LED street lights will be assessed a removal fee of \$50 if the mast arm is left up and reused or \$100 if the mast arm is removed and not reused. Under Option 3, the Company's Compatible Unit Estimator (CUE) will be used to estimate the removal fee with a true-up of actual costs once the work is completed.

SCHEDULE OF CHARGES

Applicable in conjunction with Service Conditions paragraph 6.

Labor and vehicle charges per the applicable rate as stated in the Company's Accounting Manual at the time the charge was incurred. Charges for materials used per the Company's cost for lighting replacement equipment plus the then current Materials Handling expense and A&G expense per Company's Accounting Manual.

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PILOT RIDER FOR LARGE LIGHT AND POWER TIME-OF-USE SERVICE

APPLICATION

Applicable to any customer taking service under Large Light and Power Service Schedule 75 with total power requirements in excess of 10,000 kW. All provisions of the Large Light and Power Service Schedule shall apply to the Time-of-Use service under this Rider except as noted below. Participation by customer is voluntary.

RATE MODIFICATION

The monthly rate will be modified as follows:

Demand Charge

For the first 100 kW or less of On-Peak Billing Demand	\$1,200.00
All additional On-Peak Billing Demand (\$/kW)	\$10.90
Off-Peak Demand in excess of On-Peak Billing Demand (\$/kW)	\$4.25

Energy Charge

On-Peak kWh (¢/kWh)	4.195¢
Off-Peak kWh (¢/kWh)	3.133¢

Modified Determination of Billing Demand

On-Peak Billing Demand shall be the kW measured during the 15-minute period of the customer's greatest On-Peak use during the month, as adjusted for power factor, except that On-Peak Billing Demand will not be less than 75% of the greatest adjusted On-Peak demand during the preceding eleven months, nor shall it be less than any Minimum Contract Demand that may be specified in customer's Electric Service Agreement.

The Off-Peak Demand is defined as the difference between the maximum kW measured during the 15-minute period of the customer's greatest use (On-Peak or Off-Peak) during the current month, as adjusted for power factor, and the On-Peak Billing Demand.

SERVICE CONDITIONS

1. On-Peak and Off-Peak Periods Defined: The On-Peak time period shall be defined as 7:00 a.m. to 10:00 p.m., Monday through Friday, inclusive, excluding holidays. The Off-Peak time period shall include all other hours. Holidays shall be those days nationally designated and celebrated as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.

2. At the end of the first year following the initial date when any customer takes service under this Rider, the applicability, rate modification, and service conditions will be

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PILOT RIDER FOR LARGE LIGHT AND POWER TIME-OF-USE SERVICE

evaluated for potential modification. The Rider will continue in effect after the initial year until it has been modified or cancelled based on the evaluation of the pilot.

3. The term of service under this Rider shall be no less than one year, unless the pilot offering is terminated prior to the conclusion of customer's first year of service.

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Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL SERVICE

RATE CODES

Residential - General	20
Residential - Space Heating	22
Residential - Seasonal	23

APPLICATION

To electric service for all domestic uses for residential customers in single-family dwellings subject to Company's Residential Service Rules, Extension Rules, Electric Service Regulations and any applicable Riders. There is a maximum of one Residential – General or Residential – Space Heating service per customer. Any additional residence shall be provided service at Residential - Seasonal rate.

A dwelling will be considered to be occupied seasonally when occupied as customer's principal dwelling place for eight months or less each year.

TYPE OF SERVICE

Single phase, 60 hertz, at 120 to 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

	<u>General & Space Heating</u>	<u>Seasonal</u>
Service Charge	\$8.00	\$10.00
0 kWh to 400 kWh	7.423 <u>5.272</u> ¢	
401 kWh to 800 kWh	9.767 <u>7.616</u> ¢	
801 kWh to 1,200 kWh	12.113 <u>9.962</u> ¢	
Over 1,200 kWh	14.653 <u>12.502</u> ¢	
All kWh (¢/kWh)		<u>8.702</u> 10.853 ¢

Plus any applicable Adjustments.

MINIMUM CHARGE

The Minimum Charge (monthly) shall be the Service Charge plus any applicable Adjustments.

In the case of Seasonal Service, the Minimum Charge (annually) shall not be less than the guaranteed annual revenue based on Company's Extension Rules.

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Approved by: Marcia A. Podratz David R. Moeller
~~Marcia A. Podratz~~ ~~David R. Moeller~~
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1.2.~~ There shall be added to or deducted from the monthly billing, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the ~~Pilot~~ Rider for Customer Affordability of Residential Electricity (CARE).

~~6.7.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~7.8.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~8.9.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~9.10.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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~~Marcia A. Podratz~~ David R. Moeller
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL SERVICE

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

For Seasonal Residential Service, the initial contract period is one year or such longer period as may be required under an extension agreement, with one year renewal periods.

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~~Marcia A. Podratz~~ David R. Moeller
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

RATE CODES

21

APPLICATION

To the interruptible electric service requirements of all-year Residential Customers where a non-electric source of energy is available to satisfy these requirements during periods of interruption. Service is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Single phase, 60 hertz, at 120 to 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge \$8.00

Energy Charge
All kWh (per kWh) ~~7.563~~ 5.412¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

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~~Marcia A. Pedratz David R. Moeller~~
~~Director - Rates Senior Attorney & Director of Regulatory Compliance~~

RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The primary energy source for the Company approved Dual Fuel installation must be electric. The backup heating source must be a non-electric, externally vented heating system, of sufficient size, capable of continuous operation. Under no circumstances will firm electric service or a back-up generator qualify as the secondary or back-up energy source.

2. The interruptible load of the approved Dual Fuel installation shall be separately served and metered and shall at no time be connected to facilities serving customer's firm load.

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Director - Rates Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

3. The duration and frequency of interruptions shall be at the discretion of Company. Interruption will normally occur at such times:

- (a) when Company is required to use oil-fired generation equipment or to purchase power that results in equivalent production cost,
- (b) when Company expects to incur a new system peak,
- (c) at such other times when in Company's opinion the reliability of the system is endangered,
- (d) when Company performs necessary testing for certification of interruptibility of customers' loads.

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer must be prepared to supply all of the interruptible load from an alternative energy source for up to 30% of customer's Dual Fuel requirements during any annual period.

6. Company will provide, at customer's expense, and customer will install, as directed by Company, a load-break switch or circuit breaker. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's remote control equipment.

7. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.

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Director - Rates Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

RATE CODES

24

APPLICATION

To electric service for residential customers for controlled energy storage or other loads which will be energized only for the time period between 11 p.m. and 7 a.m. daily. Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, 60 hertz, voltages of 120 to 240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge \$8.00

Energy Charge
All kWh (per kWh) ~~6.769~~4.618¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resource adjustment determined in accordance with the Rider for Renewable Resources.

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~~Marcia A. Podratz David R. Moeller~~
~~Director - Rates Senior Attorney & Director of Regulatory Compliance~~

RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The controlled load shall be separately served and metered and shall at no time be connected to facilities serving customer's other loads.
2. The total connected controlled load shall not exceed 100 kW.
3. Any controlled energy storage load to which this service schedule applies must have sufficient capacity to satisfy the customer's energy needs during the non-energized period.
4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

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 Director - Rates Senior Attorney & Director of Regulatory Compliance

RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

5. Customer's load shall be controlled by a switching device approved or supplied by Company and paid for and installed by Customer. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's control equipment.

6. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

RATE CODES

28

APPLICATION

To electric service for residential customers for the sole purpose of recharging electric vehicle(s). Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, 60 hertz, voltages of 120 to 240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

<u>Service Charge</u>	\$4.25
<u>Off-Peak Energy Charge</u> All kWh (per kWh)	3.903 <u>1.752</u> ¢
<u>On-Peak Energy Charge</u> All kWh (per kWh)	11.763 <u>9.612</u> ¢

Plus any applicable Adjustments.

RENEWABLE ENERGY OPTION

Customers taking service under this schedule have the option to purchase energy from the Company's current mix of energy supply sources at the rates shown above or entirely from renewable energy sources. "Renewable energy" means electricity generated through use of any of the following resources: wind, solar, geothermal, hydro, trees or other vegetation, or landfill gas. Participation by the Customer is voluntary, and Customers who elect this option shall commit to renewable energy for no less than one year. The rate for the renewable energy option will include a 2.5¢ per kWh surcharge in addition to the per kWh energy charges shown above.

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

~~4.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resource adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 25 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The Residential Off-Peak Electric Vehicle Service load shall be separately served and metered and shall at no time be connected to facilities serving Customer's other loads.

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RESIDENTIAL ELECTRIC VEHICLE SERVICE

To be eligible for this rate, Customer must also take Residential Service under the General, Space Heating, or Seasonal rate.

2. The total connected off-peak load shall not exceed 100 kW.
3. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.
4. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate.
5. On-Peak and Off-Peak Energy Defined: The On-Peak Energy shall be defined as energy used from 8:00 a.m. to 10:00 p.m., Monday through Friday, inclusive, excluding holidays. The Off-Peak Energy shall include energy used in all other hours. Holidays shall be those days nationally designated and celebrated as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas.

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GENERAL SERVICE

RATE CODES

25

APPLICATION

To any customer's electric service requirements when the total electric requirements are supplied through one meter. Service shall be delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery. Service hereunder is limited to Customers with total power requirements of less than 10,000 kW and is subject to Company's Electric Service Regulations and any applicable Riders.

Applicable to multiple metered service only in conjunction with the respective Rider for such service.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

CUSTOMERS WITHOUT A DEMAND METER

Service Charge \$12.00

Energy Charge for all kWh ~~10.204~~ 8.008¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$12.00

Demand Charge for all kW \$6.50

Energy Charge for all kWh ~~7.619~~ 5.423¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

The appropriate service charge plus any applicable Adjustments, however, in no event will the Minimum Charge (Monthly) for three phase service be less than \$25.00 nor will the

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GENERAL SERVICE

Demand Charge per kW of Billing Demand be less than the Minimum Demand specified in customer's contract.

Plus any applicable Adjustments.

HIGH VOLTAGE SERVICE

Where customer contracts for service delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the monthly bill, before Adjustments, will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where customer contracts for service delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the monthly bill, before Adjustments, will be further subject to a discount 0.350¢ per kWh of Energy.

High Voltage Service shall not be available from the Low Voltage Network Area as designated by Company.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

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GENERAL SERVICE

- ~~6.7.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.
- ~~7.8.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.
- ~~8.9.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.
- ~~9.10.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

DETERMINATION OF THE BILLING DEMAND

When customer's use exceeds 2500 kWh for three consecutive months or where the connected load indicates customer's demand may be greater than 10 kW, the customer may be placed on a demand rate.

The Billing Demand will then be the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, but not less than the minimum demand specified in customer's contract.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

RATE CODES

26

TERRITORY

Applicable to all Rate Areas.

APPLICATION

To the interruptible electric service requirements of Commercial/Industrial Customers where an alternative source of energy is available to satisfy these requirements during periods of interruption. Service shall be delivered at one point from facilities of adequate type and capacity and shall be metered at (or compensated to) the voltage of delivery. Service is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Single phase, three phase, or single and three phase, 60 hertz, at low voltage (voltage level lower than that available from Company's 13,000 volt system) or high voltage (voltage level equal to or greater than that available from Company's 13,000 volt system).

RATE (Monthly)

Service Charge

Low Voltage Service	\$12.00
High Voltage Service	\$12.00

Energy Charge

Low Voltage Service	7.563 <u>5.367</u> ¢ per kWh
High Voltage Service	6.982 <u>4.786</u> ¢ per kWh

Plus any applicable Adjustments.

The High Voltage Service Rate is applicable where service is delivered and metered at (or compensated to) the available high voltage level (13,000 volt system or higher).

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

Not less than one year or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The primary energy source for the Company approved Dual Fuel installation must be electric. An approved Dual Fuel installation requires that the secondary or back-up energy source be capable of continuous operation. Under no circumstances will firm electric service or a back-up generator qualify as the secondary or back-up energy source.

2. The interruptible load of the approved Dual Fuel installation shall be separately served and metered and shall at no time be connected to facilities serving customer's firm load.

3. The duration and frequency of interruptions shall be at the sole discretion of the Company. Interruption will normally occur at such times:

- (a) when Company is required to purchase or generate power at a cost higher than customer's energy charge,
- (b) when Company expects to incur a system peak,
- (c) when in Company's opinion the reliability of the system is endangered, or
- (d) when Company performs necessary testing of interruptibility of customer's loads.

Interruptions shall normally occur for reliability-related needs before interruptions for any certified interruptible loads for Large Power, Large Light and Power, and General Service.

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer must be prepared to supply all of the interruptible load from an alternative energy source for up to 30% of customer's Dual Fuel requirements during any annual period.

6. The customer will install, at its expense, a load-break switch, circuit breaker, or other means of allowing Company to automatically interrupt customer's Dual Fuel load by sending a command or signal. The Company reserves the right to inspect and approve the installation to ensure compliance and consistency with Company's interruption system. If Company's system cannot support automatic interruption, interruption shall be made in accordance with Service Condition 8. Customer must provide a continuous 120 volt AC

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COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

power source at Company's control point for operation of Company's remote control equipment.

7. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate. Customers who have guaranteed annual revenue commitments to support line extension costs under a firm rate schedule that are not fully satisfied before switching to Dual Fuel service may be required to have their extension cost contributions recalculated.

8. Upon receiving a control signal from the Company, the Customer must shed its interruptible load in ten (10) minutes or less, and for a duration as required by the Company, whenever the Company determines such interruption is necessary. Customers with existing provisions in their Electric Service Agreements for longer notice before interruption shall continue to have thirty (30) minutes to shed their interruptible loads through the term of their existing contracts or December 31, 1998, whichever is later.

9. Those customers who fail to interrupt their interruptible load after being notified to do so by the Company shall be responsible for all costs incurred by the Company due to such failure, including but not limited to penalties assessed the Company by the Midcontinent Independent System Operator (MISO) in the event the Company experiences a system capacity deficiency. Those costs shall be charged on a pro rata basis to all customers who did not interrupt as requested. Such customers shall also be billed as follows:

- (a) The first failure to interrupt shall result in the Customer being billed for the entire month on the standard applicable General Service or Large Light and Power Service Schedule (thereby not receiving an interruptible discount).
- (b) If a second such failure to interrupt occurs, in addition to billing as specified in (a) above, the Company reserves the right to discontinue customer's service under the Dual Fuel Interruptible Electric Service Schedule.

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COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

RATE CODE

27

APPLICATION

To electric service for commercial/industrial customers for controlled energy storage or other loads which will be energized only for the time period between 11 p.m. and 7 a.m. daily. Service is subject to Company's Electric Service Regulations and any applicable riders.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at low voltage (voltage level lower than that available from Company's 13,000 volt system) or high voltage (voltage level equal to or greater than that available from Company's 13,000 volt system), supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge

High Voltage Service	\$12.00
Low Voltage Service	\$12.00

Energy Charge

High Voltage Service	6.188 3.992¢ per kWh
Low Voltage Service	6.769 4.573¢ per kWh

Plus any applicable Adjustments.

The High Voltage Service Rate is applicable where service is delivered and metered at (or compensated to) the available high voltage level (13,000 volt system or higher).

MINIMUM CHARGE (Monthly)

The Minimum Charge shall be the Service Charge plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4-2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

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COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Not less than thirty days or such longer period as may be required under an Electric Service Agreement.

SERVICE CONDITIONS

1. The controlled load shall be separately served and metered and shall at no time be connected to facilities serving customer's other loads.
2. The total connected controlled load shall not exceed 200 kW.
3. Any controlled energy storage load to which this service schedule applies must have sufficient capacity to satisfy the customer's energy needs during the non-energized period.

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COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

4. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service except in the case of gross negligence on the part of the Company.

5. Customer's load shall be controlled by a switching device approved or supplied by Company and paid for and installed by Customer. Customer must provide a continuous 120 volt AC power source at Company's control point for operation of Company's control equipment.

6. The rate contemplates that this service will utilize existing facilities with no additional major expenditures. Customer shall pay Company the installed cost of any additional facilities required which are not supported by this rate. Customers who have guaranteed annual revenue commitments to support line extension costs under a firm rate schedule that are not fully satisfied before switching to Controlled Access Electric Service may be required to have their extension cost contributions recalculated.

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LARGE LIGHT AND POWER SERVICE

RATE CODES

75

APPLICATION

To the entire electric service requirements on customer's premises delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery.

Service hereunder is limited to Customers with total power requirements of less than 50,000 kW and is subject to Company's Electric Service Regulations and any applicable Riders. Customers with total power requirements in excess of 10,000 kW shall be served under this rate only where customer and Company have executed an electric service agreement having an initial minimum term of ten (10) years with a minimum cancellation provision of four (4) years.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

Demand Charge

For the first 100 kW or less of Billing Demand \$1,200.00
All additional kW of Billing Demand (\$/kW) \$10.50

Energy Charge

All kWh (¢/kWh) ~~5.811~~ 3.669¢

Plus any applicable Adjustments.

HIGH VOLTAGE SERVICE

Where service is delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the Demand Charge will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where service is delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the Energy Charge will also be subject to a discount of 0.350¢ per kWh of Energy.

High voltage service shall not be available from the Low Voltage Network Area as designated by Company.

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LARGE LIGHT AND POWER SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

~~6.7.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~7.8.~~ There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~8.9.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~9.10.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

DETERMINATION OF THE BILLING DEMAND

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LARGE LIGHT AND POWER SERVICE

Billing Demand is the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, except that the Billing Demand will not be less than the lower of:

- a) 75% of the greatest adjusted demand during the preceding eleven months, or
- b) The greatest adjusted demand during the preceding eleven months minus 100 kW.

However, the Billing Demand shall not be less than the minimum demand specified in the customer's contract.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

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COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

RATE CODES

73

APPLICATION

To the electric service requirements of a customer requiring service for no less than 2,000 kW and no more than 50,000 kW of connected load, where such electric service requirements are subject to effective competition. Specifically, a customer is subject to effective competition, per Minnesota Statutes, Section 216B.162, if the customer is located within the Company's assigned service area as determined under Minnesota Statutes, Section 216B.39, and if the customer has the ability to obtain its energy requirements from an energy supplier that is not regulated by the Commission under Minnesota Statutes, Section 216B.16.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at the voltage level specified in customer's contract.

RATE

To be specified in customer's contract.

TERMS AND CONDITIONS

1. The minimum rate under this schedule shall recover at least the incremental cost of providing the service, including the cost of additional capacity that is to be added while the rate is in effect and any applicable on-peak or off-peak differential.
2. The maximum possible rate reduction under this rate schedule shall not exceed the difference between the Company's Large Light and Power Service Rate Schedules 75 and the cost to the customer of the lowest cost competitive energy supply.
3. The term of a contract for a customer who elects to take service under this schedule must be no less than one year and no longer than five years.
4. The Company, within a general rate case, is allowed to seek recovery of the difference between the standard Large Light and Power Service Rate Schedules 75 and the competitive rate times the usage level during the test year period.
5. A rate under this competitive rate schedule shall meet the conditions of Minnesota Statutes, Section 216B.03, for other customers in this same customer class.

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Director - Rates Senior Attorney & Director of Regulatory Compliance

COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

6. A rate under this schedule shall not compete with district heating or cooling provided by a district heating utility as defined by Minnesota Statutes, Section 216B.166, subdivision 2, paragraph (c).

7. A rate under this schedule may not be offered to a customer in which the Company has a financial interest greater than 50 percent.

8. The rate pursuant to this tariff may take effect on an interim basis after the filing of the contract with the Minnesota Public Utilities Commission and upon the date specified. If the Commission does not approve the rate, Minnesota Power may seek to recover the difference in revenues between the interim competitive rate and the standard tariff from the customer who was offered the competitive rate. While an interim competitive rate is in effect, the difference between rates under the competitive rate and rates under the standard tariff for that class are not subject to recovery or refund.

REGULATION AND JURISDICTION

The Commission has the authority to approve, modify or reject a rate under this schedule. If the Commission approves the competitive rate, it becomes effective as agreed to by the Company and the customer. If the competitive rate is modified by the Commission, the Commission shall issue an order modifying the competitive rate subject to the approval of the Company and the customer. Each party has ten days in which to reject the proposed modification. If no party rejects the proposed modification, the Commission's order becomes final. If either party rejects the Commission's proposed modification, the Company, on its behalf or on the behalf of the customer, may submit to the Commission a modified version of the Commission's proposal. The Commission shall accept or reject the modified version within 30 days. If the Commission rejects the competitive rate, it shall issue an order indicating the reasons for the rejection.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ There shall be added to the bill the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~2.3.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

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LARGE POWER SERVICE

RATE CODES

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APPLICATION

The Large Power Service Schedule ("LP Schedule") applies to electric service delivered from existing Company facilities of adequate type and capacity, where Customer and Company have executed an Electric Service Agreement ("ESA") agreeing to the purchase and sale of Large Power Service and supplementing the terms and conditions of Large Power Service set forth in this LP Schedule.

Service under this LP Schedule is also subject to Company's Electric Service Regulations as well as all riders and other tariffs applicable to Large Power Service.

Customer shall not be entitled to purchase any service from the Company under this LP Schedule for purposes of resale to any other entity or to the Company.

ELECTRIC SERVICE AGREEMENTS

Every ESA and every amendment or modification of an ESA must be approved by the Minnesota Public Utilities Commission ("Commission") as a supplemental addition to this LP Schedule.

At a minimum, every ESA shall include the following:

- (a) The connection point(s) of Company's and Customer's equipment at which Customer takes service ("Points of Delivery");
- (b) The voltage level(s) at which service will be supplied;
- (c) A method for determining Firm Demand (as defined below) in each month of the term of the ESA;
- (d) An Incremental Production Service Threshold as defined in the Rider for Large Power Incremental Production Service, as applicable;
- (e) A confidentiality agreement; and
- (f) Any terms or conditions that differ from or are additional to the terms and conditions specified in this LP Schedule or in any rider or tariff applicable to Large Power Service.

Unless otherwise specifically approved by the Commission, each ESA shall have an initial minimum term of ten (10) years and shall continue in force until either party gives the other party written notice of cancellation at least four years prior to the time such cancellation shall be effective.

The effective date of each ESA shall be subject to approval by the Commission.

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LARGE POWER SERVICE

No Commission approval of any ESA shall act to prevent the Commission from later increasing or decreasing any of the rates or charges contained in this LP Schedule, any Rider or any other tariff applicable to Large Power Service. Nor shall any Commission approval of any ESA exempt any Customer from the applicability of any such increased or decreased charges.

An ESA shall be binding upon the Company and the Customer and their successors and assigns, on and after the effective date of the ESA; provided, however, that neither party may assign that ESA or any rights or obligations under the ESA without the prior written consent of the other party, which consent shall not unreasonably be withheld.

Inasmuch as all ESAs will contain confidential information with respect to Customer electric usage levels and other proprietary information of both the Customer and the Company ("Confidential Information"), all ESAs are to be marked as trade secret in their entirety for purposes of the Minnesota Government Data Practices Act. For this purpose, Confidential Information includes all disclosures, information and materials, whether oral, written, electronic or otherwise, relating to the business of either the Customer or the Company, that is not generally available to the trade or the public. The ESA may specifically expand this definition to ensure Customer-specific and/or Company-specific protections are in place. Because use and disclosure of Confidential Information requires a written agreement, the Company and the Customer will agree to such use and disclosure in each ESA.

For purposes of ESAs capitalized terms used in this LP Schedule shall have the same meaning as capitalized terms in the ESA.

For purposes of ESAs, the term "Holidays" shall mean New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas Eve Day, Christmas Day, and New Year's Eve Day.

For purposes of ESAs, the term "Office" shall mean the Minnesota Office of Energy Security or its successor organization.

TYPE OF SERVICE

Unless otherwise agreed in an ESA, Large Power Service shall be three phase, 60 hertz, at Company's available transmission voltage of at least 115,000 volts. Customer may specifically request to take all or any portion of its Large Power Service at Company's available high voltage of 13,000 through 69,000 volts, and such lower voltage deliveries may be subject to a Service Voltage Adjustment as described below.

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LARGE POWER SERVICE

BASE RATES (MONTHLY)

The following charges (as modified by the Adjustments described below) shall apply to all service under this LP Schedule and the ESAs (collectively, the "Base Rates"):

Demand Charge

A single application for the first 10,000 kW or less of Firm Demand \$250,087

All additional kW of Firm Demand (\$/kW) \$24.96

Energy Charge

All Firm Energy kWh (ϕ /kWh) (All On-Peak and Off-Peak) ~~2.7780~~ 0.678 ϕ

Excess Energy Charge

All kWh of Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost as described more fully in paragraphs 2 and 3 under "ENERGY."

ADJUSTMENTS

Company may modify Base Rates by the following adjustments:

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ Service Voltage Adjustment. Unless otherwise agreed in the ESA, where service delivery voltage is at Company's available high voltage of 13,000 through 69,000 volts, Company will increase the Demand Charge by \$1.75 per kW of Firm Demand for that portion of Firm Demand taken at 13,000 through 69,000 volts.

~~2.3.~~ Fuel and Purchased Energy Adjustment. A fuel and purchased energy adjustment will be determined in accordance with the Rider for Fuel and Purchased Energy Adjustment and a conservation program

~~3.4.~~ Conservation Adjustment. Adjustment will be determined in accordance with the Rider for Conservation Program Adjustment.

~~4.5.~~ Transmission Adjustment. A transmission investment adjustment will be determined in accordance with the Rider for Transmission Cost Recovery.

~~5.6.~~ Renewable Resource Adjustment. A renewable resources adjustment will be determined in accordance with the Rider for Renewable Resources.

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LARGE POWER SERVICE

~~6.7.~~ CARE Low-Income Affordability Program Surcharge: There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

~~7.8.~~ Boswell 4 Plan Adjustment: There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~8.9.~~ Solar Energy Adjustment: There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~9.10.~~ Taxes and Assessments. An adjustment for the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~10.11.~~ Franchise Fee. An adjustment for customers located within the corporate limits of the applicable city as specified in the applicable Rider for the city's Franchise Fee.

MEASURED AND ADJUSTED DEMAND

The measured demand ("Measured Demand") in the month shall be the sum of kW measured from all of the Points of Delivery specified in the ESA during the 15-minute period of Customer's greatest use during the month.

The adjusted demand ("Adjusted Demand") in the month shall be the Measured Demand increased by one kilowatt for each 20 kvar of excess reactive demand. Excess reactive demand means the amount by which the maximum 15-minute measured kvar during the month exceeds 50% of the first 20,000 kW of Measured Demand plus 25% of all additional kW of Measured Demand.

This provision shall supersede all references to Metered Demand, Measured Demand, and Adjusted Demand in the Customers' ESAs.

DEMAND

1. Firm Demand. The Customer's ESA specifies the amount of Firm Demand in any billing month. In general, the Firm Demand will be based on amount specified, selected, nominated, determined or agreed upon in the Customer's ESA. Regardless of how the ESA describes or calculates the Customer's contractual demand in any billing month for purposes of applying the Demand Charge, this amount shall be deemed to be the Customer's Firm Demand for purposes of this LP Schedule and the application of the Demand Charge.

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LARGE POWER SERVICE

2. Demands in Excess of Firm Demand. Company will endeavor to serve Customer requirements for power in excess of Firm Demand, but Company has no responsibility or liability whatsoever for failing to provide any power in excess of Firm Demand.

DEMAND NOMINATIONS

1. Demand Nomination increases. For all Customers who notify the Company periodically throughout the year per the terms of their respective ESAs, need to be made by the last business day excluding weekends and Holidays prior to the nominating deadlines specified in the Customers' ESAs. This provision shall supersede all references to all language in Customers' ESAs relating to nomination notice deadlines.

ENERGY

1. Firm Energy. Firm Energy shall mean the total electric consumption of the Customer measured in kilowatt-hours ("kWh") in each hour of the billing month, regardless of whether it is taken during peak or off peak hours, but limited to no more than the Customer's Firm Demand in any hour. In general, the amount of Firm Energy billed in each hour of the billing month will be equal to the amount of Firm Demand in that month unless modified by terms in the Customer's ESA.

2. Excess Energy. Excess Energy shall be the kWh of energy taken by Customer in each hour of the month in excess of the allowable Firm Energy levels specified in the Customer's ESA in that hour, unless the Customer takes such energy under the Rider for Large Power Incremental Production Service or another Rider applicable to Large Power Service and available to the Customer pursuant to its ESA.

3. Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in month. Company's Incremental Energy Cost shall be determined each hour of the month and shall include fuel costs and variable operation and maintenance expenses for generating or purchasing the excess energy. Company's Incremental Energy Cost will be the highest cost energy after assigning lower cost energy to: all firm retail and wholesale customer requirements; all intersystem (pool) sales that involve capacity on a firm or participation basis; and all interruptible sales to Large Power, Large Light and Power, and General Service customers; but not including sales for Incremental Production Service.

PAYMENT

All bills for Large Power Service are due and payable at any office of Minnesota Power 15 days following the date the Company renders the bill or such later date as may be specified on the bill unless the Customer is subject to the Rider for Expedited Billing Procedures—Large Power Class or Customer specifically agrees to be subject to the Rider for Expedited Billing Procedures—Large Power Class in the ESA. Payments must be received by Minnesota Power on or before such due date and shall not be considered as

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LARGE POWER SERVICE

payment received until the funds are usable or collectible by Minnesota Power. If Company does not receive payment on or before the due date printed on the bill, the bill shall be past due and delinquent.

LARGE POWER SURCHARGE

For new customers with Firm Demand in excess of 50,000 kW in any twenty-four month period, or for existing customers with increases in Firm Demand of more than 50,000 kW in any twenty-four month period, the additional Firm Demand in excess of 50,000 kW will be subject to a Large Power Surcharge. The Company will assess the Large Power Surcharge for a period of five years from the date the Customer executes a binding Commitment Agreement to take the power. The Large Power Surcharge will cover the additional cost to Company of obtaining the necessary power supply. The Large Power Surcharge shall be the sum of a Capacity Portion and Energy Portion as described below. If the sum is negative then the Large Power Surcharge shall be zero.

Capacity Portion

For each kW of Firm Demand subject to surcharge Company shall add to the Demand Charge the excess of Company's Large Power Surcharge Supply Capacity Costs per kW over Company's Basic Capacity Cost. Company's Large Power Surcharge Supply Capacity Costs per kW will be: 1) Company's cost per kW as purchased from its power suppliers with appropriate adjustments for reserve requirements/replacement power, transmission losses and coincidence factor; 2) The Company's estimated annual Revenue Requirements per kW associated with Company's power production facilities added or refurbished to supply the power; or 3) A blend of the above costs if more than one source is used to supply the power. Company's Basic Capacity Costs per kW will be Company's estimated annual Revenue Requirements associated with Company-owned power production facilities and with Company firm power purchases, exclusive of the estimated annual Revenue Requirements associated with any such purchases or Company-owned power facilities which are covered by a Large Power Surcharge, divided by the aggregate coincidental kilowatts of all customer loads serviced by such generating capacity and purchased capacity, adjusted for estimated transmission losses and load coincidence factor.

Company will advise Customer of the Large Power Surcharge Supply Capacity Costs as soon the Company has made arrangements for the capacity and Company will advise Customer of the Company's Basic Capacity Costs 30 days prior to the beginning of each calendar year in which the surcharge may be applied.

Energy Portion

For each kWh delivered to Customer subject to surcharge, Company shall add to the Energy Charge the excess of Company's Actual Large Power Surcharge Supply Energy Costs per kWh over the Company's Basic Energy Costs.

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LARGE POWER SERVICE

Company's Actual Large Power Surcharge Supply Energy Costs per kWh will be determined monthly as Company's actual cost per kWh for the energy: 1) Generated by and associated with the Purchased Capacity, adjusted for estimated transmission losses; 2) Generated by and associated with Company's power production facilities added or refurbished to supply the power; or 3) A blend of the above costs if more than one source is used to supply the power. Company's Basic Energy Costs per kWh will be Company's estimated annual Revenue Requirements for fuel and associated operation and maintenance expenses at Company-owned power production facilities, and for energy associated with firm power purchases and economy purchases (but exclusive of all emergency and scheduled outage energy, and exclusive of any energy associated with Purchased Capacity and exclusive of energy provided by Company-owned power facilities covered by a Large Power Surcharge) divided by the aggregate associated kilowatt-hours, adjusted for estimated transmission losses.

Company will advise Customer of the approximate Large Power Surcharge Supply Energy Costs and Company's Basic Energy Costs 30 days prior to the beginning of each calendar year in which the surcharge may be applied.

Where the above surcharge is applicable to only a portion of the electric service taken at one point of delivery, the kWh subject to surcharge shall be the total kWh delivered in the month multiplied by the ratio of the Capacity subject to surcharge over the total Firm Demand at that point of delivery.

OPERATING PRACTICES

The Company shall employ operating practices and standards of performance in providing service under this LP Schedule that conform to those recognized as sound practices within the utility industry. In making deliveries of power under this LP Schedule, Company shall exercise such care as is consistent with normal operating practice by using all available facilities to minimize and smooth out the effects of sudden load fluctuations or other variance in voltage or current characteristics that may be detrimental to Customer's operations.

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NON-CONTRACT LARGE POWER SERVICE

RATE CODES

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APPLICATION

To the entire electric service requirements of 10,000 kW or more on customer's premises delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery for customers whose power requirements are of a relatively short-term nature or of a level of uncertainty which prevents long-term contractual commitment under the normally applicable terms and conditions for service under Company's Large Power Service Schedule.

Service hereunder is subject to Company's Electric Service Regulations and any applicable Riders.

TYPE OF SERVICE

Three phase, 60 hertz, at Company's available transmission voltage of 115,000 volts. Service may also be taken at Company's available high voltage of 13,000 through 69,000 volts subject to billing in conjunction with a Service Voltage Adjustment.

RATE (Monthly)

Demand Charge

For the first 10,000 kW or less of Non-Contract Billing Demand \$300,104

All additional kW of Non-Contract Billing Demand (\$/kW) \$29.95

Energy Charge

All Firm Energy kWh (¢/kWh) (All On-Peak and Off-Peak) ~~2.7780~~ 0.678¢

All kWh of Non-Contract Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in accordance with the conditions set forth in paragraph 2 under "NON-CONTRACT ENERGY."

Plus any applicable Adjustments.

SERVICE VOLTAGE ADJUSTMENT

Where service delivery voltage is at Company's available high voltage of 13,000 through 69,000 volts, the Demand Charge will be increased by \$2.10 per kW of Non-Contract Billing Demand.

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NON-CONTRACT LARGE POWER SERVICE

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment. Such Fuel Adjustment shall be applicable to Customer's Non-Contract Firm Energy only.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

~~5.6.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~6.7.~~ Solar Energy Adjustment: There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~7.8.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~8.9.~~ Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

MEASURED AND ADJUSTED DEMAND

The measured demand ("Measured Demand") in the month shall be the kW measured from all of the Points of Delivery specified in the ESA during the 15-minute period of Customer's greatest use during the month

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The adjusted demand ("Adjusted Demand") in the month shall be the Measured Demand increased by one kilowatt for each 20 kvar of excess reactive demand. Excess reactive demand means the amount by which the maximum 15-minute measured kvar during the month exceeds 50% of the first 20,000 kW of Measured Demand plus 25% of all additional kW of Measured metered Demand.

This provision shall supersede all references to Metered Demand, Measured Demand, and Adjusted Demand in the Customers' ESAs.

NON-CONTRACT BILLING DEMAND

Non-Contract Billing Demand in the month is the greater of the current month's Measured Demand or the largest Measured Demand taken under Schedule 78 in the previous 12 months.

NON-CONTRACT ENERGY

1. Non-Contract Firm Energy in the month shall be the total kWh of energy taken by Customer in the month multiplied by the ratio of Non-Contract Billing Demand in the previous month to the current month's Measured Demand. Such ratio shall not exceed one.

2. Non-Contract Excess Energy shall be the kWh of energy taken by Customer in the billing month which is in excess of the Non-Contract Firm Energy. Such Excess Energy shall be billed at 110% of the Company's Incremental Energy Cost in month. Company's Incremental Energy Cost shall be determined each hour of the month and shall include fuel costs and variable operation and maintenance expenses for generating or purchasing the excess energy, and will be the highest cost energy after assigning lower cost energy to all firm retail and wholesale customer requirements, to all intersystem (pool) sales which involve capacity on a firm or participation basis, and to all economy and other similar transactions which may be entered into by Company from time to time.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

PURCHASED POWER SURCHARGE

When the Company does not have sufficient capacity to serve Customer's power requirements, a Purchased Power Surcharge will be assessed to cover the additional costs

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NON-CONTRACT LARGE POWER SERVICE

of purchasing such power provided Company is able to purchase and make available power for Customer's use. The Purchased Power Surcharge shall be the sum of a Capacity Portion and Energy Portion as described below, except if such sum is negative, then the Purchased Power Surcharge shall be zero.

Capacity Portion

For each kW of Non-Contract Billing Demand, there shall be added the excess of Company's Purchased Capacity Costs per kW over Company's Basic Capacity Cost. Company's Purchase Capacity Costs per kW will be Company's cost per kW as purchased from its power suppliers with appropriate adjustments for reserve requirements/replacement power, transmission losses and coincidence factor. Company's Basic Capacity Costs per kW will be Company's estimated annual Revenue Requirements associated with Company-owned power production facilities and with Company firm power purchases, exclusive of any such purchases which are covered by a Large Power Surcharge, divided by the aggregate coincidental kilowatts of all customer loads serviced by such generating capacity and purchased capacity, adjusted for estimated transmission losses and load coincidence factor.

Company will advise Customer of the Purchased Capacity Costs as soon as arrangements have been made for such capacity and Company will advise Customer of the Company's Basic Capacity Costs 30 days prior to the beginning of each calendar year in which the surcharge will be applied.

Energy Portion

For each kWh of Non-Contract Firm Energy delivered to Customer, there shall be added the excess of Company's Actual Purchased Energy Costs per kWh over the Company's Basic Energy Costs. Company's Actual Purchased Energy Costs per kWh will be determined monthly as Company's actual cost per kWh for the energy generated by and associated with the Purchased Capacity, adjusted for estimated transmission losses.

Company's Basic Energy Costs per kWh will be Company's estimated annual Revenue Requirements for fuel and associated operation and maintenance expenses at Company-owned power production facilities, and for energy associated with firm power purchases and economy purchases (but exclusive of all emergency and scheduled outage energy, and exclusive of any energy associated with Purchased Capacity) divided by the aggregate associated kilowatt-hours, adjusted for estimated transmission losses.

Company will advise Customer of the approximate Purchased Energy Costs and Company's Basic Energy Costs 30 days prior to the beginning of each calendar year in which the surcharge will be applied.

SERVICE CONDITIONS

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NON-CONTRACT LARGE POWER SERVICE

Service is available under this Schedule to customers who otherwise qualify but who elect not to take service under Company's Large Power Service Schedule 74 for which a ten (10) year contract term and at least a four (4) year contract cancellation provision are required by Company. Such service shall be subject to all provisions of this Schedule. The initial Non-Contract Demand of Power (Initial Demand) for such an electric service agreement shall be the Measured Demand which Customer established during the first full month of service.

A customer taking service on Schedule Non-Contract Large Power Service 78 may not take service from Schedule 74 without a one (1) year written notice to Company, unless the Company agrees otherwise. Additionally, unless Company has agreed otherwise, customers who have given notice of cancellation of a contract for service on Large Power Service Schedule 74 and have chosen to reinstate that contract less than 12 months prior to the effective date of cancellation shall receive service under this schedule. Such service will be provided from the effective date of the reinstatement and will continue until 12 months have elapsed from the date the reinstatement was executed.

Company recognizes that Customer's demand may, from time to time, exceed the Initial Demand in the electric service agreement. Company will endeavor to serve demands in excess of the Initial Demand but assumes no responsibility or liability whatsoever for providing such service.

REGULATION AND JURISDICTION

Electric service shall be available from Company at the rates and under the terms and conditions set forth in the currently applicable rate schedule or other superseding rate schedules in effect from time to time.

All the rates and regulations referred to herein are subject to approval, amendment and change by any regulatory body having jurisdiction thereof.

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Approved by: Marcia A. Podratz David R. Moeller
Marcia A. Podratz David R. Moeller
Director - Rates Senior Attorney & Director of Regulatory Compliance

COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

RATE CODES

79

APPLICATION

To the electric service requirements of a customer requiring 10,000 kW or more, where the electric service requirements of 10,000 kW or more are subject to effective competition. Specifically, a customer is subject to effective competition, per Minnesota Statutes, Section 216B.162, if the customer is located within the Company's assigned service area as determined under Minnesota Statutes, Section 216B.39, and if the customer has the ability to obtain its energy requirements from an energy supplier that is not regulated by the Commission under Minnesota Statutes, Section 216B.16.

TYPE OF SERVICE

Three phase, 60 hertz at high voltage of 13,000 through 69,000 volts or at transmission voltage of 115,000 volts.

RATE

To be specified in customer's contract.

TERMS AND CONDITIONS

1. The minimum rate under this schedule shall recover at least the incremental cost of providing the service, including the cost of additional capacity that is to be added while the rate is in effect and any applicable on-peak or off-peak differential.
2. The maximum possible rate reduction under this rate schedule shall not exceed the difference between the Company's Large Power Service Rate Schedules 74 and the cost to the customer of the lowest cost competitive energy supply.
3. The term of a contract for a customer who elects to take service under this schedule must be no less than one year and no longer than five years.
4. The Company, within a general rate case, is allowed to seek recovery of the difference between the standard Large Power Service Rate Schedules 74 and the competitive rate times the usage level during the test year period.
5. A rate under this competitive rate schedule shall meet the conditions of Minnesota Statutes, Section 216B.03, for other customers in this same customer class.

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COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

6. A rate under this schedule shall not compete with district heating or cooling provided by a district heating utility as defined by Minnesota Statutes, Section 216B.166, subdivision 2, paragraph (c).

7. A rate under this schedule may not be offered to a customer in which the Company has a financial interest greater than 50 percent.

8. The rate pursuant to this tariff may take effect on an interim basis after the filing of the contract with the Minnesota Public Utilities Commission and upon the date specified. If the Commission does not approve the rate, Minnesota Power may seek to recover the difference in revenues between the interim competitive rate and the standard tariff from the customer who was offered the competitive rate.

REGULATION AND JURISDICTION

The Commission has the authority to approve, modify or reject a rate under this schedule. If the Commission approves the competitive rate, it becomes effective as agreed to by the Company and the customer. If the competitive rate is modified by the Commission, the Commission shall issue an order modifying the competitive rate subject to the approval of the Company and the customer. Each party has ten days in which to reject the proposed modification. If no party rejects the proposed modification, the Commission's order becomes final. If either party rejects the Commission's proposed modification, the Company, on its behalf or on the behalf of the customer, may submit to the Commission a modified version of the Commission's proposal. The Commission shall accept or reject the modified version within 30 days. If the Commission rejects the competitive rate, it shall issue an order indicating the reasons for the rejection.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1.2.~~ 2. There shall be added to the bill the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~2.3.~~ 3. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

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COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill. Payments must be received by Minnesota Power on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Minnesota Power. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

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~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

OUTDOOR AND AREA LIGHTING SERVICE

RATE CODES

Outdoor Lighting Service	76
Area Lighting Service	77

APPLICATION

To all classes of retail customers for outdoor lighting purposes (Rate Codes 76) and to persons other than governmental subdivisions for the purpose of lighting streets, alleys, roads, driveways and parking lots (Rate Code 77) subject to any applicable Riders. Rate Code 76 is not available on a seasonal or temporary basis.

RATE

Lamp Type & Size Sub rate code	CIS Code	Rate Per Lamp Per Month			
		Option 1 __A	Option 2 __B	Option 3 __C	Option 4 __D
			(Option 2 Closed to New Installation)	(Option 3 Closed to New Installation)	
Mercury Vapor Lamps					
7,000 Lumens (175 watts)	MV175W	\$ 11.69 12.99	\$ 8.15 9.45		
20,000 Lumens (400 watts)	MV400W	\$ 18.57 21.39	\$ 12.90 15.72		
55,000 Lumens (1,000 watts)	MV1000W	\$ 34.89 41.63	\$ 25.08 31.82		
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	SV100W	\$ 10.24 10.98	\$ 5.91 6.65	\$ 5.91 6.65	
14,000 Lumens (150 watts)	SV150W	\$ 11.82 12.92	\$ 7.53 8.63		
23,000 Lumens (250 watts)	SV250W2	\$ 16.78 18.57	\$ 10.02 11.81	\$ 10.09 11.88	
45,000 Lumens (400 watts)	SV400W	\$ 22.44 25.38	\$ 13.45 16.39	\$ 11.75 13.75	
Metal Halide Lamps					
17,000 Lumens (250 watts)	MH250W	\$ 16.58 18.42			
28,800 Lumens (400 watts)	MH400W	\$ 20.33 23.15		\$ 12.05 14.87	
88,000 Lumens (1,000 watts)	MH1000W	\$ 33.87 40.31		\$ 22.90 29.34	
Light Emitting Diodes (LED)					
4,674 Lumens (48 watts or less)	LED48W	\$ 9.19 9.49			

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OUTDOOR AND AREA LIGHTING SERVICE

Pole Charge

Each pole used for service under this schedule only	MPPOLE	\$6.64	\$6.64	\$6.64
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Monthly Service Charge	Included	Included	Included	\$2.09
Energy Charge - Per kWh	Included	Included	Included	5.3917 17.1420 ¢

Plus any applicable adjustments

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~2.~~ 3. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

The monthly fuel and purchased energy adjustment per lamp shall be determined as the above fuel and purchased energy adjustment per kWh multiplied by the monthly kWh per lamp shown in the Energy Table below for the respective lamps.

~~3.~~ 4. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~4.~~ 5. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~5.~~ 6. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~6.~~ 7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~7.~~ 8. There shall be added to or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

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OUTDOOR AND AREA LIGHTING SERVICE

7.8. Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

8.9. Bills for service within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

BURNING SCHEDULE

Burning schedule is from dusk until dawn each night for a total of approximately 4,200 hours per year.

ENERGY TABLE

Lamp CIS Code	Days Month	31 28 31 30 31 30 31 31 30 31 30 31												
		Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burning Hours	Daily Estimates	4,200	462	379	367	302	264	233	252	294	336	401	435	475
Monthly kWh usage per fixture by type														
MV175W	2	888	98	80	78	64	56	49	53	62	71	85	92	100
MV400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MV1000W	13	4,620	508	417	404	332	290	256	277	323	370	441	479	523
SV100W	1	504	56	46	44	36	32	28	30	35	40	48	52	57
SV150W	2	756	83	68	66	54	48	42	45	53	60	72	78	87
SV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
SV400W	6	2,016	222	182	176	145	127	112	121	141	161	192	209	228
MH250W	3	1,260	139	114	110	91	79	70	76	88	101	120	130	142
MH400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MH1000W	12	4,410	485	398	385	317	277	245	264	309	353	421	457	499
LED48W	1	207	23	19	18	15	13	11	12	14	17	20	21	24

Company shall furnish all electric energy required for service under this schedule.

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OUTDOOR AND AREA LIGHTING SERVICE

EQUIPMENT OWNERSHIP, OPERATION AND MAINTENANCE

New Customer must select Option 1 or Option 4 only for each account served under this schedule.

Option 1

COMPANY TO OWN AND MAINTAIN:

1. The Company shall install, own, operate and provide normal maintenance to all equipment necessary for the above service including the Lighting Equipment beyond the point of attachment to Company's facilities consisting of, but not limited to, the fixture, lamp, ballast, photo-electric control and wiring.

Option 2

1. The Customer shall own all equipment for service under this schedule beyond the point of attachment with Company's pole or pad-mounted transformer. The equipment shall include, but not be limited to, the fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. All customer-owned equipment must meet Company's specifications.

2. The Company shall install and operate all equipment necessary for service under this schedule and Company will own all equipment necessary for service under this Option, including poles, except for that equipment as specified in paragraph 1. All Customer owned Lighting Equipment will be installed at Customer's expense. The Company shall perform all normal maintenance on equipment necessary for service under this schedule and furnish and replace all burned out lamps and photo-electric controls Option 2 is closed to new installations.

Option 3

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's pole or pad-mounted transformer. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. All Customer owned equipment must meet Company's specifications. Customer is responsible for providing lighting poles.

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OUTDOOR AND AREA LIGHTING SERVICE

2. The Company shall own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. No maintenance will be provided by the Company on Customer owned equipment except as specified in a separate agreement. Option 3 is closed to new installations.

Option 4

CUSTOMER TO OWN AND MAINTAIN:

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's electrical system. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. Customer's disconnect switch must meet Company's specifications. Company's point of delivery shall be on the Company's side of disconnect switch either at the weather head for overhead service or at the pad mount transformer for underground service.

2. Customer is responsible for all maintenance on all equipment beyond Company's point of delivery. Standard safety procedures followed by the Company on Company-owned lighting facilities shall be followed by Customer when maintaining its lighting equipment. Company reserves the right to disconnect Customer equipment from Company's electrical system if in the Company's opinion Customer's lighting equipment is operated or maintained in an unsafe or improper condition.

CONTRACT PERIOD

Six months, automatically renewable for six month periods unless canceled by 30 days written notice by either party to the other.

SERVICE CONDITIONS

1. Lights shall be located at sites designated and authorized by Customer. Customer shall provide in writing suitable right-of-way and right-of-occupancy for the facilities which the Company deems necessary to render service under the option chosen. The location shall be readily accessible to Company's equipment used for servicing and/or supplying service under the option chosen.

2. Service will normally be from standard distribution facilities typical of those in the area surrounding the point of service. If it is necessary to provide non-standard distribution facilities, Customer shall pay Company for all costs in excess of standard facility costs.

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OUTDOOR AND AREA LIGHTING SERVICE

3. Company will, at Customer's expense, relocate or change the position of any poles, circuits or lights owned by the Company as may be requested in writing and duly authorized by Customer.

4. For Area Lighting Service purposes, no more than four lights will be mounted on a single distribution pole used for other utility purposes. If more than one light is mounted on a single pole, Company's investment in additional facilities, over and above those which would be required for a single standard bracket mounting, shall not exceed \$15.00 per light. Additional required investment will be at Customer's expense.

5. Company shall provide as standard a service extension of up to the equivalent of one pole span to provide service under this schedule without cost to the Customer. No additional transformer capacity shall be provided as standard for Area Lighting Service. All necessary costs for providing service under this schedule in excess of standard costs shall be paid by Customer.

6. For lamps which satisfy the conditions as set forth in Options 1 or 2 under Equipment Ownership, Operation and Maintenance, Company will absorb the cost of replacing a lamp and photo-electric control devices damaged by a first act of vandalism at each location during each calendar year. In addition, Company will absorb the cost of replacing a lighting unit damaged by a first act of vandalism at each location during each calendar year if served under Option 1. All subsequent and other costs due to vandalism are at Customer's expense. For those locations served under Option 1 or 2, Company will repair equipment (not covered above) damaged by vandalism and will bill customer for appropriate costs.

SCHEDULE OF CHARGES

Applicable in conjunction with Service Conditions paragraph 6.

Labor and vehicle charges per the applicable rate as stated in the Company's Accounting Manual at the time the charge was incurred. Materials charges per the Company's cost for lighting replacement equipment plus the then current Material Handling Expense and A&G expense per Company's Accounting Manual.

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MUNICIPAL PUMPING

RATE CODES

87

APPLICATION

To electric service supplied to a municipality for the operation of water pumping and sewage disposal facilities, where all such facilities are completely electrified and operated by service of Company, subject to Company's Electric Service Regulations and any applicable Riders. Service shall be delivered at one point from existing facilities of adequate type and capacity and metered at (or compensated to) the voltage of delivery.

Service under this Schedule is closed to new customers. Existing customer(s) shall be gradually transitioned to an alternative applicable Rate Schedule.

TYPE OF SERVICE

Single phase, three phase or single and three phase, 60 hertz, at one standard low voltage of 120/240 to 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts.

RATE (Monthly)

CUSTOMERS WITHOUT A DEMAND METER

Service Charge \$12.00

Energy Charge

All kWh (¢/kWh) ~~10.204~~ 8.050¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$12.00

Demand Charge

All kW (\$/kW) \$6.50

Energy Charge

All kWh (¢/kWh) ~~7.619~~ 5.465¢

Plus any applicable Adjustments.

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MUNICIPAL PUMPING

MINIMUM CHARGE (Monthly)

Demand Charge per kW of Billing Demand but not less than the Minimum Demand specified in customer's contract.

Plus any applicable Adjustments.

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~4.2.~~ There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2.3.~~ There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~3.4.~~ There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~4.5.~~ There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~5.6.~~ There shall be added to the monthly bill, as computed above, a Low-Income Affordability Program Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).

~~6.7.~~ There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

~~7.8.~~ There shall be added or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~8.9.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or

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MUNICIPAL PUMPING

customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

9.10. Bills for service to Municipalities within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for the city's Franchise Fee.

HIGH VOLTAGE SERVICE

Where customer contracts for service delivered and metered at (or compensated to) the available primary voltage of 13,000 volts or higher, the monthly bill, before Adjustments, will be subject to a discount of \$2.00 per kW of Billing Demand. In addition, where customer contracts for service delivered and metered at (or compensated to) the available transmission voltage of 115,000 volts or higher, the monthly bill, before Adjustments, will also be subject to a discount of 0.350¢ per kWh of Energy.

DETERMINATION OF BILLING DEMAND

The Billing Demand is the kW measured during the 15-minute period of customer's greatest use during the month, as adjusted for power factor, but not less than 5 kW.

Demand will be adjusted by multiplying by 85% (90% effective December 1, 2019) and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% (90% effective December 1, 2019) lagging. However, in no event shall the average monthly power factor used for calculation in this paragraph be less than 45%.

Maximum use created by the operation of fire pumps will be disregarded if Company is notified promptly.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

CONTRACT PERIOD

Five years, automatically renewable for one year periods unless canceled by 30 days' written notice by either party to the other prior to any renewal date.

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STREET AND HIGHWAY LIGHTING SERVICE

RATE CODES

Highway Lighting Service	80
Overhead Street Lighting Service	83
Ornamental Street Lighting Service	84

TERRITORY

Applicable in all territories served at retail by the Company. Highway Lighting Service is subject to individual review for each point of delivery.

APPLICATION

To any governmental subdivision taking all of its street or highway lighting requirements for service within the Company's service territory under the Company's standard contract for such service, subject to any applicable Riders. Highway Lighting Service is limited to the State of Minnesota, Department of Highways exclusively for public highway lighting.

RATE

Lamp Type & Size Sub rate code	CIS Code	Rate Per Fixture Per Month			
		Option 1 __A	Option 2 __B	Option 3 __C	Option 4 __D
		(Option 2 Closed to New Installation)		Option 3 Closed to New Installation)	
Mercury Vapor Lamps (Closed to New Installations)					
7,000 Lumens (175 watts)	MV175W	\$16.03 17.33	\$8.42 9.72	\$8.15 9.45	
10,000 Lumens (250 watts)	MV250W		\$10.31 12.40		
20,000 Lumens (400 watts)	MV400W	\$21.54 24.36	\$14.44 17.26	\$13.97 16.79	
55,000 Lumens (1,000 watts)	MV1000W2		\$25.73 32.47		
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	SV100W	\$13.67 14.41	\$6.88 7.62	\$6.53 7.27	
14,000 Lumens (150 watts)	SV150W	\$15.82 16.92	\$8.68 9.78	\$8.42 9.52	
14,000 Lumens (150 watts)	SV150W-P		\$7.05 9.06		
20,500 Lumens (200 watts)	SV200W	\$18.45 20.11	\$10.21 11.87	\$10.08 11.74	
23,000 Lumens (250 watts)	SV250W	\$19.90 21.69	\$11.18 12.97	\$10.88 12.67	
45,000 Lumens (400 watts)	SV400W	\$24.44 27.38	\$15.17 18.11	\$14.31 17.25	
Metal Halide Lamps					
28,800 Lumens (400 watts)	MH400W	\$13.32 16.14			
Light Emitting Diode (LED)					

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STREET AND HIGHWAY LIGHTING SERVICE

4,000 Lumens (54 watts or less) LED54W \$~~12.77~~13.40
8,800 Lumens (118 watts or less,
but more than 54 watts) LED118W \$~~16.65~~17.39

Lamp Type & Size Sub rate code	CIS Code	Rate Per Fixture Per Month			
		Option 1 __A	Option 2 __B	Option 3 __C	Option 4 __D

23,000 Lumens (219 watts or less,
but more than 118 watts) LED219W \$~~24.60~~22.55

Monthly Service Charge	Included	Included	Included	\$2.09
Energy Charge - Per kWh	Included	Included	Included	
7.14 <u>205.391</u> ¢				
Plus any applicable adjustments				

ADJUSTMENTS

1. The following Interim Adjustment shall be applied to billings for electric service:

There shall also be added an Interim Rate Adjustment equal to 7.70% of the billing for electric service.

~~1-2.~~ 2. There shall be added to or deducted from the monthly bill, as computed above, a fuel and purchased energy adjustment determined in accordance with the Rider for Fuel and Purchased Energy Adjustment.

~~2-3.~~ 3. The monthly fuel and purchased energy adjustment per fixture shall be determined as the above fuel and purchased energy adjustment per kWh multiplied by the monthly kWh per fixture shown in the Energy Table below for the respective fixtures.

~~3-4.~~ 4. There shall be added to the monthly bill, as computed above, a transmission investment adjustment determined in accordance with the Rider for Transmission Cost Recovery.

~~4-5.~~ 5. There shall be added to the monthly bill, as computed above, a renewable resources adjustment determined in accordance with the Rider for Renewable Resources.

~~5-6.~~ 6. There shall be added to the monthly bill, as computed above, a conservation program adjustment determined in accordance with the Rider for Conservation Program Adjustment.

~~6-7.~~ 7. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Boswell Unit 4 Emission Reduction.

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Effective Date December 1, 2018 Order Date May 29, 2018

Approved by: Marcia A. Podratz David R. Moeller
~~Marcia A. Podratz~~ ~~David R. Moeller~~
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

~~7.8.~~ There shall be added or deducted from the monthly billing, as computed above, a solar energy adjustment determined in accordance with the Rider for Solar Energy Adjustment.

~~8.9.~~ Plus the applicable proportionate part of any taxes and assessments imposed by any governmental authority which are assessed on the basis of meters or customers, or the price of or revenues from electric energy or service sold, or the volume of energy generated, transmitted or purchased for sale or sold.

~~9.10.~~ Bills for service to parties within the corporate limits of the applicable city shall include an upward adjustment as specified in the applicable Rider for city's Franchise Fee.

PAYMENT

Bills are due and payable 15 days following the date the bill is rendered or such later date as may be specified on the bill.

BURNING SCHEDULE

Burning schedule is from dusk until dawn each night for a total of approximately 4,200 hours per year.

ENERGY TABLE

Filing Date November 12, 2019 ~~16~~ MPUC Docket No. E015/GR-19-44216-664
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~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

Lamp CIS Code	Days Month		31	28	31	30	31	30	31	31	30	31	30	31
	Burning Hours	Daily Estimates	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
				4,200	462	379	367	302	264	233	252	294	336	401
Monthly kWh usage per fixture by type														
MV175W	2	888	98	80	78	64	56	49	53	62	71	85	92	100
MV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
MV400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
MV1000W2	13	4,620	508	417	404	332	290	256	277	323	370	441	479	523
SV100W	1	504	56	46	44	36	32	28	30	35	40	48	52	57
SV150W	2	756	83	68	66	54	48	42	45	53	60	72	78	87
SV150W-P	1	468	51	42	41	34	29	26	28	33	37	45	48	54
SV200W	3	1,140	125	103	100	82	72	63	68	80	91	109	118	129
SV250W	3	1,224	135	110	107	88	77	68	73	86	98	117	127	138
SV400W	6	2,016	222	182	176	145	127	112	121	141	161	192	209	228
MH400W	5	1,932	213	174	169	139	121	107	116	135	155	184	200	219
LED54W	1	226	25	20	20	16	14	13	14	16	18	22	23	25
LED118W	1	505	56	46	44	36	32	28	30	35	40	48	52	58
LED219W	3	945	104	85	83	68	59	52	57	66	76	90	98	107

Company shall furnish all electric energy required for service under this schedule.

EQUIPMENT OWNERSHIP, OPERATION AND MAINTENANCE

New Customers with new installations must select Option 1 or Option 4 only for each account served under this schedule. Options 2 and 3 are closed to new installations. Options 1 or 4 are available for Overhead Lighting Service and for Highway or Ornamental Lighting Service.

Option 1

COMPANY TO OWN AND MAINTAIN.

1. The Company shall install, own, operate and provide normal maintenance to all equipment necessary for the above service including the Lighting Equipment beyond the point of attachment to Company's facilities consisting of, but not limited to, the fixture, standard brackets or mast arms not exceeding 14 feet in length, fixture, ballast, photo-electric control, driver, and wiring.

Option 2

Filing Date November 12, 2019 MPUC Docket No. E015/GR-19-44216-664
Effective Date December 1, 2018 Order Date May 29, 2018

Approved by: Marcia A. Podratz David R. Moeller
Marcia A. Podratz **David R. Moeller**
Director – Rates **Senior Attorney & Director of Regulatory Compliance**

STREET AND HIGHWAY LIGHTING SERVICE

1. The Customer shall own all equipment for service under this schedule beyond the point of attachment with Company's facilities. The equipment shall include, but not be limited to, the fixture, standard brackets or mast arms not exceeding 14 feet in length, lamp, ballast, photo-electric control and all minor materials. All customer-owned equipment must meet Company's specifications. In all cases, poles are owned by Company.

2. The Company shall install and operate all equipment necessary for service under this schedule and Company will own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. All Customer owned Lighting Equipment will be installed at Customer's expense. The Company shall perform all normal maintenance on equipment necessary for service under this schedule and furnish and replace all burned out lamps and photo-electric controls. Option 2 is closed to new installations.

Option 3

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's lines used to deliver power to Customer's system. The equipment shall include, but not be limited to, the posts, fixture, mounting bracket, lamp, ballast and all minor materials. In addition, Customer must furnish and install a master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. All Customer owned equipment must meet Company's specifications.

2. The Company shall own all equipment necessary for service under this Option except for that equipment as specified in paragraph 1. The Company will furnish and replace all burned out lamps and photo-electric controls and will clean or replace glassware at the time of lamp replacement. Customer shall be responsible for providing replacement glassware. No maintenance will be provided by the Company on customer owned equipment except as specified in a separate agreement. Option 3 is closed to new installations.

Option 4

CUSTOMERS TO OWN AND MAINTAIN:

1. The Customer shall own, install and maintain all equipment necessary for service under this schedule beyond the point of attachment with Company's lines used to deliver power to Customer's system. The equipment shall include but not be limited to the poles, fixture, mounting bracket, lamp, ballast, photo-electric control and all minor materials. In addition, Customer must furnish and install in master disconnect switch at the point of attachment to isolate Customer's equipment from Company's electrical system. Customer's disconnect switch must meet Company's specifications.

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Marcia A. Podratz David R. Moeller
Director – Rates Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

2. Customer is responsible for all maintenance on all equipment beyond Company's point of attachment. Standard safety procedures followed by the Company on Company-owned lighting facilities shall be followed by Customer when maintaining its lighting equipment. Company reserves the right to disconnect Customer equipment from Company's electrical system if in the Company's opinion Customer's lighting equipment is operated or maintained in an unsafe or improper condition.

CONTRACT PERIOD

Six months, automatically renewable for six month periods unless canceled by 30 days written notice by either party to the other.

SERVICE CONDITIONS

1. Customers will contract for service under this schedule for the number of fixtures of each size installed at the time of the contract.

2. Lights shall be located at sites designated and authorized by Customer. Customer shall provide in writing suitable right-of-way and right-of-occupancy for the facilities which the Company deems necessary to render service under the option chosen. The location shall be readily accessible to Company's equipment used for servicing and/or supplying service under the option chosen. The Company shall have the right to use and occupy the street and highway rights-of-way for the purpose of performing any act of service in connection with service under this schedule.

3. Service will normally be from standard distribution facilities typical of those in the area surrounding the point of service. If it is necessary to provide non-standard distribution facilities, Customer shall pay Company for all costs in excess of standard facility costs.

4. Company will, at Customer's expense, relocate or change the position of any poles, circuits or lights owned by the Company as may be requested in writing and duly authorized by Customer.

5. Company will install at its expense such additional street lights served under Option 1 as may be requested in writing and duly authorized by Customer from time to time during the period of the contract. Company shall provide as standard a service extension of up to the equivalent of one pole span to provide service under this schedule without cost to the Customer. No additional transformer capacity shall be provided as standard for Option 4 Lighting Service. All necessary costs for providing service under this schedule in excess of standard costs shall be paid by Customer.

6. For fixtures which satisfy the conditions as set forth in Options 1 or 2 under Equipment Ownership, Operation and Maintenance, Company will absorb the cost of

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Effective Date December 1, 2018 Order Date May 29, 2018

Approved by: Marcia A. Podratz David R. Moeller
~~Marcia A. Podratz~~ ~~David R. Moeller~~
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

STREET AND HIGHWAY LIGHTING SERVICE

replacing a lamp and photo-electric control devices damaged by a first act of vandalism at each location during each calendar year. In addition, Company will absorb the cost of replacing a lighting unit damaged by a first act of vandalism at each location during each calendar year if served under Option 1.

7. All subsequent and other costs due to vandalism are at Customer's expense. For those locations served under Option 1 or 2, Company will repair equipment (not covered above) damaged by vandalism and will bill customer for appropriate costs.

8. Existing Option 1 Customers who wish to replace Sodium Vapor fixtures that are less than ten years old and not in need of significant maintenance or repair with LED street lights will pay Company the remaining un-depreciated facility cost. Under Option 2, Customers who convert to LED street lights will be assessed a removal fee of \$50 if the mast arm is left up and reused or \$100 if the mast arm is removed and not reused. Under Option 3, the Company's Compatible Unit Estimator (CUE) will be used to estimate the removal fee with a true-up of actual costs once the work is completed.

SCHEDULE OF CHARGES

Applicable in conjunction with Service Conditions paragraph 6.

Labor and vehicle charges per the applicable rate as stated in the Company's Accounting Manual at the time the charge was incurred. Charges for materials used per the Company's cost for lighting replacement equipment plus the then current Materials Handling expense and A&G expense per Company's Accounting Manual.

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Approved by: Marcia A. Podratz David R. Moeller
~~Marcia A. Podratz~~ ~~David R. Moeller~~
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

PILOT RIDER FOR LARGE LIGHT AND POWER TIME-OF-USE SERVICE

APPLICATION

Applicable to any customer taking service under Large Light and Power Service Schedule 75 with total power requirements in excess of 10,000 kW. All provisions of the Large Light and Power Service Schedule shall apply to the Time-of-Use service under this Rider except as noted below. Participation by customer is voluntary.

RATE MODIFICATION

The monthly rate will be modified as follows:

Demand Charge

For the first 100 kW or less of On-Peak Billing Demand	\$1,200.00
All additional On-Peak Billing Demand (\$/kW)	\$10.90
Off-Peak Demand in excess of On-Peak Billing Demand (\$/kW)	\$4.25

Energy Charge

On-Peak kWh (¢/kWh)	6.337 4.195¢
Off-Peak kWh (¢/kWh)	5.275 3.133¢

Modified Determination of Billing Demand

On-Peak Billing Demand shall be the kW measured during the 15-minute period of the customer's greatest On-Peak use during the month, as adjusted for power factor, except that On-Peak Billing Demand will not be less than 75% of the greatest adjusted On-Peak demand during the preceding eleven months, nor shall it be less than any Minimum Contract Demand that may be specified in customer's Electric Service Agreement.

The Off-Peak Demand is defined as the difference between the maximum kW measured during the 15-minute period of the customer's greatest use (On-Peak or Off-Peak) during the current month, as adjusted for power factor, and the On-Peak Billing Demand.

SERVICE CONDITIONS

1. On-Peak and Off-Peak Periods Defined: The On-Peak time period shall be defined as 7:00 a.m. to 10:00 p.m., Monday through Friday, inclusive, excluding holidays. The Off-Peak time period shall include all other hours. Holidays shall be those days nationally designated and celebrated as New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, and Christmas.
2. At the end of the first year following the initial date when any customer takes service under this Rider, the applicability, rate modification, and service conditions will be

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Approved by: ~~Marcia A. Podratz~~ David R. Moeller
~~Marcia A. Podratz~~ David R. Moeller
~~Director - Rates~~ Senior Attorney & Director of Regulatory Compliance

PILOT RIDER FOR LARGE LIGHT AND POWER TIME-OF-USE SERVICE

evaluated for potential modification. The Rider will continue in effect after the initial year until it has been modified or cancelled based on the evaluation of the pilot.

3. The term of service under this Rider shall be no less than one year, unless the pilot offering is terminated prior to the conclusion of customer's first year of service.

Filing Date November 12, 2019 ~~196~~ MPUC Docket No. E015/GR-19-44216-664
Effective Date December 1, 2018 Order Date May 29, 2018

Approved by: ~~Marcia A. Pedratz~~ David R. Moeller
~~Marcia A. Pedratz~~ David R. Moeller
~~Director – Rates~~ Senior Attorney & Director of Regulatory Compliance

NOTICE TO COUNTIES AND MUNICIPALITIES

Under Minn. Stat. § 216B.16, Subd. 1

On XXXX XX, 20XX, the Minnesota Public Utilities Commission (“Commission”) accepted as of XXXX XX, 2019 Minnesota Power’s application for a general increase in rates for electric service provided to customers in the State of Minnesota of approximately \$65.9 million, or about 10.59 percent, pursuant to Minn. Stat. § 216B.16.

In accordance with Minn. Stat. § 216B.16, subd. 2, the Commission has suspended proposed final rates to allow the Commission time to evaluate the application. In accordance with Minn. Stat. § 216B.16, subd. 3, the Commission has authorized a total interim rate increase of approximately \$47.9 million or about 7.70 percent to be effective XXXX XX, 2020. During this interim period, Minnesota Power electric customers’ bills will be approximately 7.70 percent higher depending on service class, and the rates will remain in effect until a final rate level is determined.

Examples of the effect of these increases on typical bills are as follows:

Proposed change in monthly electricity costs¹

Customer classification	Avg. monthly kWh usage	Previous monthly costs	Interim monthly increase	Proposed final monthly increase
Residential	713	\$78.16	\$5.95	\$11.66
Residential Dual Fuel	1,063	\$88.90	\$6.86	-\$20.36
General Service	2,711	\$290.94	\$22.31	\$30.05
Commercial & Industrial Dual Fuel	4,255	\$339.18	\$26.16	-\$73.86
Large Light and Power	266,281	\$21,120.22	\$1,648.42	\$2,216.02
Large Power	56,823,222	\$3,353,436.00	\$257,448.00	\$311,935.26
Street and Area Lighting	337	\$57.94	\$4.46	\$8.69

¹ Monthly increases include all line items on bills except sales taxes and municipal franchise fees, and may vary by individual customer based on usage characteristics.

*The rate levels upon which the previous monthly costs are based were authorized in Docket No. E-015/GR-16-664.

The Commission will determine the amount of increase in rates it will allow by year-end 2020, and final rates reflecting that determination will be implemented thereafter. If the final rate level is less than the interim rate level, the amount collected during the interim period attributable to that difference will be refunded to customers with interest.

The proposed rate schedules and a comparison of present and proposed rates may be examined by the public during normal business hours at the Minnesota Department of Commerce–Energy Division, 85 7th Place East, Suite 500, St. Paul, MN 55101, Telephone: 651-539-1800, TTY: 651-297-3067; and at the Minnesota Power office located at 30 West Superior Street, Duluth, Minnesota 55802. It is also available on the Internet at:

Minnesota Power Web site: www.mnpower.com;

Commission Web site: www.mn.gov/puc
Docket Number E-015/GR-19-442

The Minnesota Department of Commerce, among other parties, will review Minnesota Power’s books and records in this proceeding.

An Administrative Law Judge will schedule public hearings. Customers will be notified when the hearings are scheduled. Public notice of hearings dates and locations will be published in local newspapers in Minnesota Power’s service area.

Persons who wish to formally intervene or testify in this case should contact the Administrative Law Judge, Minnesota Office of Administrative Hearings, 600 North Robert St., St. Paul, MN 55101.

Submit comments

Minnesota Public Utilities Commission

121 7th Place East, Suite 350
St. Paul, MN 55101-2147
651-296-0406 or 1-800-657-3782

mn.gov/puc

Select Speak Up!, find this docket (19-442), and add your comments to the discussion.

How to learn more

Minnesota Power's current and proposed rate schedules are available at:

Minnesota Power

30 W Superior Street
Duluth, MN 55802
800-228-4966

www.mnpower.com/RateReview

Minnesota Department of Commerce

Energy Division
85 7th Place East, Suite 500
St. Paul, MN 55101
651-539-1800

mn.gov/puc

Select eDockets, then type 19 in the year field, type 442 in the number field, select Search, and the list of documents will appear on the next page.

Citizens with hearing or speech disabilities may call through their preferred Telecommunications Relay Service.



AN ALLETE COMPANY

Interim change in electric rates

Your Minnesota Power bill is changing.

In effect January 1, 2020



AN ALLETE COMPANY

mnpower.com/RateReview

Minnesota Power has asked the Minnesota Public Utilities Commission (MPUC) for an increase in electricity rates.

The requested increase is \$65.9 million or about 10.59 percent overall. While the MPUC reviews our request, state law allows Minnesota Power to collect higher rates on an interim (temporary) basis. The MPUC has approved an overall interim rate increase of \$47.9 million, or about 7.7 percent, for all Minnesota Power customers. The increase is effective for service rendered on or after January 1, 2020.

The rate increase appears on your bill as "Interim Rate Adjustment." It applies to all major components of your bill. For residential and small general service customers, those charges include the monthly minimum charge and energy charges. For all other customers, the increase applies to the customer charge, energy charges, and the demand charge. The interim rate adjustment is billed as a 7.7 percent increase or about an additional \$5.95 a month for the average residential customer.

The MPUC will have up to 15 months to evaluate our request and will make its decision regarding final rates by early 2021. If final rates are lower than interim rates, Minnesota Power will refund customers the difference with interest. If final rates are higher than interim rates Minnesota Power will not charge customers the difference.

Why is Minnesota Power asking for an increase?

Our current rates were set in Docket No. E015/GR-16-664. Since then we've invested in transmission, distribution and generation infrastructure and cleaner energy resources to ensure safe, reliable and cleaner sources of energy for customers. Now state regulators will review these expenditures and determine the way to recover those costs.

What is the process for reviewing Minnesota Power's request?

The MPUC, the Minnesota Department of Commerce – Division of Energy Resources, the Office of the Attorney General – Residential Utilities and Antitrust Division, public interest groups, and customers will review and investigate our proposal.

The MPUC will hold public hearings and accept written comments about our rate request. Customers and others will be able to comment on our rate request at the public hearings. You may add verbal comments, written comments, or both into the record.

Notice of the public hearing dates and locations will be published in local newspapers, in bill inserts and online at www.mnpower.com/RateReview and mn.gov/puc.

Here's how these rate changes will affect monthly bills

The proposed rate increase will affect individual monthly bills differently, depending on the amount of electric usage and customer type. The table below shows the average, interim and proposed rates for each customer type.

Customer Classification	Avg. monthly kWh usage	Previous monthly cost	Interim monthly increase	Proposed final monthly increase
Residential	713	\$78.16	\$5.95	\$11.66
Residential Dual Fuel	1,063	\$88.90	\$6.86	-\$20.36
General Service	2,711	\$290.94	\$22.31	\$30.05
Commercial & Industrial Dual Fuel	4,255	\$339.18	\$26.16	-\$73.86
Large Light & Power	266,281	\$21,120.22	\$1,648.42	\$2,216.02
Large Power	56,823,222	\$3,353,436.00	\$257,448.00	\$311,935.26
Street & Area Lighting	337	\$57.94	\$4.46	\$8.69



RATE INCREASE NOTICE

XXXX 2020

AN ALLETE COMPANY

Minnesota Power has asked the Minnesota Public Utilities Commission (MPUC) for permission to increase its electric rates by approximately \$65.9 million, or about 10.59 percent overall. Depending on customer class and usage, the actual percent will vary based upon final approval by the MPUC. The MPUC will make its decision regarding final rates late 2020.

Public Comment

Administrative Law Judge _____ has scheduled public hearings so that customers may have an opportunity to present their views regarding Minnesota Power's recently filed retail rate case (MPUC Docket No. E-015/GR-19-442 and OAH Docket No. _____). Any Minnesota Power customer or other person may attend or provide comments at the hearings. You are invited to comment on the adequacy and quality of Minnesota Power's service, the level of rates or other related matters. You do not need to be represented by an attorney.

Public Hearings Schedule

DATE
Location

DATE
Location

DATE
Location

DATE
Location

Written comments may be sent to Administrative Law Judge _____, Office of Administrative Hearings, PO Box 64620, St. Paul, MN 55164-0620 or by email to _____@state.mn.us. Written comments are most effective when they include: 1) the section of Minnesota Power's proposal you are addressing, 2) your specific recommendations, 3) the reason for your recommendations, 4) Docket No. OAH _____ and MPUC E015/GR-19-442. Comments must be received by xxx.xx, 20xx.

Important: Comments will be made available to the public on the Commission's Web site, except in limited circumstances consistent with the Minnesota Government Data Practices Act. The Commission does not edit or delete personal identifying information from submissions.

Accommodations

If you need any reasonable accommodation to enable you to fully participate in these public hearings (i.e., sign language or foreign language interpreter, wheelchair accessibility, or large-print materials please contact the MPUC at 651-201-2202 or 800-657-3782 one week in advance of the hearing.

Evidentiary Hearings

Formal evidentiary hearings on Minnesota Power's proposal are scheduled to start on xxx.xx,20xx, at xx:xx x.m., in the Large Hearing Room, Minnesota Public Utilities Commission, 121 Seventh Place East, Suite 350, St. Paul, MN. The purpose of the evidentiary hearings is to allow Minnesota Power, the Minnesota Department of Commerce—Division of Energy Resources, the Office of Attorney General—Residential Utilities and Antitrust Division and others to present testimony and to cross-examine each other's witnesses on the proposed rate increase.

Anyone who wishes to formally intervene in this case should contact the Administrative Law Judge, _____, at the Office of Administrative Hearings, PO Box 64620, St. Paul, MN 55164-0620 or by email to _____@state.mn.us.

Effect of Rate Changes

Below are examples of the effect of the proposed increase on typical bills of Minnesota Power's customers. Individual changes may be higher or lower depending on actual electricity usage.

Customer classification	Avg. monthly kWh usage	Previous monthly costs	Proposed interim monthly increase	Proposed final monthly increase
Residential	713	\$78.16	\$5.95	\$11.66
Residential Dual Fuel	1,063	\$88.90	\$6.86	-\$20.36
General Service	2,711	\$290.94	\$22.31	\$30.05
Commercial & Industrial Dual Fuel	4,255	\$339.18	\$26.16	-\$73.86
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Large Power	56,823,222	\$3,353,436.00	\$257,448.00	\$311,935.26
Street and Area Lighting	337	\$57.94	\$4.46	\$8.69

*Monthly increases include all line items on bills except sales taxes and municipal franchise fees, and may vary by customer based on usage.

The rate changes described in this notice have been requested by Minnesota Power. The MPUC may either grant or deny the requested changes, in whole or in part, and may grant a lesser or greater increase than that requested for any class or classes of service.

For More Information

You may examine our current and proposed rate schedules and our request for new rates by visiting our Web site at www.mnpower.com. Or, you may contact the Minnesota Department of Commerce—Energy Division at 85 7th Place East, Suite 500, St. Paul, MN 55101, Phone: (651) 539-1800. Customers with hearing or speech disabilities may call through Minnesota Relay (800) 627-3529 or 711. Web: mn.gov/puc (search by docket number: select 19 in the year field, enter 442 in the number field, click on search, and the list of documents will appear on the next page).

Customers may submit comments with the Minnesota Public Utilities Commission:

**STATE OF MINNESOTA
BEFORE THE
MINNESOTA PUBLIC UTILITIES COMMISSION**

**Katie J. Sieben
Dan Lipschultz
Valerie Means
Matthew Schuerger
John A. Tuma**

**Chair
Commissioner
Commissioner
Commissioner
Commissioner**

In the Matter of the Application of
Minnesota Power for Authority to Increase
Rates for Electric Utility Service in Minnesota

Docket No. E015/GR-19-442

AGREEMENT AND UNDERTAKING

Minnesota Power, in conjunction with the Notice and Petition for Interim Rates filed with the Minnesota Public Utilities Commission (“Commission”), makes the following unqualified agreement concerning refunding any portion of the requested increase in rates determined by the Commission to be unreasonable.

Pursuant to Minn. R. 7825.3300, Minnesota Power hereby agrees and undertakes to refund to its customers the amount, if any, collected during the interim rate period, plus interest at the current rate determined by the Commission, computed from the effective date of the interim rates through the date of refund. The refund shall be made in accordance with Minn. Stat. § 216B.16, subd. 3, and in a manner approved by the Commission.

In addition, Minnesota Power agrees to keep such records of sales and billings under the proposed interim rates as will be necessary to compute any potential refund.

This Agreement and Undertaking is made pursuant to authority granted by the Board of Directors of ALLETE, Inc.

Dated: November 1, 2019

Respectfully submitted,



Patrick L. Cutshall
ALLETE Vice President & Corporate
Treasurer
30 West Superior Street
Duluth, MN 55802
218-355-3529

Subscribed to before me this 1st day
of November, 2019



Notary Public

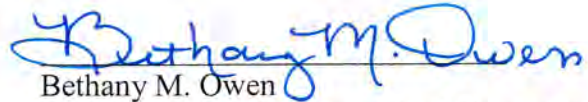


CERTIFICATION

As required by the Minnesota Public Utilities Commission's Statement of Policy on Interim Rates dated April 14, 1982, I hereby certify and affirm that the petition of Minnesota Power for approval of Proposed Interim Rates and Final Rates is in compliance with Minnesota Statutes.

Dated: November 1, 2019

Respectfully submitted,



Bethany M. Owen
President, ALLETE, Inc. d/b/a Minnesota Power
30 West Superior Street
Duluth, MN 55802
218-355-3231

Subscribed to before me this 1st day
of November, 2019


Notary Public

MP's Service List to Counties and Municipalities

Akeley City Clerk
P.O. Box 67
Akeley, MN 56433

Aldrich City Clerk
P.O. Box 123
Aldrich, MN 56434

Askov City Clerk
P.O. Box 245
Askov, MN 55704

Aurora City Clerk
16 West Second Avenue N
Aurora, MN 55705

Babbitt City Clerk
71 South Drive
Babbitt, MN 55706

Backus City Clerk
P.O. Box 44
Backus, MN 56435

Barnum City Administrator
3741 Front Street
Barnum, MN 55707

Bertha City Clerk
P.O. Box 65
Bertha , MN 56437

Bigfork City Clerk
P.O. Box 196
Bigfork, MN 56628

Bovey City Clerk
P.O. Box 399
Bovey, MN 55709

Bowlus City Clerk
343 Martin Street
Bowlus, MN 56314

Brookston City Clerk
P.O. Box 304
Brookston, MN 55711

Browerville City Clerk
P.O. Box 247
Browerville, MN 56438

Bruno City Clerk
P.O. Box 66
Bruno, MN 55712

Buckman City Clerk
P.O. Box 609
Buckman, MN 56317

Burtrum City Clerk
P.O. Box 12
Upsula, MN 56384

Calumet City Clerk
P.O. Box 375
Calumet, MN 55716

Carlton City Clerk
310 Chestnut Avenue
Carlton, MN 55718

Chickamaw Beach City Clerk
6775 Indian Trail Lane
Chickamaw Beach, MN 56474

Chisolm City Administrator
316 West Lake Street
Chisolm, MN 55719

City Clerk
P.O. Box 396
Clarissa , MN 56440

Cloquet City Administrator
1307 Cloquet Avenue
Cloquet , MN 55720

Cohasset City Deputy Clerk
305 NW First Avenue
Cohasset, MN 55721

Coleraine City Clerk
P.O. Box 564
Coleraine, MN 55722

Crosby City Clerk
2 Second Street SW
Crosby, MN 56441

Cuyuna City Clerk
P.O. Box 536
Deerwood, MN 56444

Deer River City Deputy Clerk
P.O. Box 70
Deer River, MN 56636

City Clerk
P.O. Box 187
Deerwood, MN 56444

Denham City Clerk
27816 Oak Bend Way
Sturgeon Lake, MN 55783

Duluth City Clerk
330 City Hall
Duluth, MN 55802

East Gull Lake City Administrator
10790 Squaw Point Road
East Gull Lake, MN 56401

Elmdale City Clerk
8162 State Hwy 238
Bowlus, MN 56314

Eveleth City Administrator
413 Pierce Street
Eveleth, MN 55734

Flensburg City Clerk
P.O. Box 70
Flensburg, MN 56328

Floodwood City Administrator
P.O. Box 348
Floodwood, MN 55736

Fort Ripley City Clerk
P.O. Box 155
Fort Ripley, MN 56448

Genola City Clerk
13883 Highway 25
Pierz, MN 56364

Grey Eagle City Clerk
P.O. Box 116
Grey Eagle, MN 56336

Hackensack City Clerk
P.O. Box 490
Hackensack, MN 56452

Hermantown City Clerk
5105 Maple Grove Road
Hermantown, MN 55811

Hewitt City Clerk
P.O. Box 91
Hewitt , MN 56453

Hoyt Lakes City Clerk
206 Kennedy Memorial Drive
Hoyt Lakes, MN 55750

International Falls City Admin.
600 Fourth Street
International Falls, MN 56649

Iron Junction City Clerk
P.O. Box 38
Iron, MN 55751

Ironton City Clerk
P.O. Box 97
Ironton, MN 56455

Jenkins City Clerk
33861 Cottage Avenue
Jenkins, MN 56475

Kerrick City Clerk
P.O. Box 47
Kerrick, MN 55756

Kinney City Clerk
P.O. Box 321
Kinney, MN 55758

Lake Shore City Clerk
8583 Interlachen Road
Lake Shore, MN 56468

Lastrup City Clerk
P.O.Box 24
Lastrup, MN 56344

Leonidas City Clerk
132 Second Street North
Eveleth, MN 55734

MP's Service List to Counties and Municipalities

Little Falls City Administrator
P.O. Box 244
Little Falls, MN 56345

Long Prairie City Clerk
615 Lake Street South
Long Prairie, MN 56347

Marble City Clerk
302 Alice Avenue
Marble, MN 55764

Meadowlands City Clerk
P.O. Box 128
Meadowlands, MN 55765

Moose Lake City Administrator
412 Fourth Street
Moose Lake, MN 55767

Menahga City Administrator
P.O. Box C
Menahga, MN 56464

Mountain Iron City Admin.
8586 Enterprise Drive South
Mountain Iron, MN 55768

Motley City Clerk
316 Highway 10 South
Motley, MN 55466

Nevis City Clerk
P.O. Box 108
Nevis, MN 56467

Nimrod City Clerk
P O Box 943
Nimrod, MN 56478

Nisswa City Clerk
P.O. Box 410
Nisswa, MN 56468

Osakis City Clerk
P.O. Box 486
Osakis, MN 56360

Park Rapids City Clerk
212 West Second Street
Park Rapids, MN 56470

Pequot Lakes City Clerk
4638 County Road 11
Pequot Lakes, MN 56472

Pillager City Administrator
306 Elm Avenue W
Pillager, MN 56473

Pine River City Clerk
P.O. Box 87
Pine River, MN 56474

Proctor City Administrator
100 Pionk Drive
Proctor, MN 55810

Ranier City Administrator
P.O. Box 186
Ranier, MN 56668

Rice City Clerk
P.O. Box 179
Rice, MN 56367

Rice Lake City Clerk
4107 West Beyer Road
Duluth, MN 55803

Rutledge City Clerk
P.O. Box 444
Willow River, MN 55795

St. Anthony City Clerk
39016 County Road 153
Albany, MN 56307

St. Rosa City Clerk
41545 County Road 167
Melrose, MN 56352

Sandstone City Administrator
P.O. Box 641
Sandstone, MN 55072

Sebeka City Clerk
213 Minnesota Avenue West
Sebeka, MN 56477

Silver Bay City Administrator
7 Davis Drive
Silver Bay, MN 55614

Sturgeon Lake City Clerk
P.O. Box 98
Sturgeon Lake, MN 55783

Swanville City Clerk
P.O. Box 296
Swanville, MN 56382

Taconite City Clerk
P.O. Box 137
Taconite, MN 55786

Tower City Clerk
P.O. Box 576
Tower, MN 55790

Trommald City Clerk
24124 Cardinal Avenue
Trommald, MN 56441

Upsala City Clerk
P.O. Box 159
Upsala, MN 56384

Verndale City Clerk
P.O. Box 156
Verndale, MN 56481

Walker City Administrator
P.O. Box 207
Walker, MN 56484

Willow River City Clerk
P.O. Box 125
Willow River, MN 55795

Winton City Clerk
P.O. Box 163
Winton, MN 55796

Wrenshall City Clerk
P.O. Box 157
Wrenshall, MN 55797

Eagle Bend City Clerk
P.O. Box 215
Eagle Bend, MN 56446

Benton County Administrator
P.O. Box 129
Foley, MN 56329

Benton County Commissioners
615 Highway 23
Foley, MN 56329

Pine County Administrator
635 Northridge Dr. NW Ste 200
Pine City, MN 55063

Pine County Commissioners
635 Northridge Drive NW
Pine City, MN 55063

Morrison County Admin Ctr
213 First Avenue SE
Little Falls, MN 56345

Morrison County Commissioners
213 SE First Avenue
Little Falls, MN 56345

St. Louis County Administrator
100 N. 5th Avenue W Room 202
Duluth, MN 55802

St. Louis County Commissioners
100 North Fifth Avenue West
Duluth, MN 55802

Otter Tail County Administrator
520 First Avenue West
Fergus Falls, MN 56537

Otter Tail County Commissioners
121 West Junius Avenue
Fergus Falls, MN 56537

Itasca County Administrator
123 NE 4th Street
Grand Rapids, MN 55744

Itasca County Commissioners
123 Fourth Street NE
Grand Rapids, MN 55744

Carlton County Coordinator
301 Walnut Avenue
Carlton, MN 55718

MP's Service List to Counties and Municipalities

Carlton County Commissioners
301 Walnut Avenue
Carlton, MN 55718

Biwabik City Administrator
P.O. Box 529
Biwabik, MN 55708

Kanabec County Administrator
18 North Vine Street
Mora, MN 55051

Cass County Administrator
P.O. Box 3000
Walker, MN 56484

Buhl City Clerk
P.O. Box 704
Buhl, MN 55713

Kanabec County Commissioners
18 North Vine Street
Mora, MN 55051

Cass County Commissioners
303 Minnesota Avenue W
Walker, MN 56484

Ely City Clerk
209 E Chapman Street
Ely, MN 55731

Mille Lacs County Administrator
635 Second Street SE
Milaca, MN 56353

Lake County Administrator
616 Third Avenue
Two Harbors, MN 55616

Gilbert City Clerk
P.O. Box 548
Gilbert, MN 55741

Mille Lacs County Commiss.
635 Second Street SE
Milaca, MN 56353

Lake County Commissioners
601 Third Avenue
Two Harbors, MN 55616

Grand Rapids City Clerk
P.O. Box 658
Grand Rapids, MN 55741

Mille Lacs Band of Ojibwe
43408 Oodena Drive
Onamia, MN 56359

Todd County Administrator
215 First Ave S, Ste 300
Long Prairie, MN 56347

Hibbing City Administrator
401 East 21st Street
Hibbing, MN 55746

Fond Du Lac Reservation
1720 Big Lake Road
Cloquet, MN 55720

Todd County Commissioners
215 First Ave S, Ste 300
Long Prairie, MN 56437

Keewatin City Clerk
P.O. Box 86
Keewatin, MN 55753

Bois Forte Tribal Government
5344 Lakeshore Drive
Nett Lake, MN 55772

Crow Wing County Admin.
326 Laurel Street, Suite 13
Brainerd , MN 56401

McKinley City Clerk
P.O. Box 2088
McKinley, MN 55741

Leech Lake Band of Ojibwe
190 Sailstar Drive NW
Cass Lake, MN 56633

Crow Wing County Commiss.
213 Laurel Street
Brainerd, MN 56401

Nashwauk City Clerk
301 Central Avenue
Nashwauk, MN 55769

Agram Township Clerk
23647 118th Street
Pierz, MN 56364

Stearns County Administrator
705 Courthouse Square, Rm 121
St. Cloud, MN 56303

Pierz City Clerk
P.O. Box 367
Pierz, MN 56364

Akeley Township Clerk
15 Broadway St. W.
Akeley, MN 56433

Stearns County Commissioners
725 Courthouse Square
St. Cloud, MN 56303

Randall City Clerk
P.O. Box 229
Randall, MN 56475

Alborn Township Clerk
6388 Swan Lake Road
Alborn , MN 55702

Hubbard County Administrator
301 Court Avenue
Park Rapids, MN 56470

Staples City Clerk
122 Sixth Street NE Suite 1
Staples, MN 56479

Arbo Township Clerk
28915 Bello Circle
Grand Rapids, MN 55744

Hubbard County Commissioners
301 Court Avenue
Park Rapids, MN 56470

Two Harbors City Administrator
522 First Avenue
Two Harbors, MN 55616

Atkinson Township Clerk
505 Mason Drive
Wrenshall, MN 55797

Wadena County Administrator
415 Jefferson Street South
Wadena, MN 56470

Wadena City Clerk
222 2nd Street SE P.O. Box 30
Wadena, MN 56482

Balkan Township
P.O. Box 66
Chisholm, MN 55719

Wadena County Commissioners
415 Jefferson Street South
Wadena, MN 56482

Zemple City Clerk
731 Lake Street
Deer River, MN 56636

Bay Lake Township
13861 County Road 10
Deerwood , MN 56444

Koochiching County Admin.
715 Fourth Street
International Falls, MN 56649

Becker County Administrator
915 Lake Avenue
Detroit Lakes, MN 56501

Belle Prairie Township Clerk
16515 203rd Street
Little Falls, MN 56345

Koochiching County Commiss.
715 Fourth Street
International Falls, MN 56649

Becker County Commissioners
915 Lake Avenue
Detroit Lakes, MN 56502

Bellevue Township Clerk
9753 Iris Road
Royalton, MN 56373

MP's Service List to Counties and Municipalities

Blackhoof Township Clerk
2391 County Road 105
Barnum, MN 55707

Bruce Township Hall
26234 285th Avenue
Long Prairie, MN 56347

Bruno Township Clerk
55974 Sand Creek Road
Bruno, MN 55712

Buckman Township Clerk
5120 260th Avenue
Royalton, MN 56373

Cherry Township Clerk
4036 Hartman Road
Iron, MN 55751

Clinton Township Clerk
P.O. Box 147
Iron, MN 55751

Duluth Township Clerk
6092 Homestead Road
Duluth, MN 55804

Fall Lake Township Clerk
13550 Thirteen Corners
Ely, MN 55731

Finlayson Township Clerk
24193 Wooder Circle
Finlayson, MN 55735

Fredenberg Township Clerk
5104 Fish Lake Rd
Duluth, MN 55803

Gnesen Township
4011 W Pioneer Rd
Duluth, MN 55803

Grand Lake Township Clerk
P.O. Box 1023
Twig, MN 55791

Great Scott Township Clerk
P.O. Box 277
Kinney, MN 55758

Green Prairie Township Clerk
14513 190th Street
Little Falls, MN 56345

Greenway Township Clerk
550 5th Avenue
Calumet, MN 55716

Grey Eagle Township Clerk
P.O. Box 202
Grey Eagle, MN 56336

Henrietta Township Clerk
P.O. Box 81
Park Rapids, MN 56470

Hubbard Township Clerk
11757 County 106
Park Rapids, MN 56470

Ideal Township
35458 Butternut Point Road
Pequot Lakes, MN 56472

Iron Range Township Clerk
P.O. Box 96
Taconite, MN 55786

Irondale Township Clerk
19121 County Road 12
Ironton, MN 56455

Township Clerk
P.O. Box 71
Pequot Lakes, MN 56472

Lavell Township Clerk
1832 Danahy Road
Hibbing, MN 55746

Little Falls Township Clerk
20313 Highway 27
Little Falls, MN 56345

Little Sauk Township Clerk
18557 County 11
Long Prairie, MN 56347

Lone Pine Township Clerk
31469 E. Shore Drive
Pengilly, MN 55775

Long Prairie Township Clerk
23607 271st Avenue
Long Prairie, MN 56347

Mahtowa Township Clerk
3041 County Road 4
Carlton, MN 55718

Moose Lake Township Clerk
P.O. Box 193
Moose Lake, MN 55767

Partridge Township Clerk
67947 Sunrise Road
Bruno, MN 55712

Perch Lake Township Clerk
720 Salmi Road
Cloquet, MN 55720

Pike Creek Township Clerk
12202 130th Street
Little Falls, MN 56345

Powers Township Clerk
3416 Ox Yoke Road NW
Hackensack, MN 56452

Round Prairie Township Clerk
25442 204th Street
Long Prairie, MN 56347

Township Clerk
P.O. Box 34
Walker, MN 56484

Solway Township Clerk
4029 Munger Shaw Road
Cloquet, MN 55720

Sturgeon Lake Township
86917 Spring Creed Rd
Willow River, MN 55795

Thomson Township Clerk
P.O. Box 92
Esko, MN 55733

Breitung Township Clerk
P.O. Box 564
Soudan, MN 55782

Brevator Township Clerk
P.O. Box 623
Cloquet, MN 55720

Canosia Township Clerk
4896 Midway Road
Duluth, MN 55811

Fayal Town Clerk
4375 Shady Lane
Eveleth, MN 55791

Industrial Township Clerk
7578 Albert Road
Saginaw, MN 55779

Lakewood Township Clerk
3110 Strand Road
Duluth, MN 55803

Midway Township Clerk
3302 Midway Road
Duluth, MN 55810

Normanna Township Clerk
6083 Lakewood Road
Duluth, MN 55804

Town of White Clerk
P.O. Box 146
Aurora, MN 55705

Ward Township Clerk
26997 County 18
Browerville, MN 56438

Windemere Township Clerk
90117 Shoreside Land
Sturgeon Lake, MN 55783

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
	Minnesota Statutes and Rules	
7825.3200	Notice of Change in Rates	
	A utility filing for a change in rates shall serve notice to the commission at least 90 days prior to the proposed effective date of the modified rates. Such notice shall include the items prescribed below for:	Volume 1, Notice of Change in Rates
(A)	A. general rate changes: (1) proposal for change in rates as prescribed in part 7825.3500; (2) modified rates as prescribed in part 7825.3600; (3) expert opinions and supporting exhibits as prescribed in part 7825.3700; (4) informational requirements as prescribed in parts 7825.3800 to 7825.4400; and (5) statement indicating the method of insuring the payment of refunds as prescribed in part 7825.3300;	Volume 1, and see below for reference to parts 7825.3600, 7825.3700, 7825.3800-4400, and 7825.3300
7825.3300	Methods and Procedures for Refunding.	
	An unqualified agreement, signed by an authorized official of the utility, to refund to the customers or credit to customers' accounts within 90 days from the effective date of the commission order any portion of the increase in rates determined to be unreasonable together with interest at the average prime interest rate computed from the effective date of the proposed rates through the date of refund or credit.	Volume 1, Agreement and Undertaking
7825.3500	Proposal for Change in Rates	
	The Utility's proposal for a change in rates shall summarize the notice of change in rates and shall include the following information:	Volume 1, Notice of Change in Rates
(A)	name, address, and telephone number of the utility without abbreviation and the name and address and telephone number of the attorney for the utility, if there be one;	Volume 1, Notice of Change in Rates, Section B.1 and B.2
(B)	date of filing and date modified rates are effective;	Volume 1, Notice of Change in Rates, Section B.3
(C)	description and purpose of the change in rates requested;	Volume 1, Notice of Change in Rates, Section B.4
(D)	effect of the change in rates expressed in gross revenue dollars and as a percentage of test year gross revenue; and	Volume 1, Notice of Change in Rates, Section B.5
(E)	signature and title of utility officer authorizing the proposal.	Volume 1, Notice of Change in Rates, Section B.6

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
7825.3600	Modified Rates	
	Revised or new pages to the rate book previously filed with the commission and by identifying those pages which were not changed. In addition, each revised page shall contain the revision number and the page number of the revised page.	Volume 1, Interim Tariff Sheets – Redlined, Interim Tariff Sheets – Clean Volume 3, Direct Schedules J-01-Summary of Tariff Sheets Not Changed, J-02-Redlined General Tariff Sheets, J-03-Clean General Tariff Sheets
7825.3700	Expert Opinions and Supporting Exhibits	
	Expert opinions and supporting exhibits shall include written statements, in question and answer format, together with supporting exhibits of utility personnel and other expert witnesses as deemed appropriate by the utility in support of the proposal.	Volume 2, Direct Testimony and Schedules of Frank L. Frederickson, Patrick L. Cutshall, Ann E. Bulkley, Joshua G. Rostollan, Benjamin S. Levine, Julie I. Pierce, Joshua J. Skelton, Daniel W. Gunderson, Laura E. Krollman, Stewart J. Shimmin, and Marcia A. Podratz
7825.3900	Jurisdictional Financial Summary Schedule	
	A jurisdictional financial summary schedule as required by part 7825.3800 shall be filed showing:	
(A)	the proposed rate base, operating income, overall rate of return, and the calculation of income requirements, income deficiency, and revenue requirements for the test year;	Volume 1, Direct Schedule A-2 (IR) Volume 3, Direct Schedule A-1
(B)	the actual unadjusted average rate base consisting of the same components as the proposed rate base, unadjusted operating income, overall rate of return, and the calculation of income requirements, income deficiency, and revenue requirements for the most recent fiscal year; and	Volume 1, Direct Schedule D-5 (IR) Volume 3, Direct Schedule A-1
(C)	the projected unadjusted average rate base consisting of the same components as the proposed rate base, unadjusted operating income under present rates, overall rate of return, and the calculation of income requirements, income deficiency, and revenue requirements for the projected fiscal year.	Volume 3, Direct Schedule A-1

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
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Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
7825.4000	Rate Base Schedules	
	The following rate base schedules as required by part 7825.3800 shall be filed:	
(A)	A rate base summary schedule by major rate base component (e.g. plant in service, construction work in progress, and plant held for future use) showing the proposed rate base, the unadjusted average rate base for the most recent fiscal year and unadjusted average rate base for the projected fiscal year. The totals for this schedule shall agree with the rate base amounts included in the financial summary.	Volume 1, Direct Schedule A-3 (IR) and Direct Schedule D-1 (IR) Volume 3, Direct Schedule B-1
(B)	A comparison of total utility and Minnesota jurisdictional rate base amounts by detailed rate base component showing:	
(1)	total utility and the proposed jurisdictional rate base amounts for the test year including the adjustments, if any, used in determining the proposed rate base;	Volume 1, Direct Schedule B-1 (IR) Volume 3, Direct Schedule B-3
(2)	the unadjusted average total utility and jurisdictional rate base amounts for the most recent fiscal year and the projected fiscal year.	Volume 3, Direct Schedule B-4
(C)	Adjustment schedules, if any, showing the title, purpose, and description and the summary calculations of each adjustment used in determining the proposed jurisdictional rate base.	Volume 1, Direct Schedule B-3 (IR) Volume 3, Direct Schedules B-5 and B-6 Volume 2, Podratz Direct at Section IV.C Volume 4, Workpapers ADJ-RB 1 through ADJ-RB 15
(D)	A summary by rate base component of the assumptions made and the approaches used in determining average unadjusted rate base for the projected fiscal year. Such assumptions and approaches shall be identified and quantified into two categories: known changes from the most recent fiscal year and projected changes.	Volume 1, Direct Schedule B-2 (IR) Volume 3, Direct Schedules B-7 through B-14 Volume 4, Workpapers RB-1 through RB-40
(E)	For multijurisdictional utilities only, a summary by rate base component of the jurisdictional allocation factors used in allocating the total utility rate base amounts to the Minnesota jurisdiction. This summary shall be supported by a schedule showing for each allocation factor the total utility and jurisdictional statistics used in determining the proposed rate base and the Minnesota jurisdictional rate base for the most recent fiscal year and the projected fiscal year.	Volume 3, Direct Schedules B-15 through B-18 Volume 2, Shimmin Direct at Schedule 1

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
7825.4100	Operating Income Schedules	
	The following operating income schedules as required by part 7825.3800 shall be filed:	
(A)	A summary schedule of jurisdictional operating income statements which reflect proposed test year operating income, and unadjusted jurisdictional operating income for the most recent fiscal year and the projected fiscal year calculated using present rates.	Volume 1, Direct Schedule A-4 (IR) and Direct Schedule D-3 (IR) Volume 3, Direct Schedule C-1
(B)	For multijurisdictional utilities only, a schedule showing the comparison of total utility and unadjusted jurisdictional operating income statement for the test year, for the most recent fiscal year and the projected fiscal year. In addition, the schedule shall provide the proposed adjustments, if any, to jurisdictional operating income for the test year together with the proposed operating income statement.	Volume 1, Direct Schedule B-5 (IR) Volume 3, Direct Schedules C-3 and C-4
(C)	For investor-owned utilities only, a summary schedule showing the computation of total utility and allocated Minnesota jurisdictional federal and state income tax expense and deferred income taxes for the test year, the most recent fiscal year, and the project fiscal year. This summary schedule shall be supported by a detailed schedule, showing the development of the combined federal and state income tax rates.	Volume 3, Direct Schedules C-5 through C-8
(D)	A summary schedule of adjustments, if any, to jurisdictional test year operating income and detailed schedules for each adjustment providing an adjustment title, purpose and description of the adjustment, and summary calculations.	Volume 1, Direct Schedule B-7 (IR) Volume 3, Direct Schedules C-9 through C-11 Volume 2, Podratz Direct at V.A Volume 4, Workpapers, ADJ-IS-1 through ADJ-IS-33
(E)	A schedule summarizing the assumptions made and the approaches used in projecting each major element of operating income. Such assumptions and approaches shall be identified and quantified into two categories: known changes from the most recent fiscal year and projected changes.	Volume 1, Direct Schedule B-6 (IR) Volume 3, Direct Schedule C-12 Volume 4, Workpapers, IS-1 through IS-27a

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
(F)	For multijurisdictional utilities only, a schedule providing, by operating income element, the factor or factors used in allocating total utility operating income to Minnesota jurisdiction. This schedule shall be supported by a schedule which sets forth the statistics used in determining each jurisdictional allocation factor for the test year, the most recent fiscal year, and the projected fiscal year.	Volume 3, Direct Schedules C-13 through C-16 Volume 4, Workpapers, AF-1 through AF-6
7825.4200	Rate of Return Cost of Capital Schedules	
	The following rate of return cost of capital schedules as required by part 7825.3800 shall be filed:	
(A)	a rate of return cost of capital summary schedule showing the calculation of the weighted cost of capital using the proposed capital structure and the average capital structures for the most recent fiscal year and the projected fiscal year. This information shall be provided for the unconsolidated parent and subsidiary corporations, or for the consolidated parent corporation.	Volume 1, Direct Schedule D-6 (IR) Volume 3, Direct Schedule D-1 Volume 4, Workpapers, COC-1
(B)	supporting schedules showing the calculation of the embedded cost of long-term debt, if any, and the embedded cost of preferred stock, if any, at the end of the most recent fiscal year and the projected fiscal year.	Volume 3, Direct Schedule D-2
(C)	schedule showing average short-term securities for the proposed test year, most recent fiscal year, and the projected fiscal year.	Volume 3, Direct Schedule D-3 Volume 2, Cutshall Direct at Section I
7825.4300	Rate Structure and Design Information	
	The following rate structure and design information as required by part 7825.3800 shall be filed:	
(A)	A summary comparison of test year operating revenue under present and proposed rates by customer class of service showing the difference in revenue and the percentage change.	Volume 3, Direct Schedule E-1 Volume 4, Workpapers IR-1
(B)	A detailed comparison of test year operating revenue under present and proposed rates by type of charge including minimum, demand, energy by block, gross receipts, automatic adjustments, and other charge categories within each rate schedule and within each customer class of service.	Volume 3, Direct Schedules E-1 and E-2 Volume 4, Workpapers, IR-2
(C)	A cost-of-service study by customer class of service, by geographic area, or other categorization as deemed appropriate for the change in rates requested, showing revenues, costs, and profitability for each class of service, geographic area, or other appropriate category, identifying the procedures and underlying rationale for cost and revenue allocations. Such study is appropriate whenever the utility proposed a change in rates which results in a material change in its rate structure.	Volume 3, Direct Schedule E-3 Volume 4, Workpapers, COS 1 through COS-4

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
7825.4400	Other Supplemental Information	
	The following supplemental information as required by part 7825.3800 shall be filed:	
(A)	Annual report to stockholders or members including financial statement and statistical supplements for the most recent fiscal year. If a utility is not audited by an independent public accountant, unaudited financial statements will satisfy this filing requirement.	Volume 3, Direct Schedule F-1
(B)	For investor-owned utilities only, a schedule showing the development of the gross revenue conversion factor.	Volume 3, Direct Schedule F-2
(C)	For cooperatives only, REA Form 7, Financial and Statistical Report for the last month of the most recent fiscal year.	N/A
(D)	For cooperatives only, REA Form 7A, Annual Supplement to Financial and Statistical Report.	N/A
(E)	For REA cooperatives only, REA Form 325, Financial Forecast.	N/A
7829.2400	Filing requiring determination of gross revenue.	
Subpart 1	Summary. A utility filing a general rate case or other filing that requires determination of its gross revenue requirement shall include, on a separate page, a brief summary of the filing, sufficient to apprise potentially interested parties of its nature and general content.	Volume 1, Summary of Filing
Subpart 2	Service. A utility filing a general rate change request shall serve copies of the filing on the department and the Office of the Attorney General. The utility shall serve the filing or the summary described in Subpart 1 on the persons on the applicable general service list and persons who were parties to its last general rate case or incentive plan proceeding.	Volume 1, Notice of Change in Rates and Service List
Subpart 3	Notice to public and governing bodies. A utility seeking a general rate change shall give notice of the proposed change to the governing body of each municipality and county in its service area and to its ratepayers. The utility shall also public notice of the proposed change in newspapers of general circulation in all county seats in its service area.	Volume 1, Proposed Notice to Counties and Municipalities
Minn. Stat. § 216B.16		
Subd. 1	Unless the commission otherwise orders, no public utility shall change a rate which has been duly established under this chapter, except upon 60 days' notice to the commission. The notice shall include statements of facts, expert opinions, substantiating documents, and exhibits, supporting the change requested, and state the change proposed to be made in the rates then in force and the time when the modified rates will go into effect.	Volume 1, Notice of Change in Rates

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Section of Application
	<p>If the filing utility does not have an approved energy conservation improvement plan on file with the department, it shall also include in its notice an energy conservation plan pursuant to section 216B.241. A filing utility subject to rate regulation under section 216B.026 shall reference in its notice the energy conservation improvement plans of the generation and transmission cooperative providing energy conservation improvement programs to members of the filing utility pursuant to section 216B.241.</p>	<p>See <i>In the Matter of Minnesota Power's 2017-2019 Electric Conservation Improvement Program Plan</i>, Docket No. E015/CIP-16-117, DECISION (Nov. 3, 2016).</p> <p><i>In the Matter of Extending the 2017-2019 CIP Triennial Plans Through 2020</i>, Docket No. E015/CIP-16-117, DECISION (Apr. 11, 2019).</p> <p><i>In the Matter of Extending Minnesota Power's 2017-2019 CIP Triennial Plans Through 2020</i>, Docket No. E015/CIP-16-117, 2020 Triennial Conservation Improvement Program Extension (Jul. 1, 2019).</p>
	<p>The filing utility shall give written notice, as approved by the commission, of the proposed change to the governing body of each municipality and county in the area affected.</p>	<p>Volume 1, Proposed Notice to Counties and Municipalities</p>
	<p>All proposed changes shall be shown by filing new schedules or shall be plainly indicated upon schedules on file and in force at the time.</p>	<p>Volume 1, Interim Tariff Sheets – Redlined, Interim Tariff Sheets – Clean</p> <p>Volume 3, Direct Schedules J-01-Summary of Tariff Sheets Not Changed, J-02-Redlined General Tariff Sheets, J-03-Clean General Tariff Sheets</p>

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Completeness Checklist

Source	Information Required	Section of Application
Subd 3(b)	Interim rate. (b) Unless the commission finds that exigent circumstances exist, the interim rate schedule shall be calculated using the proposed test year cost of capital, rate base, and expenses, except that it shall include: (1) a rate of return on common equity for the utility equal to that authorized by the commission in the utility's most recent rate proceeding; (2) rate base or expense items the same in nature and kind as those allowed by a currently effective order of the commission in the utility's most recent rate proceeding; and (3) no change in the existing rate design. In the case of a utility which has not been subject to a prior commission determination, the commission shall base the interim rate schedule on its most recent determination concerning a similar utility.	Volume 1, Notice and Petition for Interim Rates
Subd. 8	Advertising expense. (a) The commission shall disapprove the portion of any rate which makes an allowance directly or indirectly for expenses incurred by a public utility to provide a public advertisement which: (1) is designed to influence or has the effect of influencing public attitudes toward legislation or proposed legislation, or toward a rule, proposed rule, authorization or proposed authorization of the Public Utilities Commission or other agency of government responsible for regulating a public utility; (2) is designed to justify or otherwise support or defend a rate, proposed rate, practice or proposed practice of a public utility; (3) is designed primarily to promote consumption of the services of the utility; (4) is designed primarily to promote good will for the public utility or improve the utility's public image; or (5) is designed to promote the use of nuclear power or to promote a nuclear waste storage facility. (b) The commission may approve a rate which makes an allowance for expenses incurred by a public utility to disseminate information which: (1) is designed to encourage conservation of energy supplies; (2) is designed to promote safety; or (3) is designed to inform and educate customers as to financial services made available to them by the public utility. (c) The commission shall not withhold approval of a rate because it makes an allowance for expenses incurred by the utility to disseminate information about corporate affairs to its owners.	Volume 2, Podratz Direct at Section V.A.12 Volume 3, Direct Schedule G-1 and Direct Schedule C-9 Volume 4, Workpapers, ADJ-IS-1

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Source	Information Required	Section of Application
Subd. 9	Charitable contribution. The commission shall allow as operating expenses only those charitable contributions that the commission deems prudent and that qualify under section 300.66, subdivision 3. Only 50 percent of the qualified contributions are allowed as operating expenses.	Volume 2, Podratz Direct at Section V.A.11 Volume 3, Direct Schedule G-2; Direct Schedule C-9 Volume 4, Workpapers, ADJ-IS-10
Subd. 13	Economic and community development. The commission may allow a public utility to recover from ratepayers the expenses incurred for economic and community development.	Volume 2, Podratz Direct at Section V.A.10 Volume 3, Direct Schedule G-5 and Direct Schedule C-9 Volume 4, Workpapers, ADJ-IS-19
Subd. 17	(a) The commission may not allow as operating expenses a public utility's travel, entertainment, and related employee expenses that the commission deems unreasonable and unnecessary for the provision of utility service. In order to assist the commission in evaluating the travel, entertainment, and related employee expenses that may be allowed for ratemaking purposes, a public utility filing a general rate case petition shall include a schedule separately itemizing all travel, entertainment, and related employee expenses as specified by the commission, including but not limited to the following categories: (1) travel and lodging expenses; (2) food and beverage expenses; (3) recreational and entertainment expenses; (4) board of director-related expenses, including and separately itemizing all compensation and expense reimbursements; (5) expenses for the ten highest paid officers and employees, including and separately itemizing all compensation and expense reimbursements; (6) dues and expenses for memberships in organizations or clubs; (7) gift expenses; (8) expenses related to owned, leased, or chartered aircraft; and (9) lobbying expenses.	Volume 2, Podratz Direct at Section 16 and Section 17 Volume 2, Rostollan Direct at Section III.C, Section IV, and Direct Schedules 10 and 11 Volume 3, Direct Schedules H-1 to H-11.

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Source	Information Required	Section of Application
	(b) To comply with the requirements of paragraph (a), each applicable expense incurred in the most recently completed fiscal year must be itemized, separately, and each itemization must include the date of the expense, the amount of the expense, the vendor name, and the business purpose of the expense. The separate itemization required by this paragraph may be provided using standard accounting reports already utilized by the utility involved in the rate case, in a written format or an electronic format that is acceptable to the commission. For expenses identified in response to paragraph (a), clauses (1) and (2), the utility shall disclose the total amounts for each expense category and provide separate itemization for those expenses incurred by or on behalf of any employee at the level of vice president or higher and for board members. The petitioning utility shall also provide a one-page summary of the total amounts for each expense category included in the petitioning utility's proposed test year.	Volume 2, Rostollan Direct at Section III.C, Section IV, and Direct Schedules 10 and 11 Volume 3, Direct Schedules H-1 to H-11
	(c) Except as otherwise provided in this paragraph, data submitted to the commission under paragraph (a) are public data. The commission or an administrative law judge assigned to the case may treat the salary of one or more of the ten highest paid officers and employees, other than the five highest paid, as private data on individuals as defined in section 13.02, subdivision 12, or issue a protective order governing release of the salary, if the utility establishes that the competitive disadvantage to the utility that would result from release of the salary outweighs the public interest in access to the data. Access to the data by a government entity that is a party to the rate case must not be restricted.	Volume 3, Direct Schedule H-5A.
Commission Policy Statements		
Policy Statement		
Advertising	Statement that recovery is requested only for permitted advertisements.	Volume 2, Podratz Direct at Section V.A.12
	Description of advertisements for which recovery is requested.	Volume 2, Podratz Direct at Section V.A.12 Volume 3, Direct Schedule G-1 and Direct Schedule C-9 Volume 4, Workpapers, ADJ-IS-1

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	<p>Sample advertisements for which recovery is requested, including a schedule that:</p> <ol style="list-style-type: none"> 1. Identifies the sample ad. 2. Categorizes the advertisements by allowable and disallowable type. 3. Defines the percentage by which the content fits into the allowable and disallowable statutory categories. 4. Provides the corresponding test year dollar amount for each ad. 5. Describes the period of time during which each ad will be used, the service area in which it will appear, and the media employed. 	<p>Volume 3, Direct Schedule G-1</p> <p>Volume 4, Workpapers, ADJ-IS-1</p>
Charitable Contributions	Evidence as to whether the recipients of the contributions: serve the utility's Minnesota service area; are nondiscriminatory in selecting recipients; and do not promote political or special interest groups.	<p>Volume 2, Podratz Direct at Section V.A.11</p> <p>Volume 3, Direct Schedule G-2</p> <p>Volume 4, Workpapers, ADJ-IS-10</p>
	Evidence as to what organizations are gifted, their activities, and that no part of the contribution goes to benefit any private stockholder or individual.	<p>Volume 3, Direct Schedule G-2</p> <p>Volume 4, Workpapers, ADJ-IS-10</p>
	Itemized schedule showing amount, recipient and time of donations.	<p>Volume 3, Direct Schedule G-2</p> <p>Volume 4, Workpapers, ADJ-IS-10</p>
Organizational Dues	Schedule showing each organization being paid, the number of employees belonging to each organization and the dollar amount of dues being paid to each organization.	<p>Volume 2, Podratz Direct at Section V.A.13</p> <p>Volume 2, Rostollan Direct at Section IV.C</p> <p>Volume 3, Direct Schedule G-3</p> <p>Volume 4, Workpapers, ADJ-IS-25</p>

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Source	Information Required	Section of Application
	Testimony explaining whether the primary purpose of each organization is educating utility employees about providing improved utility service, training employees to become better qualified to provide improved utility service, or membership is a necessary qualification for employees to carry on their responsibilities or provides essential information to the utility.	Volume 2, Podratz Direct at Section V.A.13 Volume 2, Rostollan Direct at Section IV.C Volume 3, Direct Schedule G-3 Volume 4, Workpapers, ADJ-IS-25
Research Expenses	A schedule which describes each research activity for which an expense is claimed and itemizes and supports all expense for each activity.	Volume 2, Podratz Direct at Section V.A.14 Volume 3, Direct Schedule G-4 Volume 4, Workpapers, ADJ-IS-27
	Testimony that explains the nature of control of the research, identifies who will conduct the research, describes who will benefit from the research and the time needed for those benefits to accrue, and who will acquire property rights to the products that result from the research.	Volume 2, Podratz Direct at Section V.A.14 Volume 3, Direct Schedule G-4 Volume 4, Workpapers, ADJ-IS-27
Cash Working Capital	Lead/lag study with: 1) lead time divided into service to meter reading; meter reading to billing; and billing to collection; and 2) lag expenses divided into categories such as fuel, purchased power, labor, etc.	Volume 2, Podratz Direct at Section IV.B Volume 4, Workpapers, OS-2
	Other issues may include average minimum cash balances required, depreciation, dividends and interest on debt.	Volume 2, Podratz Direct at Section IV.C.11 Volume 3, Direct Schedule B-14 Volume 4, Workpapers OS-2 (Lead Lag Study); ADJ-RB-12; ADJ-IS-32

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Source	Information Required	Section of Application
Commission's Statement of Policy on Interim Rates Adopted April 14, 1982	http://mn.gov/puc-stat/documents/pdf_files/012031.pdf	
Page 2(1)	Name, address, and telephone number of utility without abbreviation and the name, address, and telephone number of the attorney for the utility, or other representative upon whom official service may be made.	Volume 1, Notice and Petition for Interim Rates, Section B.1
Page 2(2)	Date of filing and date proposed interim rates are requested to become effective.	Volume 1, Notice and Petition for Interim Rates, Section B.2
Page 2(3)	Description and need for interim rates.	Volume 1, Notice and Petition for Interim Rates, Section B.3
Page 2(4)	Description and corresponding dollar amount changes included in interim rates as compared with most current approved general rate case and with the most recent actual year for which audited data is available. The data for the most recent actual year should be for the same time period in months as the test year, if the test year is a projected test year.	Volume 1, Notice and Petition for Interim Rates, Section B.4 and Direct Schedules C-1 (IR) to C-8 (IR) and D-1 (IR) to D-7
Page 2(5)	Effect of the interim rates expressed in gross revenue dollars and as a percentage of test year gross revenues.	Volume 1, Notice and Petition for Interim Rates, Section B.5 and Direct Schedule C-5 (IR)
Page 2(6)	Certification by officer of the utility that affirms the proposed interim rate petition is in compliance with Minnesota Statutes.	Volume 1, Notice and Petition for Interim Rates, Section B.6 Volume 1, Certification
Page 2(7) ¹	Signature and title of the utility officer authorizing the proposed interim rates.	Volume 1, Notice and Petition for Interim Rates, Section B.8
Page 3(1)	A schedule showing the interim rate of return calculation. This schedule should show the capital structure and rate of return calculation approved by the Commission in the most recent general rate case; the capital structure and rate of return calculation proposed for interim rates; and a description and corresponding dollar amount of any changes between the two capital structures.	Volume 1, Notice and Petition for Interim Rates, Section B.9 and Schedules

¹ Item 7 actually appears on Page 3 of the Statement of Policy.

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Source	Information Required	Section of Application
Page 3(2)	A schedule showing the interim operating income statement. This schedule should show the same operating income statement accounts as filed in the general rate case. Also, the schedule should include the operating income statement approved by the Commission in the most recent general rate case; the equivalent operating income statement corresponding with the most recent actual year for which audited data is available and corresponding with the same period in months as the test year, if the test year is a projected test year; and the operating income statement proposed for interim rates. A description of all changes and corresponding dollar amounts between each of the operating income statements should be provided. Work papers should be provided which show how revenues, AFUDC, taxes, expenses, and other income statement components have been determined.	Volume 1, Notice and Petition for Interim Rates, Section B.9 and Schedules Volume 4, Workpapers, RB-1 through RB-40, IS-1 through IS-28
Page 3(3)	A schedule showing the interim proposed rate base. This schedule should include the average rate base approved by the Commission in the most recent general rate case; the equivalent average rate base corresponding with the most recent actual year for which audited data is available and corresponding with the same period in months as the test year, if the test year is a projected test year; and the average rate base proposed for interim rates. A description of all changes and corresponding dollar amounts between each of the rate bases should be provided. Workpapers should be provided which show how the rate base components have been determined.	Volume 1, Notice and Petition for Interim Rates, Section B.9 and Schedules Volume 4, Workpapers, IR-1 and IR-2
Page 3(4) ²	A schedule showing revenue deficiency calculations for each of the operating income statements and rate bases requested in (2) and (3) above. The revenue deficiency should be calculated for the actual data and the interim data using the rate of return calculated in (1) above.	Volume 1, Notice and Petition for Interim Rates, Section B.9 and Schedules
	Modified Tariffs	Volume 1, Notice and Petition for Interim Rates, Section B.10 Volume 1, Interim Tariff Sheets – Redlined; Interim Tariff Sheets – Clean

² Item 4 actually appears on Page 4 of the Statement of Policy.

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Source	Information Required	Section of Application
	Notices	<p>Volume 1, Notice and Petition for Interim Rates Section B.11</p> <p>Volume 1, Proposed Notice to Counties and Municipalities; Proposed Notice to Customers; Proposed Newspaper Publication</p>
All Utility Dockets		
E999/CI-03-869	In the Matter of Detailing Criteria and Standards for Measuring an Electric Utility's Good Faith Efforts in Meeting the Renewable Energy Objectives Under Minn. Stat. § 216B.1691	
E999/CI-04-1616	In the Matter of a Commission Investigation into a Multi-State Tracking and Trading System for Renewable Energy Credits	
ORDER ESTABLISHING INITIAL PROTOCOLS FOR TRADING RENEWABLE ENERGY CREDITS (DEC. 18, 2007)	Utilities seeking recovery of prudent costs related to registration, annual fees and transaction costs related to renewable energy credit purchases shall file specific proposals for cost recovery, to be reviewed by the Department and other parties.	Volume 3, Podratz Direct at Section X.A
E,G999/CI-08-132	In the Matter of a Commission Investigation into the Establishment of Criteria and Standards for the Decoupling of Energy Sales from Revenues	
ORDER ESTABLISHING CRITERIA AND STANDARDS TO BE UTILIZED IN PILOT PROPOSALS FOR REVENUE DECOUPLING (JUNE 19, 2009)	[If a utility seeks Commission approval for a pilot decoupling proposal,] decoupling pilot proposals should be filed and implemented within a rate case.	Minnesota Power has not included any proposal for decoupling in this rate case.
E999-AA-09-961	In the Matter of the Review of the 2008-2009 Annual Automatic Adjustment Reports for All Electric Utilities	
ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND REQUIRING ADDITIONAL FILINGS (APR. 6, 2012)	The Commission will require the utilities to continue to show benefits of the MISO Day 1 in their rate cases before receiving cost recovery of MISO Schedule 10 costs.	Volume 2, Pierce Direct at Section III.A

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Source	Information Required	Section of Application
E999/AA-10-884	In the Matter of the Review of the 2009-2010 Annual Automatic Adjustment Reports for All Electric Utilities	
ORDER ACTING ON ELECTRIC UTILITIES' ANNUAL REPORTS AND REQUIRING ADDITIONAL FILINGS (APR. 6, 2012)	The Commission will require the utilities to continue to show benefits of MISO Day 1 in their rate cases before receiving cost recovery of MISO Schedule 10 costs.	Volume 2, Pierce Direct at Section III.A
Minnesota Power Dockets		
E015/AI-08-339	In the Matter of Minnesota Power's Petition for Approval of an Administrative Services Agreement between ALLETE, Inc. and its Subsidiary, ALLETE Properties, LLC (f/k/a MP Real Estate Holdings, Inc.)	
E015/AI-08-340	In the Matter of Minnesota Power's Petition for Approval of an Administrative Services Agreement Between ALLETE, Inc. and its Subsidiary, Superior Water, Light and Power (SWL&P)	
E015/AI-08-341	In the Matter of Minnesota Power's Petition for Approval of an Administrative Services Agreement Between ALLETE, Inc. and its Subsidiary, Minnesota Power Enterprises, Inc. (MP Enterprises)	
ORDER (JAN. 13, 2009)	The Company must demonstrate in future rate cases that the First Amendment to the Services Agreement has not resulted in cross-subsidization by Minnesota Power's ratepayers of the activities of its affiliated companies.	Volume 2, Rostollan Direct at Section III.B and Section III.D

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Source	Information Required	Section of Application
E015/PA-08-928	In the Matter of a Petition for Approval of a Redevelopment Agreement for the M.L. Hibbard Units 3 & 4 Boilers and Related Facilities from the City of Duluth and for Approval of Investments and Expenditures at the M.L. Hibbard Energy Center Through Minnesota Power's Renewable Energy Rider under Minn. Stat. § 216B.1645	
ORDER APPROVING PURCHASE AND MAKING FINDINGS RELEVANT TO RECOVERY OF UPGRADE EXPENDITURES THROUGH THE RENEWABLE ENERGY RIDER (SEPT. 22, 2009)	Order Point 4(a) MP shall address, in the first rate case after Hibbard goes into service and in all subsequent rate cases until the Commission orders otherwise, whether the Hibbard facility is used and useful in providing retail utility service and whether the investments and related expenses and revenues are reasonable and prudently incurred.	Volume 2, Skelton Direct at Section IV.C
E015/GR-09-1151	In the Matter of the Application of Minnesota Power for Authority to Increase Rates for Electric Service in Minnesota	
FINDINGS OF FACT, CONCLUSIONS, AND ORDER (NOV. 2, 2010)		
Order Point 17.	The Company shall account for future lobbying expenses by assigning both employee and contract lobbying expenses to FERC Account 426.4 and excluding this category from operating and maintenance expenses recovered from ratepayers.	Volume 2, Rostollan Direct at Section IV.E Volume 2, Podratz Direct at Section V.A.16
Order Point 18	The Company shall continue working with the [Division of Energy Resources] on improving the electronic linkage between its Class Cost of Service Study, its forecasting processes, and its revenue models.	Volume 2, Podratz Direct at Section VIII.A
Order Point 19	In future rate case filings, the Company shall provide all data used in its test year sales forecasts at least 30 days before filing the rate case.	Data submitted on September 27, 2019, in Docket No. E015/GR-19-442.
Order Point 20	In future rate case filings, the Company shall conduct any Class Cost of Service Study (CCOSS) by calculating and assigning income taxes by class based on the adjusted net taxable income by class as determined by the CCOSS.	Volume 2, Shimmin Direct at Section II and Direct Schedule 1

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Source	Information Required	Section of Application
E015-GR-16-664	In the Matter of the Application of Minnesota Power for Authority to Increase Rates for Electric Service in Minnesota	
FINDINGS OF FACT, CONCLUSIONS, AND ORDER (MAR. 12, 2018)		
Order Point 13	Recovery of the Taconite Harbor two restart costs will end after the total estimated costs of \$2.5 million for two restart events is recovered.	Volume 2, Skelton Direct at Section IV.B.
Order Point 19	Minnesota Power may include \$350,000 in O&M expense in the test year for credit-card-processing fees. The Company shall track over/under-collections for true-up in a future rate case.	Volume 2, Podratz Direct at Section V.A.24 and Schedule 4 Volume 4, Workpaper ADJ-IS-18
Order Point 36	Minnesota Power shall reduce its revenue requirement to remove proration of accumulated deferred income taxes (ADIT). Proration of ADIT is required for interim rates.	Volume 2, Cutshall Direct at Section VI.C Volume 4, Workpaper ADJ-RB-15
Order Point 47	In future rate cases, cost recovery for facilities shall be rolled in at the beginning of the rate case, and then no longer be recovered in riders, or facilities and rider collections shall be rolled into the rate case at the end of the rate case if Minnesota Power wants to continue rider recovery.	Volume 2, Gunderson Direct at Section III.C Volume 2, Podratz Direct at Section II Volume 2, Shimmin Direct at Section VI Volume 2, Skelton Direct at Section IV.F
E015/M-16-776	In the Matter of Minnesota Power's Renewable Resources Rider and 2017 Renewable Factor	
NOVEMBER 8, 2017 ORDER	Minnesota Power must return any amortized federal investment tax credits associated with Thomson Hydro to ratepayers through future RRR filings until they can be included in base rates in a subsequent rate case	Volume 2, Podratz Direct at Section X.B

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Source	Information Required	Section of Application
E015-PA-17-457	In the Matter of the Petition of Minnesota Power for Approval of a Purchase Agreement for the Sale of the Aurora Service Center to Lakehead Constructors, Inc.	
E015-PA-17-459	In the Matter of the Petition of Minnesota Power for Approval of a Purchase Agreement for the Sale of the Chisolm Service Center to United Way of Northeastern Minnesota, Inc.	
E015-PA-17-460	In the Matter of the Petition of Minnesota Power for Approval of a Purchase Agreement for the Sale of Land and Buildings near the Boswell Energy Center to Airmark, Inc. d/b/a Nelson Wood Shims	
E015-PA-17-461	In the Matter of the Petition of Minnesota Power for Approval of a Purchase Agreement for the Purchase of the Long Prairie Service Center from the State of Minnesota Department of Military Affairs	
ORDER APPROVING PURCHASES AND SALES WITH CONDITIONS (Feb. 8, 2018)	2.A. Minnesota Power shall do the following: Use deferred accounting to create a regulatory liability for these transactions as recommended by the Minnesota Department of Commerce	Volume 2, Podratz Direct at Section V.A.23
E015-AI-17-568	In the Matter of Minnesota Power’s Petition for Approval of EnergyForward Resource Package	
ORDER APPROVING AFFILIATED-INTEREST AGREEMENTS WITH CONDITIONS (JAN. 24, 2019)	4. In any future rate case in which Minnesota Power seeks to recover costs associated with the NTEC purchase, the Company will be required to prove the propriety of the costs associated with this deal structure in contrast to other cost structures that the Company chose not to use, which would include a PPA-like levelized payment structure.	Not applicable; Minnesota Power is not seeking recovery of costs associated with the NTEC purchase in this rate case filing.
E015/D-18-544	In the Matter of Minnesota Power’s 2018 Remaining Life Depreciation Petition (Docket No. 18-544)	
JANUARY 14, 2019 ORDER	3. Required Minnesota Power to record supplemental depreciation expense of \$2.0 million for the Boswell Common Facilities, and \$0.8 million for Boswell Unit 3, amortized for 36 months. 4. Required Minnesota Power to include in any future request for cost recovery all adjustments necessary to ensure that ratepayers bear no additional expense as a result of the errors in the 2017 depreciation accruals for Boswell Unit 3 and the Boswell Common Facilities. [“The Company stated that if it were to file a rate case during the amortization period, it would exclude the amortizations in order to ensure that ratepayers would not be impacted.”]	Volume 2, Podratz Direct at Section IV.C.3

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Source	Information Required	Section of Application
E999/M-17-377	In the Matter of the 2017 Biennial Transmission Projects Report	
JUNE 12, 2018 ORDER	The Department requested a summary of all mitigation measures added at any step in the permitting process for new energy facilities, the reason for the mitigation measure, the entity requesting mitigation, and the cost of the measure. Minnesota Power provided a statement of no objection to providing information on the cost of mitigation measures in future rate recovery requests for new energy facilities.	N/A
E999/CI-03-802	In the Matter of an Investigation into the Appropriateness of Electric Energy Cost Adjustments	
COMMISSION OCTOBER 17, 2019 AGENDA MEETING (Written order pending at time of filing)	Decision Option 3. Require Minnesota Power to demonstrate in its upcoming initial rate case filing that its proposed base rates do not include any amount of FCA costs.	Volume 2, Podratz Direct at Section VII.C
E015/M-16-664	In the Matter of the Application of Minnesota Power for Authority to Increase Rates for Electric Service in Minnesota	
TESTIMONY COMMITMENTS TO THE DEPARTMENT OF COMMERCE	MP to confirm that \$94,931,550 is the estimated revenues for base rider cash included in the rate case.	Volume 2, Podratz Direct at Section X.C
	All MP financial witnesses will need to tie out their numbers to the overall revenue witness. MP may use their responsibility center information and numbers, but MP must also include all additional information and numbers (such as overheads, allocations, third party costs, and revenues) that tie out to the FERC accounts.	Volume 2, Podratz Direct at Section X.C
	All numbers should be provided on a Total Company basis, and Minnesota Jurisdictional basis, with reference and support for allocators used.	Volume 2, Podratz Direct at Section X.C
	Financial schedules should fully support the test year revenue requirement. For example while transmission expenditures in a year can be helpful information, the Company needs also to provide the actual plant in service and retirement amounts that support the Company's test year.	Volume 2, Podratz Direct at Section X.C
	All schedules should be clearly labeled to reflect, for example, whether the schedule shows capital expenditures, capital additions and retirements, expenses, and the basis (Total Company or MN Jurisdictional).	Volume 2, Podratz Direct at Section X.C
	All schedules in a rate case should break out the rider recovery and rate case recovery.	Volume 2, Podratz Direct at Section X.C

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Additional Compliance Items from E015/GR-16-664

Source	Information Required	Compliance Filing
E015-GR-16-664	In the Matter of the Application of Minnesota Power for Authority to Increase Rates for Electric Service in Minnesota	
FINDINGS OF FACT, CONCLUSIONS, AND ORDER (MAR. 12, 2018)		
Order Point 22	The Company shall continue to provide customer refunds in the event that actual AIP payouts are lower than the level approved in the rate case.	July 23, 2019 filing in Docket No. E015/GR-16-664 eDocket Document ID 20197-154598-01 Volume 2, Krollman Direct at Section III.B
Order Point 37	True-up annually in the renewable rider PTCs approved in the test year and associated ADIT.	Volume 2, Cutshall Direct at Section VI.B
Order Point 54	Work with interested parties to improve transparency in future MP class cost of service studies. Submit within 12 months a compliance filing explaining the improvements including the updated CCOSS version and guide or if not yet completed at the 12 month deadline, a timeline for completion and future compliance filings.	May 22, 2019 filing in Docket No. E015/GR-16-664 eDocket Document ID 20195-153092-01 Volume 2, Shimmin Direct at Section II
Order Point 55	MP must file a status report within six months of this order, which will identify the Company's efforts to that date to facilitate review of its CCOSS model or adopt a new model. The parties shall also consider the concerns raised by the Commission staff.	November 29, 2018 filing in Docket No. E015/GR-16-664 eDocket Document ID 201811-148068-01 Volume 2, Shimmin Direct at Section II

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Completeness Checklist

Source	Information Required	Compliance Filing
Order Point 72	The Company shall work with LPI and other stakeholders to develop a demand response rider and corresponding methodology for cost recovery based on stakeholder input. The record to support the submission may be developed in either Docket E015/AI-17-568 – OAH Docket 68-2500-34672 or a miscellaneous docket. If MP, LPI, and other stakeholders elect to proceed with a new miscellaneous docket, such filing shall be submitted for Commission approval within six months after the date of the final written order.	December 7, 2018 filing in Docket No. E015/M-18-735 eDocket Document ID 201812-148328-01 Volume 2, Frederickson Case Overview Direct at Section V.B.4 Volume 2, Podratz Direct at Section IX.H
Order Point 80(b)	Provide annual updates about the Green Pricing Program (including information on participation, administration costs, and certification costs) to monitor the price of the program.	August 9, 2019 filing in Docket No. E015/GR-16-664 eDocket Document ID 20198-155081-01
Order Point 80(d)	Require MP to file a proposal as to how to address the situation where the price of renewable PPAs become consistently lower than the price of MP’s overall power mix or consider now, or in the future, whether it may be a reasonable policy to charge customers participating in the green pricing program a lower rate if the price of renewable energy resources used for the program drops below the price for MP’s existing resource mix.	November 29, 2018 filing in Docket No. E015/GR-16-664 eDocket Document ID 201811-148114-01
Order Point 81	MP is ordered to work with Wal-Mart and any other interested stakeholders to develop one or more renewable programs suitable for large customers and report to the Commission the results of such development within six months of the date of this order.	November 29, 2018 filing in Docket No. E015/GR-16-664 eDocket Document ID 201811-148114-02

***In the Matter of the Application of Minnesota Power for Authority to Increase Rates for
Electric Utility Service in Minnesota***

Docket No. E015/GR-19-442

Completeness Checklist

Source	Information Required	Compliance Filing
Page 93	The Company shall file by May 1 each year (in a new miscellaneous docket) an annual compliance filing to show the number of customers served on the Business Development Incentive Rider, together with each customer’s incremental revenue and costs; and energy audits should be required for all Rider customers.	April 30, 2019 filing in Docket No. E015/M-19-295 eDocket Document ID 20194-152519-01
ORDER GRANTING RECONSIDERATION IN PART, REVISING MARCH 12, 2018 ORDER, AND OTHERWISE DENYING RECONSIDERATION PETITIONS (MAY 29, 2018)	Order Point 1.C. In lieu of a securitization plan, the Company shall continue to explore securitization and, within two years of the date of this order, file a report on securitization, informed by the input of stakeholders, including the OAG and the Clean Energy Organizations	Volume 2, Skelton Direct at Section IV.A

**In the Matter of the Application of
Minnesota Power for Authority to Increase
Rates for Electric Utility Service in
Minnesota**

Docket No. E015/GR-19-442

CERTIFICATE OF SERVICE

I, **Kristin M. Stastny**, hereby certify that on the **1st** day of **November, 2019**, on behalf of Minnesota Power, I electronically filed a true and correct copy of Minnesota Power's Application for Authority to Increase Electric Service Rates in Minnesota on www.edockets.state.mn.us. A summary of the filing was provided via electronic service or United States First Class Mail as designated on the attached service list.

Dated this 1st day of November, 2019

/s/ Kristin M. Stastny
Kristin M. Stastny

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