

TITLE PAGE

MINNESOTA POWER

ELECTRIC RATE BOOK

This book contains Minnesota Power's retail rates and related information per the Minnesota Department of Public Service Initial Filing Instructions issued November 18, 1974 and is the Company's official Electric Rate Book on file with the Office of Energy Security.

The Minnesota Power official responsible for this rate book is:

Marcia A. Podratz
Director - Rates

Authorizing Signature *Marcia A. Podratz*

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Director - Rates

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RESIDENTIAL SERVICE

RATE CODES

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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.

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 or 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

	General & Space Heating	Seasonal
Service Charge	\$8.00	\$8.80
0 kwh to 300 kwh	5.098¢	
301 kwh to 500 kwh	6.735¢	
501 kwh to 750 kwh	8.168¢	
751 kwh to 1000 kwh	8.445¢	
Over 1000 kwh	8.937¢	
All kWh (¢/kWh)		8.235¢

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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RESIDENTIAL SERVICE

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.
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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).
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.
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.
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. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.
7. There shall be added to the monthly bill, as computed above, an Affordability Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).
8. 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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RESIDENTIAL SERVICE

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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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 extension 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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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 or 120/240 volts, supplied through one meter at one point of delivery.

RATE (Monthly)

Service Charge \$8.00

Energy Charge
All kWh (per kWh) 5.178¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

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

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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Director - Rates

RESIDENTIAL DUAL FUEL INTERRUPTIBLE 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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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.

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. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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 extension agreement.

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RESIDENTIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

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 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 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) 4.332¢

Plus any applicable Adjustments.

MINIMUM CHARGE (Monthly)

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

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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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RESIDENTIAL CONTROLLED ACCESS ELECTRIC SERVICE

3. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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

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. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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 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.

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RESIDENTIAL 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.

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Director - Rates

RESIDENTIAL OFF-PEAK ELECTRIC VEHICLE SERVICE

RATE CODES

28

APPLICATION

To electric service for residential customers for the sole purpose of recharging electric vehicle(s) 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 \$4.25

Energy Charge
All kWh (per kWh) 4.332¢

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 4.332¢ per kWh energy charge shown above.

MINIMUM CHARGE (Monthly)

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

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.

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RESIDENTIAL OFF-PEAK ELECTRIC VEHICLE SERVICE

- b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
- c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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

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. The combination of the fuel adjustment and the Conservation Program Adjustment shall be shown on customer's bill as the Resource Adjustment.

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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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.

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RESIDENTIAL OFF-PEAK ELECTRIC VEHICLE SERVICE

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. 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. 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.
5. 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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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 \$10.50

Energy Charge for all kWh 7.836¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$10.50

Demand Charge for all kW \$5.86

Energy Charge for all kWh 5.288¢

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.

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GENERAL SERVICE

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 \$1.75 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 of 0.284¢ 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 Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.
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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).
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.
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.
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.

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Director - Rates

GENERAL SERVICE

7. There shall be added to the monthly bill, as computed above, an Affordability Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).
8. 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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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% and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% 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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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

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	\$10.50
High Voltage Service	\$10.50

Energy Charge

Low Voltage Service	5.178¢ per kWh
High Voltage Service	4.791¢ 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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Marcia A. Podratz
Director - Rates

COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.
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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).
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.
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.
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.
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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth Franchise Fee.

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Marcia A. Podratz
Director - Rates

COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC 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.

CONTRACT PERIOD

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 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 in excess of its Mid-Continent Area Power Pool (MAPP) accredited generating capability,
- (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 capacity related needs before interruptions for any certified interruptible loads for Large Power, Large Light and Power, and General Service (those loads that meet the requirements specified in the MAPP Procedure for the Certification of Interruptible Demand).

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.

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Marcia A. Podratz
Director - Rates

COMMERCIAL/INDUSTRIAL DUAL FUEL INTERRUPTIBLE ELECTRIC SERVICE

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 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 Mid-Continent Area Power Pool 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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Marcia A. Podratz
Director - Rates

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	\$10.50
Low Voltage Service	\$10.50

Energy Charge

High Voltage Service	4.032¢ per kWh
Low Voltage Service	4.332¢ 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 Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.181¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.

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Marcia A. Podratz
Director - Rates

COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

- b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
- c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.
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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).
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.
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.
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.
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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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.

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Marcia A. Podratz
Director - Rates

COMMERCIAL/INDUSTRIAL CONTROLLED ACCESS ELECTRIC SERVICE

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.
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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Marcia A. Podratz
Director - Rates

LARGE LIGHT AND POWER SERVICE

RATE CODES

55

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	\$1,100.00
All additional kW of Billing Demand (\$/kW)	\$9.30

Energy Charge

All kWh (¢/kWh)	3.722¢
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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 \$1.75 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 0.284¢ per kWh of Energy.

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Marcia A. Podratz
Director - Rates

LARGE LIGHT AND POWER SERVICE

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

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.108¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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.

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.

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

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Marcia A. Podratz
Director - Rates

LARGE LIGHT AND POWER SERVICE

8. 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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth Franchise Fee.

DETERMINATION OF THE BILLING DEMAND

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 amount by which the greatest adjusted demand during the preceding eleven months exceeds 100 kW, but not more than 75% of such adjusted demand. 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% and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% 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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Marcia A. Podratz
Director - Rates

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 55/75 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 55/75 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.
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).

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Director - Rates

COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

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 Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.108¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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.

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Marcia A. Podratz
Director - Rates

COMPETITIVE RATE SCHEDULE - LARGE LIGHT AND POWER SERVICE

3. Bills for service within the corporate limits of the City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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. 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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Marcia A. Podratz
Director - Rates

LARGE POWER SERVICE

RATE CODES

54

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.

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Marcia A. Podratz
Director - Rates

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.

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.

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Marcia A. Podratz
Director - Rates

LARGE POWER SERVICE

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.

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	\$216,276
All additional kW of Firm Demand (\$/kW)	\$19.85

Energy Charge

All Firm Energy kWh (¢/kWh) (All On-Peak and Off-Peak)	1.232¢
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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 Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.078¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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Marcia A. Podratz
Director - Rates

LARGE POWER 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 Power Adjustment / Conservation Adjustment / Resource 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 adjustment will be determined in accordance with the Rider for Conservation Program Adjustment. The combination of the Fuel and Purchased Power adjustment and the Conservation Program Adjustment will be shown on customer's bill as the Resource Adjustment.

4. AREA Adjustment. An emissions-reduction adjustment will be determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

7. CARE Affordability Surcharge: There shall be added to the monthly bill, as computed above, an Affordability 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. 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. City of Duluth Franchise Fee. An adjustment for customers located within the corporate limits of the City of Duluth as specified in the Rider for City of Duluth Franchise Fee.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

LARGE POWER SERVICE

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 the greater of the kW of Customer's Adjusted Demand or such higher Firm Demand 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.

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.

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Marcia A. Podratz
Director - Rates

LARGE POWER SERVICE

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

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Director - Rates

LARGE POWER SERVICE

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.

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Marcia A. Podratz
Director - Rates

LARGE POWER SERVICE

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. 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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Marcia A. Podratz
Director - Rates

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 \$259,531

All additional kW of Non-Contract Billing Demand (\$/kW) \$23.82

Energy Charge

All Firm Energy kWh (¢/kWh) (All On-Peak and Off-Peak) 1.232¢

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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Marcia A. Podratz
Director - Rates

NON-CONTRACT LARGE POWER SERVICE

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.078¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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.

6. There shall be added to the monthly bill, as computed above, an Affordability 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. 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.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

NON-CONTRACT LARGE POWER SERVICE

9. Bills for service within the corporate limits of the City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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.

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 58/78 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.

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Marcia A. Podratz
Director - Rates

NON-CONTRACT 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.

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 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.

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Marcia A. Podratz
Director - Rates

NON-CONTRACT LARGE POWER SERVICE

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

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 54/74 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 54/74 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 54/74 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.

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Marcia A. Podratz
Director - Rates

NON-CONTRACT LARGE POWER 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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Marcia A. Podratz
Director - Rates

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 54/74 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 54/74 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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Director - Rates

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 Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.078¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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.

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Director - Rates

COMPETITIVE RATE SCHEDULE - LARGE POWER SERVICE

3. Bills for service within the corporate limits of the City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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. 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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Marcia A. Podratz
Director - Rates

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
Mercury Vapor Lamps			(Option 2 Closed to New Installation)	(Option 3 Closed to New Installation)	
7,000 Lumens (175 watts)	K	11.60	8.06		
20,000 Lumens (400 watts)	M/P	18.36	12.69		
55,000 Lumens (1,000 watts)	Q	34.38	24.57		
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	I	10.19	5.86	5.86	
14,000 Lumens (150 watts)	X	11.73	7.44		
23,000 Lumens (250 watts)	J/G	16.65	9.89	9.96	
45,000 Lumens (400 watts)	Z	22.22	13.23	10.59	
Metal Halide Lamps					
17,000 Lumens (250 watts)	R	16.44			
28,800 Lumens (400 watts)	S	20.12		11.84	
88,000 Lumens (1,000 watts)	U	33.39		22.42	
Pole Charge Each pole used for service under this schedule only		6	\$4.70	\$4.70	\$4.70
Energy Charge - Per kWh			Included	Included	Included
					5.882¢

Plus any applicable adjustments

ADJUSTMENTS

- The following Interim Adjustments shall be applied to billings for electric service:
 - An adder of 0.817¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.

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Marcia A. Podratz
Director - Rates

OUTDOOR AND AREA LIGHTING SERVICE

- b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
- c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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.

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.

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. 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 City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth Franchise Fee.

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Marcia A. Podratz
Director - Rates

OUTDOOR AND AREA LIGHTING 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.

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	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burning Hours	4,200	462	379	367	302	264	233	252	294	336	401	435	475
Monthly kWh usage per lamp by type													
G	1,224	135	110	107	88	77	68	73	86	98	117	127	138
I	504	56	46	44	36	32	28	30	35	40	48	52	57
J	1,224	135	110	107	88	77	68	73	86	98	117	127	138
K	888	98	80	78	64	56	49	53	62	71	85	92	100
M	1,932	213	174	169	139	121	107	116	135	155	184	200	219
P	1,932	213	174	169	139	121	107	116	135	155	184	200	219
Q	4,620	508	417	404	332	290	256	277	323	370	441	479	523
R	1,260	139	114	110	91	79	70	76	88	101	120	130	142
S	1,932	213	174	169	139	121	107	116	135	155	184	200	219
U	4,410	485	398	385	317	277	245	264	309	353	421	457	499
X	756	83	68	66	54	48	42	45	53	60	72	78	87
Z	2,016	222	182	176	145	127	112	121	141	161	192	209	228

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

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.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

OUTDOOR AND AREA LIGHTING SERVICE

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.

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

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Director - Rates

OUTDOOR AND AREA LIGHTING SERVICE

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.

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.

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Director - Rates

OUTDOOR AND AREA LIGHTING SERVICE

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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Marcia A. Podratz
Director - Rates

ERIE MINE SITE SERVICE

RATE CODES

72

TERRITORY

Applicable to customers located at or close to the former Erie Mine Site near Hoyt Lakes, Minnesota.

APPLICATION

To the electric service requirements of any new industrial, mining or manufacturing Customer(s) located at the former Erie Mine Site or, subject to the prior written approval of the Company, at any other location in or around Hoyt Lakes, Minnesota where service can be taken from the Company's 138 kV transmission line. Service hereunder is limited to Customers with total power requirements of at least 2,000 kilowatts (kW) per Customer and not more than 25,000 kW in total for all customers. Customer and Company shall execute an Electric Service Agreement having a minimum term of one (1) year (subject to the early termination option of the Company set forth below). Any service under this Schedule must commence on or before January 1, 2008.

If, at any time after this Rate Schedule becomes effective, Company chooses to retire the Taconite Harbor generating station or convert the Taconite Harbor generating station to a fuel source other than coal, new service under this schedule shall immediately cease to be available, and, commencing on January 1 of the next calendar year after the date of retirement or conversion, any existing service under this rate schedule shall terminate. Company shall, in the event of such a retirement or conversion, provide timely written notice to any existing Customer taking service under this Rate Schedule. Existing Customer(s) shall choose an alternative Rate Schedule or be assigned to an applicable Rate Schedule by the Company.

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

TYPE OF SERVICE

Three phase, 60 hertz, metered at Company's available transmission voltage of 115,000 or 138,000 volts.

Filing Date <u> December 23, 2015 </u>	MPUC Docket No. <u> E015/M-14-166 </u>
Effective Date <u> January 1, 2016 </u>	Order Date <u> September 5, 2014 </u>

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

ERIE MINE SITE SERVICE

RATE

Shall consist of the following components: A. Generation Capacity Charge, B. Energy Charge, C. Transmission Service Charge, and D. Billing/Customer Charge.

A. Generation Capacity Charge

The Generation Capacity Charge shall be \$17.88 per kW per month for calendar year 2016. The Generation Capacity Charge for each subsequent year shall be recalculated annually by December 31 using budget data for the subsequent year. The Generation Capacity Charge shall be the sum of Company's budgeted: i) net book value of the Taconite Harbor facilities multiplied by Company's allowed retail pre-tax cost of long-term debt, ii) Taconite Harbor depreciation and amortization expense, iii) Taconite Harbor property tax expense, and iv) Taconite Harbor fixed operating and maintenance expense. The capital investment and incremental operating and maintenance costs that are recovered through Company's Rider for Arrowhead Regional Emission Abatement (AREA) shall be excluded from the preceding calculations. The above total shall be increased by the MISO Planning Reserve Margin percentage as incorporated in the Company's most recent Commission approved Resource Plan to account for reserve capacity supply, divided by the Taconite Harbor installed capacity in kW, and averaged over 12 months to result in a monthly Generation Capacity Charge to be applied to each kW of Customer's Billing Demand.

B. Energy Charge

The Energy Charge shall be determined monthly based on a combination of the average monthly Taconite Harbor energy cost and Company's hourly incremental energy cost, as follows:

- During hours when at least two of the three Taconite Harbor units are available, the Energy Charge shall be equal to the average monthly Taconite Harbor energy cost.
- During hours when fewer than two of the three Taconite Harbor units are available, the Energy Charge shall be equal to 50% of the average monthly Taconite Harbor energy cost plus 50% of the Company's hourly incremental energy cost.

The Taconite Harbor energy cost for each month shall be the total cost of fuel consumed by the Taconite Harbor units during the month, plus all fixed and variable operating and maintenance expenses not included in the Generation Capacity Charge, divided by the net energy produced by the Taconite Harbor units during the month.

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ERIE MINE SITE SERVICE

The Company's hourly incremental energy cost shall include fuel costs and variable operation and maintenance expenses for generating or purchasing the energy, and shall be the highest cost energy after assigning lower cost energy to all firm retail and wholesale customers including all inter-system pool sales which involve capacity on a firm or participation basis, and to all interruptible sales to Large Power, Large Light and Power, and General Service customers.

The Energy Charge shall be applicable to all kilowatt-hours (kWh) of energy taken by Customer in the month.

C. Transmission Service Charge

The Transmission Service Charge shall be equal to the Large Power transmission demand cost determined in Company's latest retail cost of service study approved by the Minnesota Public Utilities Commission (MPUC) as part of a general retail rate case, adjusted to exclude the estimated pre-tax return on equity component of costs associated with the transmission assets acquired from LTV. The Transmission Service Charge shall be applicable monthly to each kW of Billing Demand. This rate shall be \$2.59 per kW per month.

D. Billing/Customer Charge

\$5000/month

ADJUSTMENTS

1. If Customer is taking service from Company at the same location under an Electric Service Agreement or other Company Schedule that includes a Billing/Customer Charge as part of that Agreement or Schedule, then the Customer shall not be billed the Billing/Customer Charge contained in this Schedule.
2. There shall be added to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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Director - Rates

ERIE MINE SITE 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 resource adjustment determined in accordance with the Rider for Renewable Resources.
5. There shall be added to the monthly bill, as computed above, an Affordability 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. There shall be added to the monthly 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.

METERED AND MEASURED DEMAND

The Metered Demand in the month shall be the kW measured during the 15-minute period of Customer's greatest use during the month.

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

BILLING DEMAND

1. Billing Demand in the month is the kW of demand specified in the Customer's Electric Service Agreement.

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ERIE MINE SITE SERVICE

2. Company may increase the Billing Demand, at its option, after written notice to Customer, if the Customer's Measured Demand exceeds 110% of Customer's Billing Demand applicable at the time. Customer's increased Billing Demand shall be the sum of the Billing Demand in effect for the previous billing period and the amount by which the Measured Demand exceeds 110% of such Billing Demand. Any increased Billing Demand resulting under this paragraph shall be the Billing Demand for the remaining term of the Electric Service Agreement unless further revised in accordance with this paragraph and/or other terms and conditions of the Electric Service Agreement.

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 Company on or before such due date and shall not be considered as payment received until the funds are usable or collectible by Company. If payment is not received on or before the due date printed on the bill, the bill shall be past due and delinquent.

SERVICE CONDITIONS

1. 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 required facilities which are not supported by this rate.
2. Customer shall be responsible for any additional costs imposed on Company's system due to the operating characteristics of Customer's load, including, but not limited to, costs associated with regulation and frequency response (continuous balancing of resources with load to maintain scheduled interconnection frequency at sixty cycles per second) and reactive supply and voltage control (operation of generation facilities to produce or absorb reactive power in order to maintain transmission voltages within generally accepted limits).

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Marcia A. Podratz
Director - Rates

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.

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 \$10.50

Energy Charge

All kWh (¢/kWh) 7.836¢

CUSTOMERS WITH A DEMAND METER

Service Charge \$10.50

Demand Charge

All kW (\$/kW) \$6.20

Energy Charge

All kWh (¢/kWh) 5.163¢

Plus any applicable Adjustments.

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.

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Marcia A. Podratz
Director - Rates

MUNICIPAL PUMPING

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 1.082¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.
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, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).
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.
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.
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.
7. There shall be added to the monthly bill, as computed above, an Affordability Surcharge determined in accordance with the Pilot Rider for Customer Affordability of Residential Electricity (CARE).
8. 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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Director - Rates

MUNICIPAL PUMPING

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 Municipalities other than City of Duluth within the corporate limits of the City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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 \$1.75 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 0.284¢ 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% and dividing by the average monthly power factor in percent when the average monthly power factor is less than 85% 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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Marcia A. Podratz
Director - Rates

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

<u>Lamp Type & Size</u> Sub rate code	<u>CIS Code</u>	Rate Per Fixture 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 (Closed to New Installations)					
7,000 Lumens (175 watts)	K	15.94	8.33	8.06	
10,000 Lumens (250 watts)	L			10.18	
20,000 Lumens (400 watts)	M	21.33	14.23	13.76	
55,000 Lumens (1,000 watts)	O			25.22	
Sodium Vapor Lamps					
8,500 Lumens (100 watts)	I	13.62	6.83	6.48	
14,000 Lumens (150 watts)	X	15.73	8.59	8.33	
14,000 Lumens (150 watts)	A			8.33	
20,500 Lumens (200 watts)	F	18.32	10.08	9.95	
23,000 Lumens (230 watts)	G	19.77	11.05	10.75	
45,000 Lumens (400 watts)	Z	24.22	14.95	14.09	
Metal Halide Lamps					
28,800 Lumens (400 watts)	S		13.11		
Light Emitting Diode (LED)					
4,000 Lumens (54 watts or less)	W	12.74			
8,800 Lumens (118 watts or less, but more than 54 watts)	Y	16.60			
Energy Charge - Per kWh		Included	Included	Included	5.882¢
Plus any applicable adjustments					

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Marcia A. Podratz
Director - Rates

STREET AND HIGHWAY LIGHTING SERVICE

ADJUSTMENTS

1. The following Interim Adjustments shall be applied to billings for electric service:
 - a) An adder of 0.817¢/kWh shall be applied to reflect the changes in the average cost of fuel and purchased energy.
 - b) An adder shall be applied to reflect the costs associated with the Boswell 4 Emission Reduction, Renewable Resources, and Transmission Cost Recovery riders.
 - c) There shall also be added an Interim Rate Adjustment equal to 5.07% of the billing for electric service including the above adders.

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 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. There shall be add to the monthly bill, as computed above, an emissions-reduction adjustment determined in accordance with the Rider for Arrowhead Regional Emission Abatement (AREA).

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.

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.

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.

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. 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.

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Director - Rates

STREET AND HIGHWAY LIGHTING SERVICE

9. Bills for service to parties other than the City of Duluth within the corporate limits of the City of Duluth shall include an upward adjustment as specified in the Rider for City of Duluth 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

**Fixture
CIS**

Code	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Burning Hours	4,200	462	379	367	302	264	233	252	294	336	401	435	475
Monthly kWh usage per fixture by type													
A	468	52	42	41	34	29	26	28	33	37	45	48	53
C	1,356	149	122	119	98	85	75	81	95	109	130	140	153
F	1,140	125	103	100	82	72	63	68	80	91	109	118	129
G	1,224	135	110	107	88	77	68	73	86	98	117	127	138
I	504	56	46	44	36	32	28	30	35	40	48	52	57
K	888	98	80	78	64	56	49	53	62	71	85	92	100
L	1,224	135	110	107	88	77	68	73	86	98	117	127	138
M	1,932	213	174	169	139	121	107	116	135	155	184	200	219
O	4,620	508	417	404	332	290	256	277	323	370	441	479	523
S	1,932	213	174	169	139	121	107	116	135	155	184	200	219
V	2052	226	185	179	147	129	114	123	144	164	196	213	232
W	230	24	22	19	17	15	14	13	15	18	22	24	27
X	756	83	68	66	54	48	42	45	53	60	72	78	87
Y	512	54	49	43	38	33	30	28	34	40	49	54	60
Z	2,016	222	182	176	145	127	112	121	141	161	192	209	228

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.

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Marcia A. Podratz
Director - Rates

STREET AND HIGHWAY 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

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.

Filing Date November 2, 2016 MPUC Docket No. E015/GR-16-664
Effective Date May 1, 2017 Order Date April 13, 2017

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

STREET AND HIGHWAY LIGHTING SERVICE

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.
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.

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Marcia A. Podratz
Director - Rates

STREET AND HIGHWAY LIGHTING SERVICE

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 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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Marcia A. Podratz
Director - Rates

RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT

FUEL AND PURCHASED ENERGY ADJUSTMENT

Applicable to electric service under all Company's Retail Rate Schedules except Competitive Rate Schedules Rate Codes 73 and 79 and Erie Mine Site Service Schedule - Rate Code 72.

There shall be added to or deducted from the monthly bill an amount per kilowatt-hour determined as the amount by which the Fuel and Purchased Energy Costs divided by the actual Kilowatt-Hour Sales is greater than or less than the Base Cost of Energy as specified below.

The System Average Fuel and Purchased Energy (FPE) Cost shall be the FPE Cost divided by the Kilowatt-Hour Sales. The System Average FPE Adjustment shall be the System Average FPE Cost less the System Average Base Cost of Energy. The applicable FPE Adjustment will be included monthly on each customer's bill according to customer's rate class.

AVERAGE FUEL AND PURCHASED ENERGY COST

The Fuel and Purchased Energy Cost shall be the sum of the following during the first two of the preceding three months: (a) the fossil and nuclear fuel consumed in Company's generating stations, (b) the net energy cost of energy purchases, exclusive of capacity or demand charges (irrespective of the designation assigned to such transaction) when such energy is purchased on an economic dispatch basis, this encompasses energy being purchased to substitute for Company's own higher cost energy, (c) the actual identifiable fossil and nuclear fuel costs associated with energy purchased for reasons other than identified in (b) above, (d) the cost of steam from other sources used in the generation of electricity at the Company's generating stations, (e) the cost of the Released Energy Credit paid to Customer(s) for avoided energy purchases under the Rider for Released Energy, (f) the cost of the Buyback Energy Credit paid to Customer(s) for avoided energy purchases under the Rider for Voluntary Energy Buyback, (g) fuel and purchased energy expenses incurred by the Company over the duration of any Commission approved contract, as provided for by Minnesota Statutes, Section 216B.1645, to satisfy the renewable energy obligations set forth in Minnesota Statutes, Section 216B.1691, (h) all MISO costs net of revenues allowed to flow through the FPE Adjustment by Commission's December 20, 2006 Order in Docket No. E-015/M-05-277, excluding the MISO Day 2 costs that are recovered under provision (b) of the FPE Rider, and (i) the cost of the purchase of SO₂ allowances, and less (j) revenues from the sale of SO₂ allowances, (k) the cost of fossil and nuclear fuel and the cost of steam from other sources recovered through inter-system sales including the fuel and steam costs related to economy energy sales and other energy sold on an economic dispatch basis and (l) net revenues from the sale of environmental attributes from any Commission approved contract. The Kilowatt-Hour Sales shall be Company's total kilowatt-hour Sales of Electricity, excluding inter-system sales referred to in (k) above; all for the first two of the preceding three months.

Filing Date November 2, 2009 MPUC Docket No. E015/GR-09-1151
Effective Date June 1, 2011 Order Date November 2, 2010

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR FUEL AND PURCHASED ENERGY ADJUSTMENT

CLASS COST FACTORS

A separate Class Cost Factor shall be applied to calculate the Base Cost of Energy and FPE Adjustment for each Rate Class.

Rate Class	Class Cost Factor
Residential	1.07076
General Service	1.07093
Large Light & Power	1.00424
Large Power	0.97769
Municipal Pumping	0.98103
Lighting	0.74029

BASE COST OF ENERGY

The System Average Base Cost of Energy is 1.018¢/kWh. The class-specific Base Cost of Energy for each rate class is obtained by multiplying 1.018¢/kWh by the applicable Class Cost Factor.

Rate Class	Base Cost of Energy
Residential	1.090¢/kWh
General Service	1.090¢/kWh
Large Light and Power	1.022¢/kWh
Large Power	0.995¢/kWh
Municipal Pumping	0.999¢/kWh
Lighting	0.754¢/kWh

FUEL AND PURCHASED ENERGY ADJUSTMENT

The FPE Adjustment for each rate class shall be determined by multiplying the System Average FPE Adjustment by the applicable Class Cost Factor.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

TEMPORARY SERVICE RIDER TO GENERAL SERVICE SCHEDULES

Any customer whose use of service may be temporary (less than one year duration) shall receive service under the Conditions of this Rider in conjunction with a General Service Schedule modified as follows:

CONDITIONS

1. Customer will pay in advance the estimated cost of installation and removal, less salvage, of facilities required to render service. Where the actual cost of providing such facilities is different from the advance payment, as determined upon completion of temporary service, Company will refund any excess payment made by Customer or render a bill for any additional costs.
2. Customer may at any time terminate service under this Rider and contract to receive future service under any applicable Schedule.
3. If Customer requests that service be discontinued and subsequently requests restoration of service at the same premises within 12 months of discontinuance, the charge for restoring service will be the sum of the minimum bills during the elapsed period but not less than all costs of discontinuing and restoring service. The minimum bills during the elapsed period shall also include any billings which would have been applicable as a result of the minimum under the below Modification.

MODIFICATION

The second paragraph under DETERMINATION OF THE BILLING DEMAND in the applicable General Service rate schedule shall be changed to read as follows:

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 greatest adjusted demand during the preceding eleven months, nor less than the minimum demand specified in customer's contract.

Filing Date May 2, 2008 MPUC Docket No. E015/GR-08-415
Effective Date October 1, 2009 Order Date August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

SPORTS FIELD LIGHTING RIDER TO GENERAL SERVICE SCHEDULES

Any customer may elect to receive service for sports field lighting under the Conditions of this Rider in conjunction with a General Service Schedule modified as follows:

CONDITIONS

1. Service is available hereunder only to the extent that Company has unused capacity in facilities at the location. Customer shall pay any cost of extending or increasing the capacity of facilities.
2. Customer will own, install and maintain any transformers or other facilities required to utilize the available line voltage.

MODIFICATIONS

1. Service will be at the available line voltage (and phase).
2. The HIGH VOLTAGE SERVICE provision will not be applicable.
3. Demand will not be measured.

Filing Date May 2, 2008 **MPUC Docket No.** E015/GR-08-415
Effective Date October 1, 2009 **Order Date** August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR MULTIPLE METER SERVICE

APPLICATION

To any customer's electric service requirements when the total electric requirements are supplied through more than one meter, and such services were being received on April 1, 1977. It is anticipated that after April 1, 1977, there may be conditions under which it will be desirable and/or necessary to provide service to customers at more than one point of delivery (Multiple Meter Service). Therefore at Company's discretion, a customer not receiving multiple meter service on April 1, 1977, or receiving multiple meter service but desiring an additional point of delivery may receive such service upon completion and proper approval of "Request for Multiple Meter Service".

CONDITIONS

1. When service is being taken through more than one meter, the metered quantities of demand (kW) and energy (kWh) at each metered point of service shall be billed under a separate application of a standard rate schedule.
2. The conditions under which a "Request for Multiple Meter Service" may be approved include but are not limited to:
 - a. Customer's premises are divided by a public road or alley preventing the customer from performing its own distribution of service.
 - b. Customer's buildings or operations are geographically separated to the extent that it is not electrically feasible for the customer to perform its own distribution of service.
 - c. The location and/or adequacy of existing Company facilities make it economically more advantageous for Company to provide an additional point of delivery.
 - d. Customers having two or more separate businesses on one premises for which the electric service costs must be accounted for separately.

Filing Date May 2, 2008 **MPUC Docket No.** E015/GR-08-415
Effective Date October 1, 2009 **Order Date** August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR EXPEDITED BILLING PROCEDURES

APPLICATION

Applicable to taconite producing customers taking Large Power Service under Schedule 54/74 under Non-Contract Large Power Service Schedule 78, and under any other Large Power rate schedules in effect from time to time.

Service received under Large Light and Power Schedule 55/75 by a taconite producing Large Power customer may also be billed in accordance with this Rider, at the option of Minnesota Power.

Non-taconite customers taking service under a Large Power Service rate schedule may, at their option, be billed in accordance with the terms of this Rider.

The monthly billing requirement of Minnesota Rule 7820.3300 is modified to permit expedited weekly billing of a customer's electric service in accordance with the terms of this Rider.

TERMS

1. After instituting weekly billing, the bill payment is due in "same day funds" seven (7) days following issuance of the bill, the "Due Date" for payment. "Same day funds" means funds that are available for the Company's use on the same day as the Due Date. Bills not paid in "same day funds" on or before such Due Date as printed on the bill are "past due", or "delinquent." The weekly billing is based on estimated weekly electric service usage, including the minimum demand charge, not on an actual meter reading. Weekly billing payments received and charges for actual electric service usage will be reconciled each month ("actual billing true-up"). The monthly actual billing true-up shall be reflected on the first weekly billing rendered after such true-up amount has been determined. See Exhibit 1 to this Rider.

2. Customers subject to this Rider will receive credit for expedited billing payments reflecting the time value of funds made available to Minnesota Power earlier than such funds otherwise would have been available under the Company's standard monthly billing cycle. When the customer makes its first payment under the expedited cycle, the time value of money associated with that payment will be determined from the due date of that payment to the customer's due date under the standard monthly billing cycle, using prime plus two and one-half percent (2.5%) as the interest rate.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR EXPEDITED BILLING PROCEDURES

This time value of money credit ("TVMC") will be determined for each of the succeeding expedited payments. If the customer has not made timely payment of the estimated bills in full in "same day funds" as they become due on the expedited due dates, no time value of money associated with such late payment will be included in the TVMC. The total TVMC determined in a month shall be wire transferred by Minnesota Power to the customer on that customer's due date under the standard monthly billing cycle. The mechanics of this credit are shown on Exhibit 1 of this Rider. The prime rate is defined as the average of the daily prime lending rates offered to preferred customers at the largest bank in the Ninth Federal Reserve District in effect during the month preceding the bill.

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Marcia A. Podratz
Director - Rates

MINNESOTA POWER
Sample Weekly Billing Procedure
Assuming Procedure Commences January 1

Jan Tue 1
Wed 2
Thu 3
Fri 4 Bill #1 Issued = 4/31 x Estimated Monthly Billing (EMB) for January

Fri 11 Bill #2 Issued = 7/31 x EMB for January
Bill #1 Due

Fri 18 Bill #3 Issued = 7/31 x EMB for January
Bill #2 Due

Fri 25 Bill #4 Issued = 7/31 x EMB for January
Bill #3 Due

Jan Thu 31 Meter Read
Feb Fri 1 Bill #5 Issued = 6/31 x EMB for January + 1/28 x EMB for February
Bill #4 Due

Mon 4 Charges for actual January usage determined
January TVMC calculated to February 19th

Fri 8 Bill #6 Issued = 7/28 x EMB for February
Bill #5 Due
January Actual Billing True-Up amount determined

Fri 15 Bill #7 Issued = 7/28 x EMB for February + Actual Billing True-Up amount for January
Bill #6 Due

Tue 19 January TVMC is wire transferred

Fri 22 Bill #8 Issued = 7/28 x EMB for February
Bill #7 Due

Feb Thu 28 Meter Read
Mar Fri 1 Bill #9 Issued = 6/28 x EMB for February + 1/31 x EMB for March
Bill #8 Due

Mon 4 Charges for actual February usage determined
February TVMC calculated to March 19th

Fri 8 Bill #10 Issued = 7/31 x EMB for March
Bill #9 Due
February Actual Billing True-Up amount determined

Fri 15 Bill #11 Issued = 7/31 x EMB for March + Actual Billing True-Up amount for February
Bill #10 Due

Tue 19 February TVMC is wire transferred

Filing Date November 2, 2009 **MPUC Docket No.** E015/GR-09-1151
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Marcia A. Podratz
Director - Rates

MINNESOTA POWER
Sample Monthly Adjustments

January Time Value of Money Credit (TVMC from page 1) assuming Bill #'s 1 thru 5 are paid in full and when due:

January TVMC =

Bill #1 x [(# days from Jan 11 to Feb 19)/365] x (Avg Daily Prime Rate in December + 2.5%) +

Bill #2 x [(# days from Jan 18 to Feb 19)/365] x (Avg Daily Prime Rate in December + 2.5%) +

Bill #3 x [(# days from Jan 25 to Feb 19)/365] x (Avg Daily Prime Rate in December + 2.5%) +

Bill #4 x [(# days from Feb 1 to Feb 19)/365] x (Avg Daily Prime Rate in December + 2.5%) +

Jan portion of Bill #5 x [(# days from Feb 8 to Feb 19)/365] x (Avg Daily Prime Rate in December + 2.5%)

January Actual Billing True-Up Adjustment =

Sum of Payments for January service received on or before Feb 19 - Actual Charges for January usage

February Time Value of Money Credit (TVMC from page 1) assuming only Bill #'s 5 and 6 are paid in full and when due:

February TVMC =

Feb portion of Bill #5 x [(# days from Feb 8 to Mar 19)/365] x (Avg Daily Prime Rate in January + 2.5%) +

Bill #6 x [(# days from Feb 15 to Mar 19)/365] x (Avg Daily Prime Rate in January + 2.5%)

February Actual Billing True-Up Adjustment =

Sum of Payments for February service received on or before Mar 19 - Actual Charges for February usage

- Note: 1) Time Value of Money Credit will not be reflected for any Weekly Billing which has not been received in same day funds, in full and on or before the Due Date.
2) The TVMC is calculated to (and wire transferred on) the standard monthly billing cycle due date which is 15 days from the date customer is notified of the charges for actual monthly usage.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR SCHOOLS

APPLICATION

To Large Light and Power Service Schedule 55 and 75 for schools which are part of the elementary and secondary school system.

MODIFICATIONS

The RATE (Monthly) and other provisions of the applicable schedule shall apply except that:

1. The first block under Demand Charge shall be changed to read, "\$11.00 per kW for the first 100 kW of Demand" or less as determined below.
2. Determination of the Billing Demand shall be replaced by the following:

"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 the minimum demand specified in customer's contract and in no case will the billing demand be less than 50 kW. For all Billing Demand between 51 kW and 100 kW the demand will be billed at the \$11.00 per kW rate. All Billing Demand above 100 kW shall be billed at the third block demand rate of \$9.30 per kW.

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

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR REVENUE CREDIT FROM NON-CONTRACT LARGE POWER SERVICE

APPLICATION

Applicable to electric service under all Company's Retail Rate Schedules except Non-Contract Large Power Service Schedule 78.

REVENUE CREDIT

There shall be deducted from each Customer's monthly bill, as computed under the applicable rate schedule, a Revenue Credit. Such Revenue Credit for each Customer, other than Large Power Service Schedule 54/74 Customers, shall be a monthly Revenue Credit Rate ($\text{\$/kWh}$) multiplied by the kWh billed in the current month. Such Revenue Credit for Large Power Service Schedule 54/74 Customers shall be a monthly Revenue Credit Rate ($\text{\$/kW}$) multiplied by the Firm Power Billing Demand (kW) billed.

DETERMINATION OF REVENUE CREDIT AMOUNT

The Revenue Credit Amount in month shall be one-sixth (1/6) of the total of all Non-Contract Large Power Service Demand Charges billed in the second preceding month.

REVENUE CREDIT RATES

- (a) Applicable to Non-Large Power Service (in $\text{\$/kWh}$)

The Revenue Credit Amount in month multiplied by .3606; divided by Company's total kilowatt-hour Sales of Electricity, excluding Non-Contract Large Power Service, non-firm service, Resale Service and Large Power Service sales, in the second preceding month.

- (b) Applicable to Large Power Service (in $\text{\$/kW}$)

The Revenue Credit Amount in month multiplied by .5207; divided by the sum of all Firm Power Billing Demand (kW) billed to Customers under Company's Large Power Service Schedules 54 and 74 in the current month.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR CITY OF DULUTH FRANCHISE FEE

APPLICATION

Applicable to bills for electric service within the corporate limits of the City of Duluth, except bills for service to the City of Duluth.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Duluth Franchise Fee assessment. The amount of the fee to be assessed shall be the assessment rate equal to that imposed on Minnesota Power by the City of Duluth, which is currently 3% of the total bill excluding sales taxes and is billed per electric service agreement. The fee is listed on the bill as "Duluth Franchise Fee (3%)" and is effective as January 1, 2017.

The total amount assessed to any Minnesota Power customer shall not exceed \$420,000 per year.

100% of the City of Duluth Franchise Fee assessment collected will be passed along to the City of Duluth.

Filing Date December 30, 2016 MPUC Docket No. E.G999/PR-16-7
Effective Date February 28, 2017 Order Date _____

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR PARALLEL GENERATION

APPLICATION

Applicable to cogenerator or small power producers rated at 100 kW or less. To any customer taking single or three phase service under one of the Company's standard electric rate schedules and who has entered into a contract with the Company for the sale of electricity as a cogenerator or small power producer (Seller) as defined under State or Federal Law.

RATE (Monthly)

The following charges and credits are applicable in addition to all charges for service being taken under Company's standard rate schedule:

- I. Sellers with facilities rated at less than 40 kW shall have the option of selling to Company under either the Net Energy Billing Rate, the Simultaneous Purchase and Sale Rate or the Time-of-Day Purchase Rate. The Rate selected shall be as specified in the Cogeneration and/or Small Power Production Facilities Agreement between Seller and Minnesota Power.

- A. Net Energy Billing Rate

Net Energy shall be the difference between all kWh's supplied by the Company to the Seller and those generated by the Seller and fed back into the Company's distribution system as surplus energy during the month. Seller shall be billed on Company's standard applicable rate schedule based on the amount of net energy "to Seller" or based on zero kWh's where the amount of Net Energy is "to Company." In addition, if the amount of Net Energy is "to Seller," Seller shall be subject to the following Service Charge; or, if the amount of Net Energy is "to Company," Seller shall be subject to the following Service Charge and Energy Credit:

Service Charge (Monthly)

\$1.31

Energy Credit

9.60¢ per kWh of Net Energy - Residential Customers

10.32¢ per kWh of Net Energy - General Service Customers

8.28¢ per kWh of Net Energy - Large Light & Power Customers

- B. Simultaneous Purchase and Sale Rate

The Seller shall be billed for all energy and capacity it consumes during each billing period according to the Company's applicable retail rate schedule. The Company shall purchase all energy and capacity which is made available to it by the Seller. The Seller

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Marcia A. Podratz
Director - Rates

RIDER FOR PARALLEL GENERATION

will be subject to the following Service Charge and Energy and Firm Power Capacity Credit:

Service Charge (Monthly)

\$1.31

Energy and Firm Power Capacity Credit

3.11¢ per kWh delivered to Company during period

C. Time-of-Day Purchase Rate

The Seller shall be billed for all energy and capacity it consumes during each billing period according to the Company's applicable retail rate schedule. The Company may require those facilities that choose to sell power on a time-of-day basis to also purchase power on a time-of-day basis. The Company shall purchase all energy and capacity which is made available to it by the Seller. The Seller will be subject to the following Service Charge and Energy and Firm Power Capacity Credit:

Service Charge (Monthly)

\$1.31

Energy and Firm Power Capacity Credit

4.10¢ per kWh delivered to Company during On-Peak periods.

2.25¢ per kWh delivered to Company during Off-Peak periods.

II. Facilities rated at 40 kW or greater and less than or equal to 100 kW shall be subject to the following Time-of-Day Purchase Rate.

A. Time-of-Day Purchase Rate

The Seller shall be billed for all energy and capacity it consumes during each billing period according to the Company's applicable retail rate schedule. The Company may require those facilities that choose to sell power on a time-of-day basis to also purchase power on a time-of-day basis. The Company shall purchase all energy and capacity which is made available to it by the Seller. The Seller will be subject to the following Service Charge and Energy and Firm Power Capacity Credit:

Service Charge (Monthly)

\$1.31

Energy and Firm Power Capacity Credit

4.10¢ per kWh delivered to Company during On-Peak periods.

2.25¢ per kWh delivered to Company during Off-Peak periods.

DEFINITION OF PEAK PERIODS

On-Peak periods shall include all hours between 7 a.m. and 10 p.m. Monday through Friday excluding holidays. Off-Peak periods shall include all hours not included in On-Peak periods.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR STANDBY SERVICE

APPLICATION

To any Customer taking service under one of Company's following standard rate schedules: Residential Service (Schedule 20/22), General Service (Schedule 25), Large Light and Power Service (Schedule 55, 75), Municipal Pumping Service (Schedule 87) and Large Power Service (Schedule 54, 74) and who has entered into the "State of Minnesota Interconnection Agreement for the Interconnection of Extended Parallel Distributed Generation Systems with Electric Utilities" with Company.

Service under this Rider shall be required for Customer who has a distributed generation system which normally serves all or a portion of Customer's electric load requirements and who desires use of Company's electric service for temporary back-up. Exceptions to this Application include: (i) For any Customer with distributed generation systems rated at 100 kW or less, standby service will be available to customers through their standard rate schedules; or (ii) any Customer, in lieu of service under this Rider, who provides physical assurance that standby service is not taken. A Customer requesting physical assurance shall agree to furnish and install an approved load limiting device which shall be set and sealed by Company to prevent Customer from utilizing standby service. The cost of the load limiting device shall be paid by Customer.

Customer shall execute an electric service agreement with Company for service under this Rider. The minimum term of service taken under this Rider shall be one (1) year or such longer period as may be required under the electric service agreement. Service under this Rider is subject to Company's Electric Service Regulations and any other rules as applicable. All provisions of the applicable standard rate schedule shall apply to service under this Rider except as noted below.

TYPE OF SERVICE

Service shall be taken at 60 hertz and at the voltage and phase relationship specified under Company's applicable standard rate schedule for service to Customer.

RATE (Monthly)

Firm standby service is available to any Customer who elects to reserve standby service to back-up all or a portion of the distributed generation system. Non-firm standby service is available to any Customer who does not reserve standby service under this Rider. The following charges are applicable in addition to all charges for service being taken under Company's standard rate schedule:

Filing Date <u> August 30, 2013 </u>	MPUC Docket No. <u> E015/M-13-770 </u>
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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR STANDBY SERVICE

Standby Reservation Fee (\$/kW):

For purposes of applying the Standby Reservation Fee, the Contracted Standby Demand shall be the quantity specified by Customer in the electric service agreement with Company as the maximum amount of standby service Company is obligated to supply. The Contracted Standby Demand shall be no greater than the nameplate capacity rating of the distributed generation system.

Customer shall pay a Standby Reservation Fee equal to the rate defined below times the Contracted Standby Demand.

Rate Schedule Voltage Level	Residential	General Service	Large Light & Power	Municipal Pumping	Large Power
Transmission	N/A	N/A	\$3.08	N/A	\$4.54
Primary Distribution	N/A	\$4.70	\$6.14	\$5.04	N/A
Secondary Distribution	\$4.27	\$6.93	\$9.74	\$7.25	N/A

There shall be no Standby Reservation Fee applied if Customer elects non-firm service.

Standby Usage Fee:

Demand (\$/kW)

Customer shall pay a Standby Demand Usage Fee equal to the rate defined below times the Standby Demand. For billing purposes, Standby Demand shall be determined separately from the billing demand determined under the standard rate schedule to which this Rider applies.

For applying the Standby Demand Usage Fee, the Standby Demand shall be determined during the 15-minute period of Customer's greatest Standby Demand Usage during the billing month based on the smaller of the following two amounts: (i) the nameplate capacity rating of the distributed generation system minus the actual demand supplied by the distributed generation system, less the Contracted Standby Demand, but not less than zero, or (ii) the amount of actual capacity supplied by Company less the Contracted Standby Demand, but not less than zero.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR STANDBY SERVICE

There shall be no Standby Demand Usage Fee applied if: (i) Contracted Standby Demand equals the nameplate capacity rating of the distributed generation system; or (ii) the actual demand supplied by the distributed generation system is greater than the difference between the nameplate capacity rating of the distributed generation system and the Contracted Standby Demand during each 15-minute period of the billing month.

Summer-Peak (for standby service during June, July and August)

Rate Schedule Voltage Level	Residential	General Service	Large Light & Power	Municipal Pumping	Large Power
Transmission	N/A	N/A	\$16.84	N/A	\$24.75
Primary Distribution	N/A	\$12.21	19.90	\$15.55	N/A
Secondary Distribution	\$6.47	\$14.44	23.50	\$17.76	N/A

Winter-Peak (for standby service during December, January and February)

Rate Schedule Voltage Level	Residential	General Service	Large Light & Power	Municipal Pumping	Large Power
Transmission	N/A	N/A	\$10.89	N/A	\$16.00
Primary Distribution	N/A	\$8.96	\$13.95	\$11.00	N/A
Secondary Distribution	\$5.52	\$11.20	\$17.55	\$13.22	N/A

Off-Peak (for standby service during March, April, May, September, October and November)

Rate Schedule Voltage Level	Residential	General Service	Large Light & Power	Municipal Pumping	Large Power
Transmission	N/A	N/A	\$4.94	N/A	\$7.25
Primary Distribution	N/A	\$5.71	\$8.00	\$6.46	N/A
Secondary Distribution	\$4.57	\$7.95	\$11.60	\$8.67	N/A

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Marcia A. Podratz
Director - Rates

RIDER FOR STANDBY SERVICE

Energy (¢/kWh)

Customer shall pay a Standby Energy Usage Fee equal to the rate below times the Standby Energy. For billing purposes, Standby Energy shall be determined separately from the billing energy determined under the standard rate schedule to which this Rider applies.

For applying the Standby Energy Usage Fee, the Standby Energy shall be determined as the summation over the billing month of the smaller of the following two amounts for each 15-minute period: (i) the nameplate capacity rating of the distributed generation system minus the actual demand supplied by the distributed generation system, but not less than zero or (ii) the amount of actual capacity supplied by Company.

Rate Schedule	Residential	General Service	Large Light & Power	Municipal Pumping	Large Power
	0.92	1.56	1.57	1.56	1.57

SERVICE CONDITIONS

1. All electricity delivered to Customer by Company shall be measured by one or more meters installed at a single point of common coupling or as determined by Company. Company's meter for standby service shall measure the flow of capacity and energy from Company to Customer only. Any flow of capacity and energy from Customer to Company shall be separately metered.
2. Customer shall operate the distributed generation system to avoid taking energy from Company other than under the standard rate schedule to which this Rider applies. Company reserves the right to require physical assurance in the event Customer does not operate its distributed generation system in a manner agreed to by Company and Customer.
3. Company shall not be obligated to supply standby service to back-up the distributed generation system at a level in excess of Contracted Standby Demand. This restriction in no way limits the electric load requirements for which Customer may require service from Company under the standard rate schedule to which this Rider is attached.
4. Service shall be provided under this Rider if Company has sufficient capacity available in existing production, transmission and distribution facilities to provide such service at the location where service is requested.

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Marcia A. Podratz
Director - Rates

RIDER FOR STANDBY SERVICE

5. Customer shall pay Company the installed cost of any additional required facilities which are not supported by this Rider.

6. Company may be reimbursed by Customer for costs which are incurred, or which have been incurred, in providing facilities which were utilized principally or exclusively in providing service for any portion of Customer's electric load requirements which are to be normally provided from the distributed generation system.

7. Company shall not be liable for any loss or damage, including consequential damages, caused by or resulting from any limitation in providing service under this Rider.

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Marcia A. Podratz
Director - Rates

RIDER FOR FOND DU LAC RESERVATION BUSINESS LICENSE FEE

APPLICATION

Applicable to billings for electric service provided within the Fond du Lac Reservation located in the southern portion of St. Louis County and the northern portion of Carlton County, Minnesota.

ADJUSTMENT

In accordance with the Corporate Code, Business License System and Employment Rights Law contained in the Fond du Lac Reservation Ordinance 5/84, businesses operating within the Reservation shall pay an assessment of 0.5 percent on revenues from sales within the Reservation. Therefore, there shall be added to each customer's monthly electric service bill a Fond du Lac Reservation Business License Fee assessment. The amount of the fee to be assessed shall be the applicable Assessment Rate multiplied by the Customer's bill for electric service. Compliance by Minnesota Power with the Business License System is governed by the terms of an agreement dated September 25, 1985, as amended by letter dated January 6, 1986, made with the Reservation Business Committee. Since the License Fee assessable by Minnesota Power applies retroactively to October 2, 1985, the initial Assessment Rate shall be 1.0 percent until such time as all retroactive amounts have been collected. Thereafter, the Assessment Rate shall be 0.5 percent.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR LARGE POWER INTERRUPTIBLE SERVICE

APPLICATION

Applicable to any customer taking service under Large Power Service Schedule 54 or 74, that qualifies for a specified amount of load that may be interrupted ("Certified Interruptible Load") by the Company at any time, subject to the Conditions below.

The total availability of service under this Rider is limited to 200 MW of "Allocated Interruptible Load." Allocated Interruptible Load shall mean the total amount of load that the Customer has been or is allocated under this Rider in the first and second 100 MW Interruptible Service offerings. Customers shall continue service under this Rider for the initial 100 MW of Interruptible Service approved in Docket No. E-015/M-93-153 at the levels of Interruptible Service allocated by the Company (i.e., Allocations originally made under this Rider shall not be reallocated.). Customers shall be permitted to take service under this Rider for the second 100 MW of Interruptible Service only if they have executed a contract with the Company by January 31, 1995, that satisfies the conditions of this Rider. Customers shall have until February 15, 1995, to nominate their desired level of the additional 100 MW of Interruptible Service. In the event that under the second offering, Customers request service under this Rider in excess of 100 MW, the Company shall apply an appropriate methodology to allocate these second 100 MW. Service under this Rider for the additional 100 MW of Interruptible Service shall be available May 1, 1995.

RATE

Demand Charge Credit:

For each month that Large Power Interruptible Service is being taken, the Customer shall receive a billing credit of \$5 per kW for all kW of Certified Interruptible Load. Such credit shall be applied to the demand charges billed under Schedule 54 or 74.

Energy Charges:

All energy taken under this Rider shall be billed:

- (a) at 100% of the Company's Incremental Energy Cost, which will include all fuel related costs, if such energy is produced by Company-owned facilities; or
- (b) if such energy is purchased from third parties, at the lesser of (i) 100% of the Company's Incremental Energy Cost including third-party transmission costs incurred by the Company plus \$3.00/MWh or (ii) 110% of the Company's Incremental Energy Cost, including third-party transmission costs incurred by the Company.

The Company's Incremental Energy Cost shall be determined each hour of the month during which energy is taken under this Rider and shall include fuel costs and variable operation and maintenance expenses for generating or purchasing such energy. Such cost will be the cost of energy immediately after assigning lower cost energy to all firm retail and firm wholesale customer requirements including all inter-system pool sales which involve capacity on a firm or participation basis.

Filing Date	<u> May 2, 2008 </u>	MPUC Docket No.	<u> E015/GR-08-415 </u>
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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR LARGE POWER INTERRUPTIBLE SERVICE

Optional Back-up Capacity/Energy Charge

Customer may voluntarily request to purchase from the Company optional back-up capacity and/or energy on a short-term (less than one year) basis ("Optional Back-up Capacity/Energy") for the purpose of reducing all or part of the Customer's risk of interruption and/or for the purpose of reducing volatility in the price paid by the Customer under this Rider. The price, conditions and terms for Optional Back-up Capacity/Energy shall be as negotiated by the Customer and the Company. Any Back-up Capacity/Energy arranged by the Company in advance for an Interruptible Customer shall be priced to recover, at a minimum, Company's incremental costs and shall be at a higher price than that price projected to be required for firm retail and firm wholesale customer requirements.

CONDITIONS

1. Unless Back-up Capacity/Energy is purchased by the Customer, the duration and frequency of interruptions shall be at the sole discretion of the Company. They will normally occur at such times when the Company expects to incur a system peak in excess of its Mid-Continent Area Power Pool (MAPP) (or successor organization) accredited generating capability and at such other times when, in the Company's opinion, the reliability of the Company or regional systems are endangered. The Company will not interrupt service under this Rider for purposes of making non-firm sales. At times when the Company would normally interrupt all or a portion of the Customer's Certified Interruptible Load and if the Company is able to serve such Load in lieu of interrupting, the Customer will be given the option to continue service without interruption under the terms of this Rider.
2. The Company will notify the Customer as to the amount of its Certified Interruptible Load that is to be curtailed. This notification will be stated as a portion of total Certified Interruptible Load of all the Customers receiving service under this Rider and will be the same percentage for all the Customers.
3. The Customer shall be provided, whenever possible, notice in advance (generally 1 day) of probable interruption and the estimated duration of the interruption. Upon receiving a control signal from the Company, the Customer must shed the amount of load specified in paragraph 2 above in 10 minutes or less, and for a duration as required by the Company, whenever the Company determines such interruption is necessary.
4. The Customer must provide, at its expense, a means of interrupting its Certified Interruptible Load upon receiving a command or signal from the Company. The Company reserves the right to inspect and approve the installation.
5. The Company shall not be liable for any loss or damage, including consequential damages, caused by or resulting from any interruption of service.
6. Customers receiving service under the initial 100 MW offering approved in Docket No. E-015/M-93-153 were required to have a contract demand for four (4) years after the effective date (November 1, 1993) on which these Customers commenced taking service under this Rider. Customers nominating to receive service under the second 100 MW service offering must have a contract demand for four (4) years after the

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RIDER FOR LARGE POWER INTERRUPTIBLE SERVICE

effective date (May 1, 1995) on which the Customer commences taking service under this Rider and, if necessary, shall execute an electric service agreement (or amendment thereof) with the Company to provide for such contract demand. The Service Requirements (contract demand plus Incremental Service Requirements) during this time shall reflect a "Reasonable Operating Level," but not less than 10,000 kW. A Reasonable Operating Level for a Customer shall mean not less than 50 percent of its average Measured Demand levels for the preceding four (4) year period adjusted for any extraordinary operating circumstances.

7. Upon allocation of a portion of the Interruptible Service offering, the Customer incurs obligations relating to the Allocated Interruptible Load. During the eleven (11) year period(s) immediately following the four (4) years after the effective date(s) in which the Customer commences taking service under this Rider, the Customer shall purchase from the Company, to the extent it has electric service requirements (other than those requirements served by the Customer's ownership share of on-site electric generating facilities), not less than the amount of the Customer's Allocated Interruptible Load. Contract demands during this period shall be considered as interruptible load upon certification with MAPP, up to a demand level equal to the Customer's Allocated Interruptible Load.

In the event that the Customer is permitted in the future to obtain electric service from a supplier other than the Company, the Company shall, in addition to retaining the right to serve the Allocated Interruptible Load, have the right of first refusal to provide service to the Customer (i.e., the Customer is obligated to purchase from the Company if the Company matches the total value to the Customer of the other supplier's bona-fide written offer) for an additional amount of its electric service requirements which shall be equal in MW to the Customer's Allocated Interruptible Load during this eleven (11) year period.

8. The Customer must agree to fully participate in the procedure for Certification of Interruptible Load, as specified in the MAPP Generation Reserve Sharing Pool Handbook (or successor organization certification procedures). The Company shall notify Customer following completion of certification procedures during each MAPP Pool Season of its Certified Interruptible Load for such Pool Season. Such amount must be in 1 MW increments.
9. All energy billed under this Rider shall be determined as follows:

In each hour, energy (up to 100%) is distributed first to the Customer's non-interruptible load and then to its Certified Interruptible Load.
10. Customers taking service under this Rider that fail to interrupt their Certified Interruptible Loads after being notified to do so by the Company shall be responsible for all costs incurred by the Company due to such failure.
11. That portion of the Customer's Allocated Interruptible Load that is not certified shall be served as Firm Service and subject to the Large Power Surcharge Provision.
12. The Customer may convert some or all of its Allocated Interruptible Load to Firm Service, and such conversion shall be irrevocable. Upon such conversion, the Customer shall not receive the Demand Charge Credit, and the Company shall obtain firm capacity or shall construct new capacity to meet the increased service

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RIDER FOR LARGE POWER INTERRUPTIBLE SERVICE

obligations and to maintain the Company's system reserve margin as it existed prior to Customer's conversion election. Such conversion shall, to the extent practicable, mitigate impacts on non-converting firm customers due to the conversion. The conversion may occur using one of the following procedures:

- (a) Customer may request conversion by providing advance written notification to the Company at least six months prior to the beginning of a MAPP pool season (May 1 or November 1). Company shall respond to the written request with any and all projected costs for the converted Firm Service within thirty days. If accepted by Customer within fifteen days of the price identification, such conversion shall take effect upon commencement of the next pool season. The projected costs that Customer shall pay shall include (i) any applicable Large Power Surcharge for (1) a five-year period following conversion, or (2) the remaining term of Customer's Interruptible Service obligation, whichever is shorter, and (ii) any additional capacity costs (capacity premium) incurred by the Company that are greater than the forfeited \$5 per kilowatt per month Demand Charge Credit for the remaining term of the Customer's interruptible service obligation.

- (b) Company may propose an alternative conversion opportunity that shall be available on equal terms to all Large Power Interruptible Service customers, and any one or more Customers may pursue such conversion opportunity. The conversion proposal shall be designed to recover (i) any applicable Large Power Surcharge for (1) a five-year period following conversion, or (2) the remaining term of Customer's Interruptible Service obligation, whichever is shorter, and (ii) the capacity premium (as described in paragraph 12(a) above) for the remaining term of each converting Customer's interruptible service obligation.

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Marcia A. Podratz
Director - Rates

RIDER FOR CONSERVATION PROGRAM ADJUSTMENT

APPLICATION

Applicable to bills for electric service under all Retail Rate Schedules except for Company's Competitive Rate Schedules 73 and 79. This Rider shall not be applicable to the Erie Mine Site Service Schedule, nor shall it be applicable to Economy or Standby service to retail customers.

Except as provided below in the CUSTOMER EXEMPTIONS AND RATE ADJUSTMENTS section, there shall be added to each non-CIP exempt customer's monthly bill a Conservation Program Adjustment (CPA) charge which shall be the applicable CPA factor multiplied by the customer's monthly kWh of energy usage. The applicable CPA factor per kWh shall be determined annually as described below.

DETERMINATION OF THE CONSERVATION PROGRAM ADJUSTMENT FACTOR

The Conservation Program Adjustment factor shall be the quotient of the Recoverable Tracker balance, divided by projected retail energy sales (exclusive of those energy sales from customers who have been granted an exemption from CIP costs (see CUSTOMER EXEMPTIONS AND RATE ADJUSTMENTS section)). The CPA factor will remain in effect until subsequent MPUC approval of an updated factor. The Recoverable Tracker balance shall be determined by adjusting the prior year-end Conservation Improvement Program (CIP) Tracker balance by:

- 1) Subtracting the unamortized beginning CIP Tracker account balance;
- 2) Adding financial incentives awarded by the MPUC not reflected in the prior year-end balance;
- 3) Adding actual and anticipated CIP program expenditures at their approved and/or budgeted level for the applicable time period; and
- 4) Subtracting actual and anticipated CIP cost recovery through base rates, determined by multiplying the CCRC (shown below) by the Company's budgeted retail sales in kWh to non-CIP exempt customers for the applicable time period; and
- 5) Subtracting actual and anticipated CIP cost recovery from the applicable CPA factor not accounted for in the prior year-end balance, as determined by multiplying the applicable CPA by the Company's budgeted retail sales in kWh to non-CIP exempt customers for the remaining applicable time period. The remaining applicable time period for the applicable CPA is dependent upon subsequent MPUC approval which, for the purposes of this calculation, Minnesota Power assumes to align with the end of the current fiscal year (June 30, 2017).

All costs appropriately charged to the CIP Tracker account shall be eligible for recovery through this adjustment and all revenues received from the application of the CPA factor shall be credited to the CIP Tracker account.

Filing Date April 3, 2017 MPUC Docket No. E-015/M-17-178
Effective Date July 1, 2017 Order Date June 22, 2017

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR CONSERVATION PROGRAM ADJUSTMENT

In order to normalize the effect of significant changes in the CPA factor, the Company may request approval of an upper limit or cap on the calculated CPA factor.

The CPA factor effective July 1, 2017 for all non-CIP exempt customers shall be .5052¢ per kWh

DETERMINATION OF CONSERVATION COST RECOVERY CHARGE (CCRC)

The CCRC is the amount included in base rates dedicated to the recovery of CIP costs as approved by the Minnesota Public Utilities Commission in the Company's last general rate case. The CCRC is approved and applied on a per kWh basis by dividing the test-year CIP expenses by the test-year sales volumes (net of CIP-exempt volumes). All revenues received from the CCRC shall be credited to the CIP Tracker Account.

The CCRC effective June 1, 2011 for all non-CIP exempt customers is 0.1466772¢ per kWh.

CUSTOMER EXEMPTIONS AND RATE ADJUSTMENTS

For customers granted an exemption from CIP costs by the Commissioner of the Minnesota Department of Commerce, pursuant to Minn. Stat. § 216B.241, the CPA factor shall not be applicable. No CCRC is included in base rates for Large Power customers. For Large Power customers who have not been granted an exemption, the CCRC of 0.1466772¢ per kWh shall apply to the total billing energy. In addition, non-Large Power customers who have been granted an exemption shall receive a billing credit of 0.1466772¢ per kWh to offset the CCRC that is included in base rates under the applicable rate schedule. For those customer accounts granted exemption by a decision of the Commissioner after the beginning of a calendar year, any CIP collections billed after January 1 of the year following the Commissioner's decision shall be credited back to customers.

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Marcia A. Podratz
Director - Rates

RIDER FOR NON-METERED SERVICE

APPLICATION

To General Service Schedules 25

DISCUSSION

Minnesota Power provides service for several types of operations that would normally be a part of the General Service class of customers. However, due to the unique nature of the customer's operations it is not always practical to meter the service points. Therefore, at Company's discretion, a customer may receive service under the General Service - Non-Demand Schedule without the metering requirements of that schedule and be billed for energy usage based on the table below. Additional end-use types and associated energy usages per unit may be added from time to time to address new situations. For purposes of applying the appropriate service charge, one service charge shall be applied for every point of delivery. A point of delivery shall be any location where a meter would otherwise be required for service under the applicable General Service Schedule. In the case of Christmas decorative lighting, the customer shall be billed with a single service charge and energy usage per the table below one time per Christmas season in December.

<u>Computer Code</u>	<u>Type of Non-Metered Customer</u>	<u>Units</u>	<u>Estimated Monthly Energy Usage/Unit</u>
CAMS	Security Cameras	kWh	43 kWh
CBLA	1-Way Cable Co. Wire	Volts	377 kWh
CBLB	2-Way Cable Co. Wire	Volts	490 kWh
CBLC	1-Way Cable Co. Wire	Volts	475 kWh
CBLD	2-Way Cable Co. Wire	Volts	617 kWh
CABL	Cable TV In-Line Signal Amplifiers	Amplifiers	377 kWh
FLS1	Crossing Flashers	kWh	10 kWh
FLS2	Crossing Flashers	kWh	50 kWh
FLS3	Crossing Flashers	kWh	60 kWh
HTR7	Strip Heaters	kWh	58 kWh

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Marcia A. Podratz
Director - Rates

RIDER FOR NON-METERED SERVICE

<u>Computer Code</u>	<u>Type of Non-Metered Customer</u>	<u>Units</u>	<u>Estimated Monthly Energy Usage/Unit</u>
PHON	Telephone Booths	Phone Booths	39 kWh
SIGN	Sign Lighting	Signs	25 kWh
SIRN	Civil Defense Sirens	Sirens	1 kWh
RRX	Railroad Crossings	Crossings	39 kWh
WMTR	Wireless Metering	kWh	15 kWh
XMS#	Christmas Lighting	Est. connected load in (kW)	422 kW

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Marcia A. Podratz
Director - Rates

RIDER FOR GENERAL SERVICE/LARGE LIGHT AND POWER INTERRUPTIBLE SERVICE

APPLICATION

Applicable to any customer taking service under General Service (Schedule 25) or Large Light and Power Service (Schedule 55 or 75) and which has at least 200 kW of load (Certified Interruptible Load and/or Non-Certified Interruptible Load) that qualifies for interruptible service. All provisions of the applicable standard Service Schedule shall apply to interruptible service under this Rider except as noted below.

RATE MODIFICATION

The Rates (Monthly) of the applicable General Service or Large Light and Power Service Schedules shall apply. Additionally, the customer shall receive a billing credit which will be 11 percent of Customer's billing before any other applicable Adjustments.

The Customer shall be given the option of having its interruptible load certified. At times when the Company would normally interrupt all or a portion of the Customer's Certified Interruptible Load, if the Company is able to secure energy to serve such Load in lieu of interrupting, the Customer will be given the option to continue service without interruption under the terms of this Rider. Energy taken by the customer under these conditions will be billed to the Customer at 110% of Company's average cost for supplying such energy or, where the capability does not exist to determine the amount of interruptible energy on an hourly basis, using equivalent cost and/or operating procedures as mutually agreed between the Company and Customer.

SERVICE CONDITIONS

1. The interruptible load shall be separately served and metered and shall at no time be connected to facilities serving customer's firm load.
2. The duration and frequency of interruptions shall be at the 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 in excess of its Mid-Continent Area Power Pool (MAPP) accredited generating capability,
 - (c) at such other times when in Company's opinion the reliability of the system is endangered, or
 - (d) when Company performs necessary testing for certification of interruptibility of customer's loads.

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Director - Rates

RIDER FOR GENERAL SERVICE/LARGE LIGHT AND POWER INTERRUPTIBLE SERVICE

Interruption for non-certified loads shall normally occur for capacity related needs before interruptions for any certified interruptible loads for Large Power, Large Light and Power, and General Service (those loads that meet the requirements specified in the MAPP Procedure for the Certification of Interruptible Demand).

3. Company shall not be liable for any loss or damage caused by or resulting from any interruption of service.

4. The Customer must provide, at its expense, a means of interrupting its Certified Interruptible Load and/or Non-Certified Interruptible Load upon receiving a command or signal from the Company. The Company reserves the right to inspect and approve the installation.

5. 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.

6. The Customer shall be provided, whenever possible, notice in advance of probable interruptions and the estimated duration of the interruption. Upon receiving a control signal from the Company, the Customer must shed its Certified Interruptible Load and/or Non-Certified 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.

7. The Customers who elect to have their interruptible load certified must agree to fully participate in the procedure for Certification of Interruptible Load, as specified in the MAPP Engineering Handbook.

8. Those Customers taking service under this Rider who fail to interrupt their Certified Interruptible Loads and/nor Non-Certified Interruptible Load after being notified to do so by the Company shall be penalized as follows:

(a) The first offense shall result in the Customer being billed for the entire month on the standard applicable Service Schedule (thereby not receiving the monthly Billing Credit under the Rider), and, additionally, paying a penalty of \$10/kW of Certified Interruptible Load and/nor Non-Certified Interruptible Load.

(b) The second offense shall result in the Customer being billed and penalized as stated in a) above, and also having its service terminated under this Rider.

9. The term of service under this Rider shall be no less than one year. However, the Company, at its discretion, reserves the right to provide the Customer with a one-year notice to discontinue providing service under this Rider.

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Marcia A. Podratz
Director - Rates

RIDER FOR LARGE POWER INCREMENTAL PRODUCTION SERVICE

APPLICATION

Applicable to any customer taking service under Large Power Service Schedule 54 or 74, whose Electric Service Agreement has a minimum term of at least four (4) years (exclusive of the additional commitments under the Rider for Large Power Interruptible Service) beyond the initiation of Incremental Production Service hereunder and which provides for the sale by the Company and the purchase by the customer of Incremental Production Service, subject to the conditions set forth in the customer's Electric Service Agreement and this Rider. Application of this Rider and establishment of an Incremental Production Service Threshold ("IPST") for those customers with self-generation and whose Electric Service Agreement allows for purchase of Economy Energy shall be at the sole discretion of the Company.

RATE MODIFICATIONS

Demand Charge

During any Billing Month in which the customer has Measured Demand in excess of the IPST but not greater than 110% of the IPST, the customer's Measured Demand above the IPST shall not be subject to any demand charges or ratchet provisions associated with Contract Demand and Incremental Service Requirements under the Large Power Service Schedule and the customer's Electric Service Agreement unless otherwise provided in this Rider or the customer's Electric Service Agreement.

Energy Charge

During any Billing Month in which the customer has Measured Demand in excess of the IPST but not greater than 110% of the IPST, the energy associated with the customer's Measured Demand above the IPST shall be subject to an energy charge equal to the Incremental Production Rate.

Curtable Incremental Production Rate

The Curtable Incremental Production Rate shall consist of an energy surcharge of \$0.01 per kWh plus the Company's hourly incremental energy costs during the time of the sale including third-party transmission costs incurred by the Company. Incremental energy costs are determined after assigning lower cost energy to all firm retail and firm wholesale customers including all inter-system pool sales which involve capacity on a firm or participation basis, and to all interruptible sales to Large Power, Large Light and Power, and General Service customers.

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Marcia A. Podratz
Director - Rates

RIDER FOR LARGE POWER INCREMENTAL PRODUCTION SERVICE

Non-Curtailable Incremental Production Rate

The Non-Curtailable Incremental Production Rate shall consist of an energy surcharge of \$0.03 per kWh plus the Company's hourly incremental energy costs during the time of the sale including third-party transmission costs incurred by the Company. Incremental energy costs are determined after assigning lower cost energy to all firm retail and firm wholesale customers including all inter-system pool sales which involve capacity on a firm or participation basis, and to all interruptible sales to Large Power, Large Light and Power, and General Service customers.

Excess Reactive Demand

Whenever a customer's metered demand exceeds the IPST, the Company shall not bill the customer for any excess reactive demand adjustments below the level specified in the customer's Electric Service Agreement. However, the Company may, at its sole discretion, bill the customer for any excess reactive demand adjustments above the specified level at the Excess Power Demand Charge, with excess reactive demand calculated as indicated in the Large Power Service Schedule.

SERVICE CONDITIONS

1. The customer shall be permitted to purchase Incremental Production Service from the Company, for service above the IPST established in the Electric Service Agreement, whenever the customer's Measured Demand during any Billing Month exceeds the IPST. Incremental Production Service shall be provided to the customer to increase production or throughput above historic and contractual Service Requirement levels and not as a replacement for such Service Requirement levels.
2. The customer's Measured Demand shall not exceed 110% of the IPST without the Company's prior written consent, which consent shall not be unreasonably withheld. In the event that the customer exceeds this level without Company consent, the Company may adjust the customer's Contract Demand upward by that amount for the duration of the customer's Electric Service Agreement.

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Director - Rates

RIDER FOR LARGE POWER INCREMENTAL PRODUCTION SERVICE

Additional Service Conditions for Curtailable Incremental Production Service Only

3. The customer shall be provided, whenever possible, information regarding the probable curtailment, the estimated duration of the curtailment, and any availability restrictions for Incremental Production Service one day in advance. Advance notification under this Rider shall be via telephone, facsimile or electronic communication as provided in the customer's Electric Service Agreement.
4. Upon notification from the Company to curtail service, the customer shall reduce its metered demand to the IPST in 10 minutes or less, and for a duration as required by the Company. The curtailment shall be for the entire amount of Incremental Production Service unless otherwise notified by the Company. Ten minute notification under this Rider shall be via automatic control unless otherwise provided in the customer's Electric Service Agreement.
5. The duration and frequency of curtailments shall be at the sole discretion of the Company. Curtailments shall normally occur for reasonable testing requirements, at such times when the Company expects to incur a system peak in excess of its Mid-Continent Area Power Pool ("MAPP") (or successor organization) accredited generating capability (less the required planning reserve) and at such other times when, in the Company's opinion, the reliability of the Company or MAPP systems are endangered. Curtailments shall normally not occur due to high energy costs. Curtailments shall normally occur for capacity related needs before interruptions for any certified interruptible loads for Large Power, Large Light and Power, and General Service customers (those loads that meet the requirements as specified in the MAPP (or successor organization) procedure for the certification of interruptible demand). Unless agreed to in advance by the customer, the Company shall not make additional non-firm off-system energy sales that would, if made, require curtailment of Incremental Production Service.
6. The customer shall pay any and all penalties or other costs incurred by the Company if the customer fails to reduce its metered demand to the IPST or the requested reduction level (but not less than the IPST) within 10 minutes of receiving such notice from the Company. The penalties or other costs shall be divided pro rata between those customers that did not curtail service as requested by the Company.
7. The Company shall reserve the right to discontinue service under this Rider to customers who fail to curtail service as requested by the Company.
8. The Company shall not be liable for any loss or damage, including consequential damages, caused by or resulting from any curtailment of service.

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Director - Rates

RIDER FOR RELEASED ENERGY

APPLICATION

Applicable to any customer taking service under Large Power Service Schedule 54 or 74. Application of this Rider and establishment of Released Energy Credit ("REC") shall be at the sole discretion of Company and participation by Customer is voluntary.

RATE MODIFICATIONS

Energy Credit for Off-System Sales

Customer shall receive a credit during any Billing Month in which Customer and Company have cooperated to make a short-term off-system energy sale. The Released Energy Credit ("REC") shall be a per Megawatt-hour ("MWh") credit for each hour subject to an off-system energy sale. The REC is dependent on whether the off-system sale is of Firm or Interruptible Energy.

Sale of Firm Energy

If the energy made available for sale is associated with Customer's Firm (non-interruptible) Large Power Service requirement, the REC shall equal a negotiated percentage of the sale margin for each hour that such sale opportunity occurs. For purposes of determining the margin for each Megawatt-hour sold, the following formula shall apply:

(Released energy sale price) *less* (Company's highest Firm Energy cost)
less (any and all transmission costs across third-party systems, including energy losses) *less* (any other cost to effectuate the sale)

Sale of Interruptible Energy

If the energy made available for sale is associated with Customer's Large Power Interruptible Service requirement, the REC shall be a negotiated percentage of the sale margin for each hour that such sale opportunity occurs. For purposes of determining the margin for each Megawatt-hour sold, the following formula shall apply:

(Released energy sale price) *less* (Company's highest Interruptible Energy cost) *less* (any and all transmission costs across third-party systems, including energy losses) *less* (any other cost to effectuate the sale)

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Director - Rates

RIDER FOR RELEASED ENERGY

Energy Credit for Avoided Energy Purchases

Company may request, and Customer may voluntarily reduce, Customer's energy requirement during times when Company is purchasing energy to meet its Firm Energy requirement, thereby enabling Company and its customers to avoid higher-cost energy purchases. Company shall provide Customer a Released Energy Credit ("REC") for the reduced energy usage. The REC shall equal up to Ninety Percent (90%) of the avoided energy purchase cost for each hour that such an avoided purchase occurs. The REC shall be allowed as a recoverable cost for Fuel and Purchased Energy Adjustment Clause purposes.

CONDITIONS

1. Customer may not purchase Large Power Incremental Production Service ("IPS") as established under the Rider for Large Power Incremental Production Service while participating in Released Energy Credit opportunities.
2. If Customer makes energy available for sale and the identified released energy sale or avoided energy purchase is not actually completed (for example, due to transmission constraints), the REC shall be zero. In the event that a scheduled released energy sale or avoided energy purchase is not completed or the terms and conditions change, Company shall notify Customer of such change as soon as possible.
3. Customers who wish to participate in Released Energy Credit opportunities must provide Company accurate advance weekly load forecasts, which will serve as the basis for determining energy made available for a released energy sale or avoided energy purchase. Company shall establish and administer procedures to ensure actual and verifiable Customer load reductions occur when energy is released for sale or an avoided energy purchase is completed.
4. When Released Energy Credit opportunities are anticipated, Company shall provide advance notice, if possible, of the approximate margins or available energy purchase costs and hours of sale or purchase opportunity available to Customers who have indicated interest. Opportunities for voluntary load reductions shall be posted simultaneously for all eligible customers on the two-way communications network system or other communication method. When possible, notice shall also be made via phone calls to individuals designated by Customer. If two or more notified customers make capacity available for sale for the same time period, Company will prorate the Released Energy Credit among those customers. Released Energy Credits shall be

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RIDER FOR RELEASED ENERGY

determined for each Customer according to the amount of capacity made available for sale by each in proportion to the total amount of capacity made available by all Customers for a given time period.

5. In the event that additional released energy sales or avoided energy purchase opportunities arise during a day, Company shall provide Customers with as much advance notice as possible (via the two-way communications system and phone calls) to enable their participation. Credits associated with such opportunities shall be allocated to Customers on a first-come, first-served basis.
6. Customer may notify Company when Customer desires to reduce energy requirements for released energy sales or avoided energy purchase opportunities. Customer may, in lieu of daily elections, have a "standing agreement" with Company regarding the conditions for Released Energy Credit opportunities, allowable duration, required margins, margin sharing, etc. These agreements, along with daily elections, may be made on a customer by customer basis and shall be considered by Company traders without notice to other customers.
7. Energy shall be made available for sale in increments of 5 MW with a 10 MW minimum, and shall be associated with actual reduced power requirements below Customer's previous scheduled level.

PENALTY FOR INSUFFICIENT LOAD CONTROL

In the event that Company has entered into a sale or purchase agreement for energy made available by a Customer, and Customer subsequently fails to maintain sufficient load control during the time(s) of the released energy sale or avoided energy purchase, Customer shall receive no credit for the time that load exceeded the specified level and shall be responsible for any and all costs incurred by Company due to such failure to control load.

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RIDER FOR VOLUNTARY ENERGY BUYBACK

APPLICATION

Applicable to any Customer eligible for service under General Service Schedule 25; Large Light and Power Service Schedule 55 or 75 (and including all applicable Riders thereto); or Competitive Rate Schedules 73 or 79, and customers receiving service under contracts authorized by Minn. Stat. §216B.162 (the competitive and discretionary rate statute). Customer must be able to provide a minimum of 200 kW of curtailable demand for energy buyback transactions. Energy buyback transactions facilitate short-term off-system energy sales or assist in avoiding higher-cost energy purchases to meet Company's firm energy requirements. Application of this Rider and establishment of Buyback Energy Credit ("BEC") shall be at the sole discretion of Company. Participation by Customer is voluntary. All provisions of the applicable standard Service Schedule shall apply to service under this Rider except as noted below.

RATE MODIFICATION

Customer shall receive a BEC for any calendar month in which Customer and Company have agreed to participate in energy buyback transactions. The BEC shall occur as an adjustment on Customer's bill and shall consist of a payment per kWh for each hour subject to an energy buyback transaction.

If the energy buyback transaction is entered into for purposes of facilitating an off-system sale, the BEC per kWh shall be a negotiated amount based on the off-system energy sale price, less: (i) Company's highest firm energy cost, (ii) any and all transmission costs across third-party systems, including energy losses, and (iii) any other cost to effectuate the sale.

If the energy buyback transaction is entered into for purposes of avoiding higher-cost energy purchases for Company's firm system requirements, the BEC payable per kWh of Customer's reduced energy usage shall equal up to ninety percent (90%) of the avoided energy purchase cost for each hour that such an avoided energy purchase occurs. The BEC shall be allowed as a recoverable cost under Company's Rider for Fuel and Purchased Energy Adjustment.

CONDITIONS

1. Company and Customer shall enter into an Energy Buyback Agreement specifying the rates, and the terms and conditions, for participation in energy buyback transactions, including, but not limited to: (i) BEC calculation; (ii) period of possible energy buyback; (iii) minimum/maximum duration of each energy buyback; and (iv) commencement/termination notice requirements.
2. Company and Customer shall agree to a typical peak kW level of operation ("Reference Operating Level"). Customer shall determine an acceptable reduced operating level for each energy buyback transaction time period ("Reduced Operating Level"). The amount of energy associated with each energy buyback

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RIDER FOR VOLUNTARY ENERGY BUYBACK

transaction shall be equal to the difference between Customer's Reference Operating Level and the Reduced Operating Level multiplied by the hours of curtailment at a load factor mutually agreed to by Company and Customer.

3. Company shall notify Customer of energy buyback opportunities via telephone, facsimile, electronic communication or such other method as mutually agreed between Customer and Company. Communication equipment will be installed at Customer's expense. Alternatively, Customer may notify Company when Customer desires to reduce energy requirements for energy buyback transactions.
4. Under the terms of the Energy Buyback Agreement, at Company's request, Customer shall curtail down to the Reduced Operating Level for a duration as required by Company, such duration not to exceed the maximum number of curtailment hours agreed to by Company and Customer. Company shall establish and administer procedures to ensure actual and verifiable Customer load reductions occur when energy is made available for sale or an avoided energy purchase is completed.
5. Customer shall pay Company the installed cost of any additional facilities (e.g., metering, protective devices for interconnection with Company's system, etc.) required to participate in energy buyback transactions under this Rider.
6. If Customer makes energy available for sale and the identified off-system energy sale or avoided energy purchase is not actually completed (for example, due to transmission constraints), the BEC shall be zero. In the event that a scheduled off-system energy sale or avoided energy purchase is not completed or the terms and conditions change, Company shall notify Customer of such change as soon as possible.
7. In the event that Company has entered into a sale or purchase agreement for energy made available by Customer, and Customer subsequently fails to maintain sufficient load control during the time(s) of the buyback energy sale or avoided energy purchase, (i) Customer shall receive no credit for that calendar month in which the curtailment failure occurred, and (ii) Customer shall be responsible for any and all costs incurred by Company due to such failure, including but not limited to: (a) penalties imposed upon Company by the Mid-Continent Area Power Pool (MAPP) or any other entity, and/or (b) financial damages resulting from non-completed or replacement wholesale sales or purchases.
8. Company shall not be liable for any loss or damage caused by or resulting from any curtailment of service at Customer's facility undertaken in response to BEC.

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Director - Rates

RIDER FOR RESIDENTIAL/GENERAL SERVICE RENEWABLE ENERGY

APPLICATION

Application to any customer taking service under Residential Service (Schedule 20, or 22) or General Service (Schedule 25). All provisions of the applicable standard Service Schedule shall apply to renewable energy service under this Rider except as noted below. The renewable energy service provided under this schedule is subject to the availability of renewable energy designated to it, as determined by the Company, and is made available on a first-come, first-serve basis. "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.

RATE MODIFICATIONS

The Rates (Monthly) of the applicable Residential Service or General Service shall apply. Additionally, the Customer shall pay a monthly renewable energy surcharge for each 100 kWh block of renewable energy nominated.

Wind Energy Surcharge

\$2.50 per 100 kWh block. This charge per kWhs is in addition to the applicable rate schedule currently serving the customer. All charges under existing tariffs remain in effect.

SERVICE CONDITIONS

1. The Customer may nominate up to their average monthly kWh use based on the past 12 months, or 20 blocks, whichever is less.
2. The Customer shall take service under this Rider for no less than one year. Service shall continue thereafter until and unless the Customer notifies the Company that service under the Rider is to be terminated.

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GENERAL SERVICE/LARGE LIGHT AND POWER AREA DEVELOPMENT RIDER

TERRITORY

The General Service/Large Light and Power Area Development Rate (GS/LLP ADR) is available to eligible customers located in Area Development Zones designated by an authority or municipality (as defined in Minnesota Statutes Section 216B.161, Subd. 1) for development or redevelopment under the conditions set forth in the Statute.

A maximum of five (5) total Area Development Zones may exist at any time in contiguous or noncontiguous areas where other development incentives are offered by the authority or municipality in which the GS/LLP ADR is available.

APPLICATION

The GS/LLP ADR is available to new or expanding manufacturing or wholesale trade customers located in designated Area Development Zones. The customer must have total power requirements of at least 1,000 kW and less than 10,000 kW and the Company shall execute an Electric Service Agreement, having a minimum term of five (5) years with a minimum cancellation provision of one (1) year.

Service hereunder 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 one standard low voltage of 120/208 or 120/240 through and inclusive of 4160 volts; except that within the Low Voltage Network Area service shall be three phase, four wire, 60 hertz, 277/480 volts. Service may also be taken at a higher voltage subject to billing in conjunction with the High Voltage Service Adjustment.

RATE

All provisions of the Large Light and Power Service Schedule shall apply except as modified by the following.

Demand Charge:

The Demand Charge shall be billed at a percentage of the General Service or Large Light and Power Demand Charge for all kW of Billing Demand.

This percentage shall be as follows:

	<u>Percentage of Demand Charge</u>
Years 1-3	80%
Year 4	90%
Year 5 and beyond	100%

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Director - Rates

GENERAL SERVICE/LARGE LIGHT AND POWER AREA DEVELOPMENT RIDER

Energy Charges:

All energy usage shall be billed at the standard General Service or Large Light and Power Energy Charge.

SERVICE CONDITIONS

1. 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 required facilities which are not supported by this rate.
2. For service taken on this Rider, the Company will conduct an energy audit and inform the customer of the conservation programs available from the Company.

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Director - Rates

LARGE POWER AREA DEVELOPMENT RIDER

TERRITORY

The Large Power Area Development Rate (LPADR) is available to eligible customers located in Area Development Zones designated by an authority or municipality (as defined in Minnesota Statutes Section 216B.161, Subd. 1) for development or redevelopment under the conditions set forth in the Statute.

A maximum of five (5) total Area Development Zones may exist at any time in contiguous or noncontiguous areas where other development incentives are offered by the authority or municipality in which the LPADR is available.

APPLICATION

The LPADR is available to new or expanding manufacturing or wholesale trade customers located in designated Area Development Zones. The customer must have 10,000 kW or more total load and the Company shall execute an Electric Service Agreement, having a maximum term of ten (10) years with a minimum cancellation provision of four (4) years.

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

All provisions of the Large Power Service Schedule shall apply except as modified by the following.

Demand Charge:

The first 10,000 kW of firm service shall be billed at a percentage of the Large Power Demand Charge for the first 10,000 kW or less of Firm Power Billing Demand. This percentage shall be as follows:

	<u>Percentage of LP Demand Charge</u>
Years 1-5	90%
Years 6-7	95%
Years 8-10	100%

All additional kW of firm service shall be billed at the Large Power Excess Power Demand Charge.

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LARGE POWER AREA DEVELOPMENT RIDER

Energy Charges:

All Firm Energy and Excess Energy usage shall be billed at the Large Power Firm Energy Charge.

SERVICE CONDITIONS

1. 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 required facilities which are not supported by this rate.
2. For service taken on this Rider, the Company will conduct an energy audit and inform the customer of the conservation programs available from the Company.

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Director - Rates

RIDER FOR CITY OF LONG PRAIRIE FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Long Prairie, except bills for electric service to property owned by the City of Long Prairie.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Long Prairie Franchise Fee assessment in the amount of:

\$1.00 per month for each residential electric service meter; and
\$5.00 per month for each commercial, industrial or other electric service meter.

Dual fuel meters shall constitute one meter for purposes of this franchise fee assessment.

100% of the City of Long Prairie Franchise Fee assessment collected will be passed along to the City of Long Prairie.

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Marcia A. Podratz
Director - Rates

RIDER FOR CITY OF LITTLE FALLS FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Little Falls, except bills for electric service to property owned by the City of Little Falls.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Little Falls Franchise Fee assessment in the amount of:

\$1.00 per month for each residential electric service meter; and
\$5.00 per month for each commercial, industrial or other electric service meter.

Dual fuel meters shall constitute one meter for purposes of this franchise fee assessment.

100% of the City of Little Falls Franchise Fee assessment collected will be passed along to the City of Little Falls.

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RIDER FOR CITY OF HERMANTOWN FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Hermantown, except bills for electric service to property owned by the City of Hermantown and property owned or leased by Company.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Hermantown Franchise Fee assessment in the amount of:

\$2.00 per month for each residential electric service meter; and
\$2.00 per month for each commercial, industrial or other electric service meter.

Dual fuel meters shall constitute one meter for purposes of this franchise fee assessment.

100% of the City of Hermantown Franchise Fee assessment collected will be passed along to the City of Hermantown.

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RIDER FOR CITY OF PARK RAPIDS FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Park Rapids, except bills for electric service to property owned by the City of Park Rapids.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Park Rapids Franchise Fee assessment in the amount of:

\$3.00 per month for each residential electric service meter; and
\$5.00 per month for each commercial, industrial or other electric service meter.

Dual fuels meters shall constitute one meter for purposes of this franchise fee assessment.

100% of the City of Park Rapids Franchise Fee assessment collected will be passed along to the City of Park Rapids.

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RIDER FOR CITY OF AURORA FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Aurora, except bills for electric service to property owned by the City of Aurora.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Aurora Franchise Fee assessment in the amount of:

\$2.00 per month for each residential electric service meter; and
\$2.00 per month for each commercial, industrial or other electric service meter.

Dual fuel meters shall constitute one meter for purposes of this franchise fee assessment.

100% of the City of Aurora Franchise Fee assessment collected will be passed along to the City of Aurora.

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Director - Rates

RIDER FOR DISTRIBUTED GENERATION SERVICE

APPLICATION

To any Customer taking service under one of Company's following standard rate schedules: Residential Service (Schedule 20), Residential Dual Fuel Interruptible (Schedule 21), Commercial/Industrial Dual Fuel Interruptible (Schedule 26), General Service (Schedule 25), Large Light and Power Service (Schedule 55, 75), Municipal Pumping Service (Schedule 87) and Large Power Service (Schedule 54, 74) and who has entered into the "State of Minnesota Interconnection Agreement for the Interconnection of Extended Parallel Distributed Generation Systems with Electric Utilities" with Company for the interconnection and operation of an on-site extended parallel distributed generation system. The distributed generation system must be:

- a. an operable, permanently installed or mobile generation facility serving the customer receiving retail electric service at the same site; and
- b. fueled by natural gas or a renewable fuel, or another similarly clean fuel or combination of fuels of no more than 10 MW of interconnected capacity at a point of common coupling to Company's distribution system. The interconnection and operation of distributed generation systems at each point of common coupling shall be considered as a separate application of the Rider.

Service under this Rider shall be required for any Customer who meets the Application criteria in the previous paragraph, subject to the following exceptions: (i) any Customer who takes service, as applicable, under Company's Rider for Parallel Generation as established under Minnesota Rules Chapter 7835 – Cogeneration and Small Power Production; or (ii) any Customer, in lieu of service under this Rider, who pursues reasonable transactions outside this Rider as agreed to by Company and Customer.

Customer shall execute an electric service agreement and a power purchase agreement with Company for service under this Rider. The minimum term of service taken under this Rider shall be one (1) year or such longer period as may be required under the electric service agreement. Service under this Rider is subject to Company's Electric Service Regulations and any other rules as applicable. All provisions of the applicable standard rate schedule shall apply to service under this Rider except as noted below.

TYPE OF SERVICE

Output of the distributed generation system shall be provided at 60 hertz and at the voltage and phase relationship specified under Company's applicable standard rate schedule for service to Customer or as agreed to by Company and Customer.

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Director - Rates

RIDER FOR DISTRIBUTED GENERATION SERVICE

RATE (Monthly)

The following charges and credits are applicable in addition to all charges for service being taken under Company's standard rate schedule:

Service Charge: \$15.83

Capacity/Energy Credits:

Customer may sell all the energy produced by the distributed generation system to Company, use all the distributed generation system energy to meet its own electric load requirements or use a portion of the energy from the distributed generation system and sell the remaining to Company.

Company shall purchase all capacity and energy made available by Customer from the distributed generation system. Such capacity and energy shall be purchased by Company under the rates, terms and conditions for such purchases as established by Company in a power purchase agreement with Customer.

Capacity Credits shall only be provided on that capacity available to Company which meets the accreditation requirements of the Mid-Continent Area Power Pool or successor organization.

Capacity and Energy Credits shall be based on Company's calculation of avoided capacity and energy costs. The Capacity Credits in effect at the time Customer enters into a power purchase agreement with Company shall remain in effect for the length of the agreement. Energy Credits for use under the power purchase agreement shall vary by month and time period (on-peak and off-peak) and shall be updated annually for the upcoming calendar year. Upon written request by Customer and after Customer signs a confidentiality agreement, Company shall provide Customer the current schedule of Capacity and Energy Credits.

Delivery Charge (\$/kw):

Company may require any Customer with a distributed generation system of 1 MW or greater nameplate capacity rating to pay a Delivery Charge for all capacity and energy made available by Customer from the distributed generation system. Such Delivery Charge shall compensate Company for any additional distribution, transmission and ancillary services not included under this Rider provided by Company to Customer through Company's participation in the Midwest Independent Transmission System Operator or successor organization. For applying the Delivery Charge, the capacity shall be determined during the 15-minute period of Customer's greatest capacity delivered to Company during the billing month.

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RIDER FOR DISTRIBUTED GENERATION SERVICE

Distribution Credits:

If the installation of the distributed generation system results in Company delaying or avoiding distribution investment, Company shall provide Distribution Credits to Customer that reflect the avoided distribution cost.

Company shall provide, upon Customer's written request, a list of substation areas or feeders that could be likely candidates for Distribution Credits as determined through Company's normal distribution planning process. Upon receiving an application from Customer for the interconnection and operation of a distributed generation system, Company shall perform an initial screening study to determine if the project has the potential to receive Distribution Credits. Customer shall be responsible for the cost of such screening study. If Company's initial study shows that there exists potential for Distribution Credits, Company shall, at its own expense, pursue further study to determine the Distribution Credits, as part of its annual distribution capacity study.

Line Loss Credits:

If the installation of the distributed generation system results in Company avoiding additional line losses, Company shall provide Line Loss Credits to Customer that reflect the additional line loss savings.

Company shall perform, upon Customer's written request, a specific line loss study to determine if the project has the potential to receive Line Loss Credits. Customer shall be responsible for the cost of such line loss study.

Renewable Credits:

If Company's purchase of capacity and energy from the distributed generation system results in Company meeting a requirement to obtain renewable capacity and energy, Company shall provide Renewable Credits to Customer that equal the additional avoided cost of the renewable addition or purchase. The purchase price of such Renewable Credits shall be net of payment for capacity and energy identified above.

In the event that Customer producing the power receives renewable credits, (that is, the Customer is paid by the Company the avoided cost of renewable energy purchases), then the transaction represented by the power purchase agreement will constitute a transfer from the Customer to the Company of the property rights, for those renewable attributes specific to the renewable energy generated by the Customer and for which the Company paid renewable credits.

Customer may receive either renewable credits or tradable emission credits but not both.

Tradable Emission Credits:

Filing Date	<u> November 2, 2009 </u>	MPUC Docket No.	<u> E015/GR-09-1151 </u>
Effective Date	<u> June 1, 2011 </u>	Order Date	<u> November 2, 2010 </u>

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR DISTRIBUTED GENERATION SERVICE

If Company's purchase of capacity and energy from the distributed generation system results in Company receiving an economic value associated with tradable emissions, Company shall provide Tradable Emission Credits to Customer that equal the credit revenues associated with the distributed generation system of such Tradable Emission Credits received by Company. Customer may receive either renewable credits or tradable emission credits but not both.

In the event that Customer producing the power receives tradable emission credits, then the transaction represented by the power purchase agreement will constitute a transfer from the Customer to Company of the property rights, if any, for those tradable emission credits received by Customer and for which Company paid tradable emission credits.

SERVICE CONDITIONS

1. All electricity delivered to Company by Customer shall be measured by one or more meters installed at a single point of common coupling or as determined by Company. Company's meter for distributed generation service shall measure the flow of capacity and energy from Customer to Company only. Any flow of capacity and energy from Company to Customer shall be separately metered.
2. Service shall be provided under this Rider if Company has sufficient capacity available in existing transmission and distribution facilities to provide such service at the location where service is requested.
3. Customer shall pay Company the installed cost of any additional required facilities which are not supported by this Rider.
4. Company shall not be liable for any loss or damage, including consequential damages, caused by or resulting from any limitation in providing service under this Rider.

PROCESS AND TECHNICAL DOCUMENTS AVAILABILITY

Company distributed generation system process and technical documents are available at www.mnpower.com or by contacting Company at 218-722-2625 or 30 West Superior Street, Duluth, MN 55802.

Filing Date November 2, 2009 MPUC Docket No. E015/GR-09-1151
Effective Date June 1, 2011 Order Date November 2, 2010

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR ARROWHEAD REGIONAL EMISSION ABATEMENT (AREA)

Applicable to electric service under all Company's Retail Rate Schedules except Competitive Rate Schedules 73 and 79. In addition, this Rider is applicable to service under Company's Rider for Large Power Interruptible Service and Rider for Large Power Incremental Production Service.

There shall be added to the monthly bill an amount per kilowatt-hour determined as the Monthly AREA Revenue Requirement divided by the Kilowatt-Hour Sales.

The Monthly AREA Revenue Requirement shall be based on the next projected 12 month AREA revenue requirement divided by 12.

The Kilowatt-Hour Sales shall be Company's total kilowatt-hour Sales of Electricity, excluding inter-system sales, where inter-system sales does not include service under Company's Rider for Large Power Interruptible Service and Rider for Large Power Incremental Production Service; all for the average of the first two of the preceding three months.

Filing Date November 2, 2009 MPUC Docket No. E015/GR-09-1151
Effective Date June 1, 2011 Order Date November 2, 2010

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR RENEWABLE RESOURCES

Applicable to electric service under all Company's Retail Rate Schedules except Competitive Rate Schedules – Rate Codes 73 and 79. In addition, this Rider is applicable to service under Company's Rider for Large Power Interruptible Service and Rider for Large Power Incremental Production Service.

The following charges are applicable in addition to all charges for service being taken under Company's standard rate schedules:

Large Power Customers	\$4.61 per kW-month for all Billing Demand kW
	and
	0.450¢ per kWh for all kWh
All other applicable Retail Rate Customers	0.598¢ per kWh for all kWh

Filing Date November 2, 2016 MPUC Docket No. E015/M-16-776
Effective Date January 1, 2017 Order Date December 21, 2016

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR TRANSMISSION COST RECOVERY

Applicable to electric service under all Company's Retail Rate Schedules except Competitive Rate Schedules 73 and 79. In addition, this Rider is applicable to service under Company's Rider for Large Power Interruptible Service and Rider for Large Power Incremental Production Service.

The following charges are applicable in addition to all charges for service being taken under Company's standard rate schedules:

Large Power Customers	\$1.23 per kW-month for all Billing Demand kW
	and
	0.117¢ per kWh for all kWh
All other applicable Retail Rate Customers	0.341¢ per kWh for all kWh

Filing Date May 22, 2015 MPUC Docket No. E015/M-15-472
Effective Date March 1, 2016 Order Date February 3, 2016

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR CITY OF STAPLES FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Staples.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Staples Franchise Fee assessment. The amount of the fee to be assessed shall be the assessment rate equal to that imposed on Minnesota Power by the City of Staples, which is currently 5% of the total bill excluding sales taxes. The fee is listed on the bill as "Staples Franchise Fee (5%)" and is effective as of March 11, 2010.

100% of the City of Staples Franchise Fee assessment collected will be passed along to the City of Staples.

Filing Date June 7, 2010 MPUC Docket No. E.G999/CI-09-970
Effective Date March 23, 2011 Order Date March 23, 2011

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR CITY OF NASHWAUK FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Nashwauk.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Nashwauk Franchise Fee assessment. The amount of the fee to be assessed shall be the assessment rate equal to that imposed on Minnesota Power by the City of Nashwauk, which is currently 1.5% of the total bill excluding sales taxes. The fee is listed on the bill as "Nashwauk Franchise Fee (1.5%)" and is effective as of February 10, 2011.

100% of the City of Nashwauk Franchise Fee assessment collected will be passed along to the City of Nashwauk.

Filing Date June 7, 2010 MPUC Docket No. E,G999/CI-09-970
Effective Date March 23, 2011 Order Date March 23, 2011

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR FOUNDRY, FORGING AND MELTING CUSTOMERS

APPLICATION

Applicable to any customer in the Foundry, Forging, and Melting Industry, as determined by Company, taking service under Large Light and Power Service (Schedule 55 or 75).

Customers taking service under this Rider may not also take service under the Rider for General Service/Large Light and Power Interruptible Service.

The term of service under this Rider shall be no less than one year. Customers must provide 30 days advance notice to Company prior to taking service under this Rider or discontinuing service under this Rider after at least one year of service.

This Rider shall apply 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.

RATE MODIFICATION

Demand Charge Credit: For each month that service is taken under this Rider, the Customer shall receive a billing credit of \$2.50 per kW of Billing Demand.

Price Recall Energy: 200 Hours of Price Recall Energy per calendar year will be billed at Company's sole discretion subject to the following conditions.

- o Minimum of three hours duration per price recall period
- o Maximum of two price recall periods per day
- o Minnesota Power will provide day-ahead email notice by 4pm on the day prior to the price recall period(s). The notice will indicate the start and stop times for the price recall period(s) and *estimated* prices during these price recall period(s).
- o Customer has the option to curtail load or to continue normal operations during the price recall period.
- o Price Recall energy usage will be billed at 110% of the Company's hourly incremental energy costs during the time of the price recall period. Incremental energy costs are determined after assigning lower cost energy to all firm retail and firm wholesale customers including all inter-system pool sales which involve capacity on a firm or participation basis.

Filing Date November 2, 2009 MPUC Docket No. E015/GR-09-1151
Effective Date June 1, 2011 Order Date November 2, 2010

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

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 55 or 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	\$1,100.00
All additional On-Peak Billing Demand (\$/kW)	\$9.70
Off-Peak Demand in excess of On-Peak Billing Demand (\$/kW)	\$4.25

Energy Charge

On-Peak kWh (¢/kWh)	4.255¢
Off-Peak kWh (¢/kWh)	3.336¢

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 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.

Filing Date November 5, 2012 MPUC Docket No. E015/ GR-09-1151
Effective Date January 1, 2013 Order Date December 10, 2012

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

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

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 5, 2012 MPUC Docket No. E015/ GR-09-1151
Effective Date January 1, 2013 Order Date December 10, 2012

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

PILOT RIDER FOR RESIDENTIAL TIME-OF-DAY SERVICE

APPLICATION

Applicable to customers taking service under Residential Service Schedule 20 (General) or Schedule 22 (Space Heating), for single-family dwellings in the following ZIP code areas: 55805, 55806, 55807, 55810, 55811, 55812, 55720, 55733, 55779, 55803 and 55808. All provisions of the Residential Service Schedule shall apply to the Residential Time-Of-Day service under this Rider except as noted below. This voluntary experimental Rider is limited to current participants under this Rider.

RATE MODIFICATION

Customers will be billed at the Residential Service rate, plus the following Energy Charge Adjustments shall apply:

	<u>Energy Charge Adjustment</u>
All Off-Peak kWh	-2.990¢/kWh
All On-Peak kWh	4.870¢/kWh
Critical Peak Pricing kWh	77.000¢/kWh

SERVICE CONDITIONS

On-Peak and Off-Peak Period Defined: The On-Peak Periods shall be defined as 8:00 a.m. to 10:00 p.m., Monday through Friday, inclusive, excluding holidays and Critical Peak Pricing periods as defined below. The Off-Peak Periods 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.

Critical Peak Pricing Declaration and Notification: The Company at its sole discretion will determine when to declare a Critical Peak Pricing period. Normal Critical Peak Pricing periods will be declared in the summer during only the following hours: from 12:00 p.m. to 3:00 p.m. of each day that the Company declares to be a critical peak day and in the winter during only the following hours: from 5:00 p.m. to 8:00 p.m. for each day the Company declares to be a critical peak day.

Filing Date April 15, 2016 MPUC Docket No. E015/M-12-233
Effective Date May 1, 2017 Order Date February 15, 2017

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

PILOT RIDER FOR RESIDENTIAL TIME-OF-DAY SERVICE

The Company may declare a maximum of 50 hours of Critical Peak Pricing periods per calendar year.

The Company shall make reasonable efforts to notify Customers of normal Critical Peak Pricing periods in advance by 8:00 p.m. on the prior day for normal events and at least four hours prior to emergency events. Normal Critical Peak Pricing periods will generally occur on high demand days for meeting the peak electric loads and system energy requirements of the Company. Emergency Critical Peak Pricing periods will occur at times when the Midwest Independent Transmission System Operator (Midwest ISO or MISO) determines the reliability of the system is at risk and the MISO issues an Energy Emergency Alert Level 2 Event (EEA 2). The maximum duration for an emergency Critical Peak Pricing period will be eight (8) hours.

Critical Peak Pricing period notifications for normal and emergency events will be made electronically via the Company's Web site and email as well as through the Interactive Voice Response ("IVR") automated calling system; however, it is the Customer's responsibility to receive such notice, check the Company's Web site or call a phone number specified by the Company to determine if a critical peak day has been declared.

SPECIAL RULES

1. Any Customer choosing to be served on this Rider thereby waives all rights to any billing adjustment arising from any claim that the bill for the Customer's services would be cheaper on any alternative rate schedule for any period of time.
2. If Customer served under this Rider moves to a different dwelling, the Customer has the option to retain time-of-day billing at the new premise or decide to discontinue time-of-day billing.

PRIVACY PROVISION

The Company follows its standard operational privacy guidelines and practices for all customers, including those participating in this Rider. The Company complies with the State and Federal laws and regulations governing utility customer data use such as the Federal Power Act, the Minnesota Public Utilities Act, and the Minnesota State Statutes (such as Chapters 47 and 248 B.).

Filing Date April 15, 2016 MPUC Docket No. E015/M-12-233
Effective Date May 1, 2017 Order Date February 15, 2017

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

PILOT RIDER FOR RESIDENTIAL TIME-OF-DAY SERVICE

The Company routinely collects data about and from its Customers through various sources as part of the normal course of providing services. Customer personal information, account and usage details, billing information, and program participation details are secured and retained in internal and online databases in accordance with the Company's standard operational guidelines which maintain administrative, technical, and physical safeguards to protect the privacy and security of the information. These safeguards include but are not limited to encryption, password protection, and secured files and buildings.

Survey and Portal Data:

To participate in the pilot Rate, Customers are asked to set up a user ID and password through a secure on-line portal called the Power of One® Choice Portal. This is an enhanced adaptation of the Company's existing Power of One® Portal offered through its conservation program and features new tools and information about energy usage information for pilot participants. As part of the pilot, the Company asks all customers to complete the Your Home Energy Report ("YHER") questionnaire as an initial step. Results from the questionnaire generate an YHER which serves as an educational tool offered to residential customers as part of the Company's conservation program. This survey asks questions about the Customer's dwelling, including size and age of home, heating and cooling systems, and appliance holdings. In addition to the standard YHER questions, DOE-specified questions relating to education, income, energy awareness, and the pilot program are included for pilot participants. No questions or responses are required. Additional feedback surveys and communications will be delivered through the portal during the course of the pilot.

Survey responses, online portal activity including a daily count of page views, click-through data for websites, and other customer engagement statistics will be collected and reported.

Energy Consumption Data:

Energy consumption and tariff data will be collected during the participation period. This data includes:

- a. Date and hour of each day, with time zone;
- b. Hourly interval meter usage data for 0-12 months prior to commencement of the Rider (depending upon the date of meter installation relative to start of Rider) and during the participation period;

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Effective Date May 1, 2017 **Order Date** February 15, 2017

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

PILOT RIDER FOR RESIDENTIAL TIME-OF-DAY SERVICE

- c. Hourly weather data from the nearest weather station for 12 months prior to commencement of the Rider and during the participation period;
- d. Tariff sheet reference (i.e., which tariff sheet(s) each customer was on and the date range that the customer was on that tariff sheet for the 12 months prior to the commencement of the Rider);
- e. Start date of billing cycle;
- f. Monthly electricity bill (i.e., \$ amount) for 12 months prior to commencement of the Rider;
- g. Electricity usage from the monthly bill for 12 months prior to commencement of the Rider and during the participation period; and
- h. For each event, the type of notification, number of notification channels, number of hours in advance, and success or failure (e.g., for customer #492, for the critical event on 5/03/2012, notified via email – email bounced, notified via phone – no answer).

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Filing Date <u> April 15, 2016 </u>	MPUC Docket No. <u> E015/M-12-233 </u>
Effective Date <u> May 1, 2017 </u>	Order Date <u> February 15, 2017 </u>

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

**PILOT RIDER FOR CUSTOMER AFFORDABILITY OF RESIDENTIAL ELECTRICITY
(CARE)**

APPLICATION

Applicable to any Residential Service Customer taking service under Rate Code 20 (General) or Rate Code 22 (Space Heating) who is approved as qualified for the Low Income Home Energy Assistance Program (LIHEAP) or other heating assistance program by a designated social service agency (Agency) within Company's service territory during the program year (October 1 to September 30). Customers must receive certification annually through authorized Agency to be eligible for this Rider.

AFFORDABILITY SURCHARGE

For Customers taking service under: Residential Service (Rate Code 20, 22, and 23) except those residential customers who are qualified for LIHEAP, General Service (Rate Code 25), Large Light & Power (Rate Code 75), Erie Mine Site (Rate Code 72), Large Power (Rate Code 74), Non-Contract Large Power (Rate Code 78) and Municipal Pumping (Rate Code 87) there shall be added to each service agreement, as designated above, on their monthly bill, an Affordability Surcharge as specified below:

Residential (Except LIHEAP-qualified)	\$0.51
General Service	\$0.67
Large Light & Power	\$10.81
Large Power	\$1,130.72
Municipal Pumping	\$0.67

RATE MODIFICATION

All provisions of the Residential Service Schedule shall apply except as modified below:

Customer Charge	\$7.00
Energy Charge	
0 kWh to 300 kWh	3.282¢/kWh
301 kWh to 500 kWh	4.382¢/kWh
501 kWh to 750 kWh	5.482¢/kWh
751 kWh to 1,000 kWh	5.582¢/kWh
Over 1,000 kWh	5.982¢/kWh

Filing Date May 4, 2015 MPUC Docket No. E015/M-11/409
Effective Date January 5, 2016 Order Date July 10, 2015

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

**PILOT RIDER FOR CUSTOMER AFFORDABILITY OF RESIDENTIAL ELECTRICITY
(CARE)**

SERVICE CONDITIONS

1. In order to be eligible for this Rider, Customer must agree to be placed on a budget payment plan if the customer has an overdue unpaid balance. The Company will review current Customer billing information, approved LIHEAP benefits, and arrears, to establish a budget payment amount. Any past due bills for electric service will be spread over a maximum of 24 months, and Customer shall pay the agreed budgeted amount each month.
2. Customers taking service under this Rider will be encouraged to complete, within 12 months following enrollment, the Company's "Your Home Energy Report" and submit it through the Company's website, by phone, or on paper.
3. Customers must be LIHEAP eligible by June 1 of each program year to continue receiving service under this Rider. The program year starts October 1 and ends September 30 of the following year.
4. Customer must maintain an active account registered under Customer's name with the Company to be eligible for this Rider.
5. Qualified Customers are eligible to receive a rate discount under this Rider at only one residential location at any one time, and the Rider applies only to a qualified Customer's primary residence. This Rider will not be available when, in the opinion of the Company, the Customer's residency or occupancy is of temporary nature. Customer taking service under this Rider may not also take service under the standard Residential rate for either General, and Space Heating or Seasonal service.
6. It is the Customer's responsibility to notify the Company if there is a change of address or eligibility status.
7. Application of this Rider shall be prospective, and the Rider discounted rates shall not be applicable to past due bills.
8. If the participating Customer misses two consecutive payments, the Customer will be removed from this Rider and placed back on the standard Residential rate and will become subject to standard collection activities for any past due amounts.
9. Refusal or failure of a Customer or Agency to provide documentation of eligibility acceptable to the Company may result in Customer removal from this Rider.

Filing Date May 4, 2015 MPUC Docket No. E015/M-11/409
Effective Date January 5, 2016 Order Date July 10, 2015

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

**PILOT RIDER FOR CUSTOMER AFFORDABILITY OF RESIDENTIAL ELECTRICITY
(CARE)**

10. Customer may be re-billed for periods of ineligibility under the applicable standard rate schedule.

ARREARAGE FORGIVENESS CONDITIONS

1. Current CARE participants with past-due arrears balances that satisfy Service Condition 1 are eligible for Arrearage Forgiveness.
2. Potential Arrearage Forgiveness applies to outstanding arrears at the time of CARE enrollment or as of the effective date of the Arrearage Forgiveness component, whichever is later.
3. The Arrearage Forgiveness shall in no event exceed the outstanding arrears balance.
4. The Company shall total the amount of arrears payments made by all CARE customers each month, and based on available funds in the CARE Rider Tracker, shall determine the percentage matching rate and shall match each Customer's monthly paid arrears amount by applying the determined percentage to reduce arrears in the same month. The initial matching rate will be 100 percent.
5. In the event a Customer applies, qualifies and receives fuel assistance, the fuel assistance amount may be used to pay the arrears amount. The Company shall not match amounts paid by a third party; however, any amount of arrears paid by the Customer any month shall be matched by the Company by applying the percentage of reduction in place as stated in Arrearage Forgiveness Condition 4 above.
6. If a Customer has new arrears, it means the Customer has missed at least two consecutive payments, therefore, Service Condition 8 applies, and the Customer shall no longer be eligible for the CARE Program or the Arrearage Forgiveness component.

Filing Date May 4, 2015 MPUC Docket No. E015/M-11/409
Effective Date January 5, 2016 Order Date July 10, 2015

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR BOSWELL UNIT 4 EMISSION REDUCTION

Applicable to electric service under all Company's Retail Rate Schedules except Competitive Rate Schedules - Rate Codes 73 and 79. In addition, this Rider is applicable to service under Company's Rider for Large Power Interruptible Service and Rider for Large Power Incremental Production Service.

The following charges are applicable in addition to all charges for service being taken under Company's standard rate schedules:

Rate Class	Boswell 4 Plan Adjustment
Large Power	\$1.00 per kW-month of Billing Demand and 0.095¢/kWh
All other applicable Retail Rate Customers	0.265¢/kWh

Filing Date November 26, 2014 MPUC Docket No. E015/M-14-990
Effective Date September 1, 2015 Order Date August 24, 2015

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RIDER FOR CITY OF SILVER BAY FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Silver Bay, except bills for electric service to property owned by the City of Silver Bay, for the period from January 1, 2014 to December 31, 2024.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Silver Bay Franchise Fee assessment in the amount of:

\$3.00 per month for each residential electric service meter; and
\$3.00 per month for each commercial, industrial or other electric service meter.

Customers with both standard electric service meters and dual fuel meters shall not be assessed an additional application of the franchise fee for the dual fuel meter.

100% of the City of Silver Bay Franchise Fee assessment collected will be passed along to the City of Silver Bay.

Filing Date October 30, 2013 **MPUC Docket No.** E,G999/PR-13-7
Effective Date January 1, 2014 **Order Date** January 1, 2014

Approved by: Marsha A. Podratz
Marsha A. Podratz
Director - Rates

RIDER FOR CITY OF HOYT LAKES FRANCHISE FEE

APPLICATION

Applicable to bills for retail electric service within the corporate limits of the City of Hoyt Lakes, except bills for electric service to property owned by the City of Hoyt Lakes, for the period from October 2015 to October 2035.

ADJUSTMENT

There shall be added to each customer's monthly electric service bill a City of Hoyt Lakes Franchise Fee assessment in the amount of:

\$3.00 per month for each residential meter; and
\$3.00 per month for each commercial, industrial or other meter.

Customers with both standard electric service meters and dual fuel meters shall not be assessed an additional application of the franchise fee for the dual fuel meter.

100% of the City of Hoyt Lakes Franchise Fee assessment collected will be passed along to the City of Hoyt Lakes.

Filing Date July 20, 2015 **MPUC Docket No.** E,G999/CI-09-970
Effective Date October 1, 2015 **Order Date** March 23, 2011

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

DEFINITIONS OF CLASSES OF CUSTOMERS

RESIDENTIAL

A customer using electric energy supplied for residential (household) purposes.

RESIDENTIAL WITH TOTAL ELECTRIC SPACE HEATING

A subdivision of the Residential classification that includes those customers who use electricity as the source of space heating throughout the entire premises from permanently installed electric heating equipment.

COMMERCIAL

A customer using service at a location where the purchaser is engaged in selling, warehousing, or distributing a commodity, in some business activity, in rendering professional service, or in some form of social activity. In borderline cases where the nature of the customers' activities does not differentiate clearly between Commercial and Industrial, the service is classified as Commercial.

INDUSTRIAL

A customer using service at a location where the purchaser is engaged in an industrial activity, such as the operation of factories, mills, machine shops, mines, oil wells, refineries, pumping plants, cleaning and dyeing works, creameries, canning establishments, stockyards, etc., that is, in extractive, fabricating or processing activities.

GOVERNMENTAL

Municipalities and all divisions or agencies of state or federal governments.

Filing Date May 2, 2008 MPUC Docket No. E015/GR-08-415
Effective Date October 1, 2009 Order Date August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RESIDENTIAL SERVICE RULES

1. Equipment which is capable of disturbing service to neighboring customers and/or motors operating with phase converters totaling more than 20 horsepower shall be separately metered on the applicable General Service schedule. Equipment capable of disturbing service to neighboring customers may include, but is not limited to, the following: welders, motors not conforming to Company's starting current limits, cooking and heating equipment of a design not approved by the Company.

2. In buildings having two or more apartments (as defined below), each apartment shall be considered a single-family dwelling. For each apartment building or portion of a building used for apartments that is arranged to permit the consumption of electricity by each apartment to be individually metered, Company will install meters to measure the consumption of electricity and will separately bill each individual apartment on the applicable rate schedule. However, where a landlord advises the Company that service applies to a single-metered apartment the billing shall be to the landlord and in accordance with Minn. Stat. 504B.215. In all other cases, the billing shall be computed as though each apartment used an equal portion of the total service and were independently billed. Service shall not be submetered or resold.

3. An apartment is defined as a portion of a building consisting of two or more rooms completely equipped for living purposes. Janitor's quarters shall be classed as an apartment.

4. A customer occupying a building or apartment for residential and commercial purposes jointly may combine his residential and commercial use on the applicable General Service schedule but not under the Residential Service schedule.

5. The public portion of apartment buildings, such as lobbies, halls, laundry rooms, boiler rooms, etc., and the power equipment, such as coal stokers, oil burners, air conditioners, elevators, etc., shall be served on the applicable General Service schedule.

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Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

ELECTRIC SERVICE REGULATIONS of MINNESOTA POWER

PURPOSE AND CONTENTS

These Service Regulations govern the supplying and taking of electric service. The regulations are designed to provide each Customer the greatest practicable latitude in the use of service consistent with reliable, economical and safe service to all Customers.

These Service Regulations, together with Extension Rules and Rate Schedules, are on file in the Company's various offices, and copies are obtainable by any Customer upon request by telephone, by mail, or www.mnpower.com.

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SECTION I - DEFINITIONS

The following terms when used in these Service Regulations, in Rate Schedules and in Service Agreements, shall, unless otherwise indicated, have the meanings given below:

1. **Customer:** Any individual(s), partnership, association, firm, public or private corporation or governmental agency having Company's electric service at any specified location.

2. **Company:** Minnesota Power.

3. **Electric Service:** The supplying of electric power and energy, or its availability, irrespective of whether any electric power and energy is actually used. Supplying of service by Company consists of the maintaining by it, at the point of delivery, of approximately the agreed voltage and frequency by means of facilities adequate for carrying Customer's contracted load.

4. **Point of Delivery:** The end of Company's service drop, or the point where Company's wires are joined to Customer's service entrance conductors or apparatus, unless otherwise specified in Customer's Service Agreement.

5. **Customer's Installation:** In general, all wiring, appliances and apparatus of any kind or nature on Customer's side of the point of delivery (except Company's meter installation), useful in connection with Customer's ability to take electric service.

6. **Service Drop:** The wires, owned by Company, connecting Company's distribution mains to Customer's service entrance conductors.

7. **Service Entrance Conductors:** The wires provided by the Customer extending from Customer's main line switch or center at which circuits originate, to the terminal of the Company's service drop.

8. **Month:** An interval of approximately thirty days between successive meter reading dates, except when the calendar month is specified.

9. **Service Agreement:** The agreement or contract between Company and Customer pursuant to which service is supplied and taken.

10. **Notice:** Unless otherwise specified, a written notification delivered personally or mailed by one party to the other at such other party's last known address, the period of notice being computed from the date of such personal delivery or mailing.

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11. **Meter:** The meter or meters, together with auxiliary devices, if any, constituting the complete installation needed to measure and report the power and energy supplied to any Customer at a single point of delivery.

12. **Customer Extension:** Any branch from, or continuation of, an existing line to the point of delivery to Customer, including increases in capacity of any of Company's existing facilities, or the changing of any line to meet the Customer's requirements, and including all transformers, service drops and meters.

SECTION II - SERVICE AGREEMENTS

13. **Form and Execution of Service Agreements:** Each application for service normally is made on Company's standard form of application, which, when properly executed by Customer and Company, becomes binding and along with the applicable Rate Schedules, Rules and Regulations, is termed a Service Agreement. Any Service Agreement referred to herein is subject to amendment or change by Company. Any such amendment or change to a Service Agreement may be subject to acceptance or approval by any regulatory body having jurisdiction thereof and upon acceptance or approval will automatically apply to any executed Service Agreement.

If for any reason an application is not signed by the Customer, the giving of service by the Company and the accepting of such service by all Customers receiving service shall impose the same obligation on each as if a Service Agreement had been executed.

14. **Contract Period of Service Agreements:** The contract period shall be as indicated in the applicable Rate Schedule, unless otherwise provided for in the Service Agreement.

15. **Renewal and Termination of Service Agreements:** Renewals shall be as provided for in the Service Agreement. Unless otherwise provided in the Service Agreement or Rate Schedule, Customer may terminate service at any time by notifying Company not less than three days prior to the date termination is desired. Customer will be held responsible for all service supplied to vacated premises until such notice has been received by Company. Notification may be made by writing, by telephone, mail or by visiting the Company's website at www.mnpower.com.

When the contract period of a Service Agreement is extended, the demand previously established by Customer is considered as having been established under the extended contract period.

When a new Service Agreement is entered into, the demand previously established by Customer is considered as having been established under the contract period of the new

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Service Agreement except that, when the contract demand under the new Service Agreement is less than 60% of the highest actual demand established in the previous contract year, the Company will waive the above requirement.

16. Company's Right to Cancel Service Agreement or to Suspend Service: Company, in addition to all other legal remedies, may terminate the Service Agreement, or suspend delivery of service, for any default or breach of the Service Agreement by the Customer, but no such termination or suspension will be made by Company without five (5) days written notice, excluding Sundays and legal holidays, to Customer, stating in what particular the Service Agreement has been violated, except in cases of unlawful or unauthorized use of service by Customer, or dangerous leakage or short circuit on Customer's side of the point of delivery, or in case of utilization by Customer of service in such manner as to cause danger to persons or property. Failure of Company at any time to either suspend delivery of service or to terminate the Service Agreement, or to resort to any other legal remedy, or its adoption of either one or the other of such alternatives, shall not affect Company's right to resort to any of such remedies for the same or any future default or breach by Customer.

17. Successors and Assigns: Service Agreements inure to the benefit of and are binding upon the respective heirs, legal representatives, successors and assigns of the parties thereto; but no assignment by Customer shall be binding upon Company until accepted in writing by the latter.

SECTION III - SUPPLY AND TAKING OF SERVICE

18. Supplying of Service: Service is supplied only under and pursuant to these Service Regulations and the applicable Rate Schedule, Riders, and Regulatory Rules. Service is supplied under a given Rate Schedule only at such points of delivery as are adjacent to facilities of Company adequate and suitable, as to capacity and voltage, for the service desired.

Service will be subject to disconnection and deposit requirements as provided by rules of the Minnesota Public Utilities Commission and other applicable law, if, at the time of application for service, the Customer is indebted to the Company for service previously supplied at the same or another address.

19. Disconnection of Service:

A. With Notice - Service may be disconnected with notice for any reason under Minn. Rules Part 7820.1000 or as may otherwise be provided in Company's Service Regulations, Service Schedules or Service Agreements.

B. Without Notice - Service may be disconnected without notice for any reason under Minn. Rules Part 7820.1100 or as may otherwise be provided in Company's Service Regulations, Service Schedules or Service Agreements.

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20. **Reconnection of Service:** Company shall reconnect service following disconnection for non-payment only after all past due accounts, deposits and reconnection fees, where applicable, shall have been paid.

- A. The Service Reconnection Fee shall be as follows:
 - i. \$20.00 between the hours of 8:00 AM and 4:30 PM Monday through Friday.
 - ii. \$100.00 after 4:30 PM, before 8:00 AM and on Saturdays, Sundays and legal holidays.
- B. Where service has been disconnected under Minn. Rules Part 7820.1100.B., a reconnection fee will not be required.
- C. Following disconnection under Minn. Rules 7820.1100.A., reconnection will occur only after Company has received payment from Customer of the following:
 - i. Power and energy not recorded on the meter at the appropriate rate, the amount of which may be estimated by Company based on the best available data.
 - ii. All expenses incurred by Company due to any such unauthorized act or acts.

21. **Service Relock Penalty:**

- A. Company shall assess a Service Relock Penalty of \$100 where the Company has previously disconnected service and is required to subsequently return to relock or disconnect the service after it was connected by a Customer without Company authorization.
- B. Company shall assess a penalty for all expenses incurred if additional disconnection of service is required at Customer premises.
- C. In the event of any loss or damage to such property of Company or other person caused by or arising out of carelessness, neglect or misuse by Customer or other unauthorized persons, the cost of making good such loss or repairing such damage shall be paid by Customer.

22. **Continuity of Service:** Company will endeavor to provide continuous service but does not guarantee a constant supply of electric energy and shall not be liable to Customer for damages occasioned by interruption, except as provided by law. The Company shall not be liable for any loss of profits, special, or consequential damages resulting from the use of service or any interruption or disturbance of service.

In the event of power shortage any curtailment among Customers shall be made as nearly as practical pro rata without liability on the part of Company to any Customer affected.

If any part of service furnished by Company is employed for purpose of pumping water, Company assumes no obligation to maintain an adequate supply for fire protection, or any other purpose, whatsoever, and such use shall not subject Company to any liability to any party for damages to person or property due to failure of water supply resulting from an interruption or deficiency of electric service from whatsoever cause the same may arise.

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23. **Suspension of Service for Repairs and Changes:** When necessary to make repairs to or changes in its lines or system, Company may, without incurring any liability therefore, suspend service for such periods as may be necessary, and in such manner as to minimize inconvenience to Customer.

24. **Use of Service:** Service is for Customer's use only. Company permits redistribution and submetering only where allowed by law. The electric service equipment and associated building wiring of buildings shall be arranged by the owner to permit individual metering of the electrical consumption of each building and occupancy unit to comply with Minn. Stat. 504B.161 and any law amendatory thereto. If desired by the owner, the Company will install and maintain necessary individual Company meters to measure consumption and render bills on the applicable Rate Schedules to each Customer and separately occupied building and occupancy unit.

In no case may Customer, except with the written consent of Company, extend or connect an installation to lines across or under a street, alley, lane, court or avenue or other public or private space in order to obtain service for adjacent property through one meter even though such adjacent property be owned by Customer. Such consent may be given when such adjacent properties are operated as one integral unit under the same name and for carrying on parts of the same business. In case of unauthorized remetering, sale or extension of service to another person, Company, after five (5) days written notice excluding Sundays and legal holidays, may discontinue the supplying of service to Customer until such unauthorized act is discontinued and full payment is made for all service supplied or used, billed on proper classification and Rate Schedule, and reimbursement in full made to Company for all extra expenses incurred, including expenses for clerical work, testing and inspections.

25. **Customer's Responsibility:** Customer assumes all responsibility on Customer's side of the point of delivery for the service supplied or taken, as well as for the electrical installation, appliances and apparatus used in connection therewith, and shall save Company harmless from and against all claims for injury or damage to persons or property occasioned by or in any way resulting from such service or the use thereof on Customer's side of the point of delivery.

26. **Right-of-Way:** Customer shall, without compensation, make or procure satisfactory conveyance to Company of right-of-way for Company's lines necessary and incidental to the furnishing of service to Customer and for continuing or extending said lines over, under, across or through the property owned or controlled by Customer in a manner deemed appropriate by the Company.

27. **Access to Premises:** Company personnel may enter Customer's premises only as authorized by applicable law and regulations. Failure of Customer to provide Company reasonable access may result in disconnection of service under Minn. Rules Part 7820.1000(E).

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28. **Location of Point of Attachment:** Customer's Point of Attachment is to be located at a point readily accessible to Company's distribution mains. Customer shall install and maintain a point of attachment for Company's service drop. Said point of attachment shall be of sufficient mechanical strength to support the wind and ice loaded weight of the service drop and shall be located as determined by the Company.

SECTION IV - CUSTOMER'S INSTALLATION

29. **Nature and Use of Installation:** All of Customer's wires, apparatus and equipment shall be selected with the view to obtaining safety, good efficiency, good voltage regulation and the highest practicable power factor and shall be installed in accordance with standard practices. Customer shall install and maintain, on Customer's side of point of delivery, suitable protective equipment as may be required by the Company for the protection of its service to other customers and may not employ or utilize any equipment, appliance or device so as to affect adversely Company's service to Customer or to others. The Company's failure to require such equipment shall not operate to relieve Customer from the obligation to utilize and comply with standard practices. Company may require auto starters or other suitable starting devices for motors above 5 horsepower. When polyphase service is supplied by Company, Customer shall control the use thereof so that the load at the point of delivery will be maintained in reasonable electrical balance between the phases.

Installations of neon, fluorescent, mercury vapor lamps or tubes, or other types of gaseous tube lamps, or other devices having low power factor characteristics, should be equipped with corrective apparatus to increase the power factor of each unit or separately controlled group of units to not less than approximately 90% lagging.

30. **Inspection by Company:** Company retains the right, but does not assume the duty, to inspect Customer's installation at any time and will refuse to commence or to continue service whenever it does not consider such installation to be in good operating condition, but Company does not in any event assume any responsibility whatever in connection with such matters.

31. **Changes in Installations:** As Company's service drops, transformers, meters, and other facilities used in supplying service to Customer have a definite limited capacity, Customer shall give notice to Company, and obtain Company's consent, before making any material changes or increases in Customer's installation. Company as promptly as possible after receipt of such notice will give its approval to the proposed change or increase, or will advise Customer upon what conditions service can be supplied for such change or increase. Failure to secure Company's approval shall make Customer liable for any damage to Company's facilities.

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SECTION V - COMPANY'S INSTALLATION

32. **Installation and Maintenance:** Except as otherwise provided in these Service Regulations, in Service Agreements or Rate Schedules, Company will install and maintain its lines and equipment on its side of the point of delivery, but shall not be required to install or maintain any lines or equipment, except meters, on Customer's side of the point of delivery. Only Company's agents are authorized to connect Company's service drop to Customer's service entrance conductors and to connect Company's meters.

(a) **Electrical Permit:** The Company is prohibited from connecting its service drop to Customer's service entrance conductors until permitted by the governmental authority having jurisdiction.

(b) **Standard Connection:** The ordinary method of connection between Company's distribution mains and Customer's service entrance conductors will be by overhead wires. If Customer desires to have connection made in any other manner, special arrangements will be made between Customer and Company by which the connection will be made and maintained at Customer's expense.

(c) **Suitable Space:** The Customer shall provide at no cost to Company a suitable room or space for Company's transformers and equipment specifically used in providing service to Customer when such room or space is deemed necessary by Company.

33. **Protection by Customer:** Customer shall protect Company's wiring and apparatus on Customer's premises and shall permit no one except Company's agents or persons authorized by law to inspect or handle same. In the event of any loss or damage to such property of Company or other person caused by or arising out of carelessness, neglect or misuse by Customer or other unauthorized persons, the cost of making good such loss or repairing such damage shall be paid by Customer.

Company shall not be responsible to Customer or any other party because of any damage resulting from such installations which are not readily subject to inspection from the ground and the exterior of the premises, or from the meter location, unless Customer shall have notified Company of a condition which, in the reasonable opinion of the Customer, requires attention and the Company shall have had a reasonable time within which to inspect and, if necessary, repair the same.

34. **Customer Extensions:** The Company, at its own expense, makes extensions where the revenue therefrom is sufficient, in Company's opinion, to justify the necessary expenditure.

Where the Company cannot be assured that the business offered is of sufficient duration, where unusual expenditures are necessary to supply service because of location, size or character of installation, or where area requirements of regulatory bodies may control, the Customer or Customers shall make arrangements satisfactory to Company dependent upon the particular conditions of each situation.

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35. **Alteration of Facilities:** Company will, at its discretion, alter, relocate, convert to underground, or remove Company's facilities as may be requested in writing by Customer. Customer shall pay Company for all costs, except as limited below, associated with such alteration, relocation, conversion to underground, or removal including any new facilities required to provide service after the alteration, relocation, conversion, or removal.

Customers requesting the alteration, relocation, conversion, or removal shall pay the estimated cost for the change, less salvage, of the facilities required to effect such change prior to Company committing funds for the work. Where the actual cost is different from the estimated cost upon which the advance payment was based, as determined upon completion of the requested alteration, relocation, or removal, Company will refund any excess payment made by Customer or render a bill for any additional amount due. However, where Company's estimated cost is less than \$5,000, and actual cost exceeds such estimate, the additional amount due by Customer shall not exceed 15 percent of the estimate, regardless of the amount of actual cost.

SECTION VI - METERING

36. **Installation:** Company shall furnish and install the necessary meter or meters, and Customer shall provide and maintain a location, free of expense and satisfactory to Company, all in accordance with Company's Metering Standards.

37. **Evidence of Consumption:** Unless proven to be inaccurate, the registration of Company's meter shall be accepted and received at all times and places as prima facie evidence of the amount of power and energy taken by Customer.

38. **Tests:** Company tests its meters and maintains their accuracy of registration in accordance with good practice. On request of Customer, Company will make a special test which will be done at the expense of the Company. If the Customer requests another test before the expiration of a twelve-month period, the Customer shall bear the cost of the test if the meter is found to be in error by less than 2%, fast or slow. The average registration accuracy of a meter is taken as the mean of full load (100% of rated load) accuracy, and light load (5-10% of rated load) accuracy. At Company's discretion, tests may be made under average load conditions.

SECTION VII - PARALLEL GENERATION

39. **Design:** Customer's electric generating equipment shall be designed (1) to operate in synchronization with Company's system and (2) to automatically disconnect the facility from Company's system in the event Company's system becomes de-energized. All synchronizing and protective devices to accomplish this mode of operation shall be provided and maintained by Customer.

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40. **Disconnection:** Customer shall provide and maintain a manual, lockable disconnect switch providing a visible open and capable of isolating the Customer's generator from the Company's electrical system. This disconnect switch shall be readily accessible to Company personnel at all times, shall include a provision for padlocking it in the open position, and shall meet all other reasonable requirements established by Company.

41. **Customer Responsibility:** Customer shall pay for the cost of rebuilding and/or modifying Company facilities to provide adequate capacity for the parallel generation system and adequate protection for the Company's electrical system.

Customer shall be subject to Company's Safety Standards and Interconnection Requirements Applicable to Cogenerators and/or Small Power Producers of Minnesota Power as filed annually with the Commission. Copies of such standards shall be made available to Customer upon request and are available at www.mnpower.com.

SECTION VIII - BILLING

42. **Billing Periods:** Bills ordinarily are rendered regularly at monthly intervals, but may be rendered more or less frequently at Company's option. Non-receipt of bills by Customer does not release or diminish the obligation of Customer with respect to payment thereof.

43. **Separate Billing for Each Point of Delivery:** At each point of delivery the use of service is metered separately for each Customer served. Whenever for any reason Company furnishes two or more meter installations for a single Customer, or supplies service under a Rate Schedule which does not require a meter, each point of metering and/or point of delivery where no meter is required is considered as a separate service. A separate Service Agreement is required, and bills are separately calculated, for each such separate service, except where Company may, under special circumstances, waive this requirement.

44. **Adjustment for Inaccurate Meter Registration:**

Meter too fast or too slow: In the event that any routine or special test of a Company meter discloses its average accuracy of registration to be in error by more than 2%, fast or slow, Company will refund the overcharge for a fast meter or charge for electricity consumed, but not included in the bills previously rendered for a slow meter. The refund or charge for both fast and slow meters will be based on corrected meter readings for a period equal to one-half the time elapsed since the last previous test but not to exceed six (6) months, unless it can be established that the error was due to some cause, the date of which can be fixed with reasonable certainty, in which case the refund or charge will be computed to that date, but in no event for a period longer than one (1) year.

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Whenever any bill or bills have been adjusted or corrected as provided above, the Company will refund to existing Customer any amount due when the amount due exceeds one (\$1) dollar or to previous Customer any amount due when the amount due exceeds two (\$2) dollars or Company will bill Customer for any amount owed when the amount owed exceeds ten (\$10) dollars, as the case may be.

Meter fails to register or registers intermittently: When the average error cannot be determined by test because the meter is not found to register or is found to register intermittently, the Company may charge for an estimated amount of electricity used, which shall be calculated by averaging the amounts registered over corresponding periods in previous years or in the absence of such information, over similar periods of known accurate measurement preceding or subsequent thereto, but in no event shall such charge be for a period longer than one year.

If a Customer has called to the Company's attention doubts as to the meter's accuracy and the Company has failed within a reasonable time to check it, there shall be no back billing for the period between the date of the Customer's notification and the date the meter was checked.

45. **Late Payment Charge:** Company shall assess a Late Payment Charge of 1-1/2% or \$1.00 per monthly billing period, whichever is greater, on that portion of a retail Customer's account representing charges for Company service(s) past due, if the unpaid balance exceeds \$10.00. All late payments received will be credited against the oldest outstanding account balance before the application of any Late Payment Charge. The unpaid Company account balance for a Customer under the Budget Billing Plan or another Company approved payment plan shall mean that the Company budget arrears balance and not the accumulated actual Company balance will be subject to a Late Payment Charge. No Late Payment Charge will be charged on the portion of the Company balance in dispute while dispute procedures are underway. A Late Payment Charge may be retroactively charged on the settled amount after dispute procedures are completed. At Company's discretion, any Late Payment Charge, or portion thereof, may be waived provided such waiver is consistent with the Minnesota Public Utilities Act.

A. **Residential customer:** A Late Payment Charge shall be added to any Company account for which payment is not received and credited by Company by the next scheduled billing date. Residential customer who qualifies for assistance under the Low Income Home Energy Assistance Program (LIHEAP) may request waiver of the Late Payment Charge on the "current bill" portion of each monthly bill. Self-qualification using LIHEAP income guidelines will be permitted for Senior Citizens at age 62 or older. Efforts will be made by Company to work with local governmental agencies to pre-qualify Customers where administratively feasible. Customer accounts must be re-qualified annually.

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B. **Nonresidential customer:** A Late Payment Charge shall be added to any Company account for which bill payment is not received and credited by Company within fifteen (15) days from the current billing date.

46. **Delinquent Bills:** Bills become delinquent if not paid on or before the past due date as shown on bill and service may be discontinued upon five (5) days written notice, excluding Sundays and legal holidays, to Customer after becoming delinquent. During the cold weather months, October 15 through April 15, service may be disconnected only as provided in section 60 and Minnesota Statutes, section 216B.096. For residential customers, such written notice of disconnection shall specify a disconnection date not earlier than the third working day after the next scheduled billing date.

47. **Unlawful Use of Service:** In any case of tampering with meter installation or interfering with the proper functioning thereof or any other unlawful use or diversion of service by any person, or evidence of any such tampering, interfering, unlawful use or service diversion, Customer is liable to immediate discontinuance of service, without notice, and to prosecution under applicable laws, and Company shall be entitled to collect from Customer at the appropriate rate for all power and energy not recorded on the meter by reason of such tampering, interfering, or other unlawful use or service diversion (the amount of which may be estimated by Company from the best available data), and also for all expenses incurred by the Company on account of such unauthorized act or acts.

48. **Charge for Restoring Service:** If service to Customer is discontinued by Company for valid cause, then before service is restored, Customer shall pay Company all permitted costs of discontinuing and restoring service. There will be no charge for reconnection when service has been discontinued in the event of a condition determined to be hazardous to Customer, to other Customers of Company, to Company's equipment, or to the public.

If Customer requests that service be discontinued and subsequently requests restoration of service at same premises within twelve (12) months of discontinuance, the charge for restoring service will be the sum of minimum bills during the elapsed period but not less than all costs of discontinuing and restoring service.

49. **Selection of Schedule:** The Company's Rate Schedules are designed for service supplied to Customer on a continuous annual basis. Customer may elect to take service under any of the Rate Schedules applicable to such service. Company will advise Customer of the Rate Schedules which, in its judgment, are best adapted to Customer's needs on an annual basis, but such advice must be based upon Customer's statements as to Customer's installation and requirements for service and Company assumes no responsibility for the selection of the Rate Schedule made by Customer. If Customer changes selection of a Rate Schedule, Customer may not go back to the previous Rate Schedule for a period of twelve (12)

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months; provided, however, that a Large Light and Power Customer whose normal monthly firm demand is below 10,000 kW shall be billed on the Large Power Service Schedule in months in which its measured demand, as adjusted for power factor, exceeds 10,000 kW, and shall go back to the Large Light and Power Service Schedule when its demand falls below 10,000 kW. Rules applicable to specific Rate Schedules shall apply when Customer desires service on other than a continuous annual basis, or the term of service provision of the Rate Schedule is greater than one (1) year.

If, for any cause a Service Agreement is entered into in which is specified a Rate Schedule not applicable to the class of service taken, on discovery of the error all bills rendered during the preceding twelve (12) months will be recalculated in accordance with the properly applicable Rate Schedule and Company will refund to existing Customer any amount due, when the amount due exceeds one (\$1) dollar or to previous Customer any amount due, when the amount due exceeds two (\$2) dollars, or Company will bill Customer for any amount owed, when the amount owed exceeds ten (\$10) dollars, as the case may be. If the amount due Company is not paid within ten (10) days from presentation of bill, or Customer does not agree to payment over a reasonable period of time, or Customer fails to sign a new Service Agreement, Company may, after five (5) days written notice excluding Sundays and legal holidays, disconnect service.

50. Proration of Bills: Bills for energy used during a billing period that is longer or shorter than the normal billing period by more than five (5) days shall be prorated on a daily basis, but no billing will be made for three (3) or less days when no energy is used. However, in no event will the total length of service between initial and final service be taken as less than one (1) month.

No bill will be prorated for change in operating level within the billing period.

51. Company Billing Errors: When a Customer has been overcharged or undercharged as a result of incorrect reading of the meter, incorrect application of rate schedule, incorrect connection of the meter, application of an incorrect multiplier or constant or other similar reasons, the amount of the overcharge shall be refunded to the Customer or the amount of the undercharge may be billed to the Customer as detailed in Minnesota Administrative Rules 7820.3800 subparts 2 through 4.

A. Remedy for overcharge. If a Customer was overcharged, the Company shall calculate the difference between the amount collected for service rendered and the amount the Company should have collected for service rendered, plus interest up to a maximum of three years from the date of discovery. Interest will be calculated as prescribed by Minnesota Statutes, section 325E.02(b). If the recalculated amount indicates that more than \$1 is due an existing Customer or \$2 is due a person no longer a Customer of the Company, the full amount of the calculated difference between the amount paid and the recalculated amount shall be refunded to the Customer.

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B. **Remedy for undercharge.** If a Customer was undercharged, the Company shall calculate the difference between the amount collected for service rendered and the amount the Company should have collected for service rendered, for the period beginning one year before the date of discovery. If the recalculated amount due the Company exceeds \$10, the Company may bill the Customer for the amount due. The Company must not bill any undercharge incurred after the date of a Customer inquiry or complaint if the Company failed to begin investigating the matter within a reasonable time and the inquiry or complaint ultimately resulted in the discovery of the undercharge.

C. **Exception if error date known.** If the date the error occurred can be fixed with reasonable certainty, the remedy shall be calculated on the basis of payments for service rendered after that date, but in no event for a period beginning more than three years before the discovery of an overcharge or one year before the discovery of an undercharge.

SECTION IX - DEPOSITS AND GUARANTEES

52. **When Required:** Company may require Customer to make a deposit or guarantee satisfactory to Company to secure the payment of bills as they become due. Specific conditions requiring deposits or guarantees are identified in Regulation 54. The amount of such deposit shall not exceed twice the average monthly bill of Customer as estimated by Company from Customer's statement in his or her application or as thereafter ascertained.

53. **When Refunded:** The deposit shall be refunded to Customer after twelve (12) consecutive months of prompt payment of all Company bills. Company may, at its option, refund the deposit by direct payment or as a credit on the bill. Upon termination of service, the deposit with accrued interest shall be credited to Customer's final bill and the balance, if any, shall be returned within forty-five (45) days to Customer with a written receipt as required under Minn. Stat. 325E.02(b).

54. **Interest on Deposits:** Interest shall be paid annually on all deposits at the rate specified by Minn. Stat. 325E.02(b) or other applicable laws of the State of Minnesota and will be applied against the electric service bill. Any unpaid interest at time of final settlement of Customer's accounts will be credited to Customer's accounts.

55. **Conditions Requiring a Deposit or Guarantee:** Company may require a deposit or guarantee of payment as condition of obtaining new service or continuing existing service under Minn. Rules Part 7820.4300, 7820.4400 or as may otherwise be provided below.

A. Customer has outstanding a prior utility service account with another electric or gas utility which at the time of request for service remains unpaid and not in dispute.

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B. Information requested under Minn. Rules Part 7820.4300 or 7820.4400 is not provided within twenty (20) days of the request for service (except where Customer has sought but not yet received credit information from a prior utility).

C. Information provided pursuant to Minn. Rules Part 7820.4300 or 7820.4400 is determined to be false or erroneous.

56. **Conditional Service Prior to Establishment of Credit:** Conditional service shall be provided expeditiously upon receipt of an application for service, and for up to twenty (20) days until credit has been satisfactorily established. Conditional service may be disconnected immediately without notice if required information or a required deposit or guarantee has not been received twenty (20) days after Company's request.

SECTION X – COLD WEATHER RULE

57. **Applicability.** This section applies only to residential customers of the Company.

58. **Definitions.**

- A. The terms used in this section have the meanings given them in Minnesota Statute, 216B.096.
- B. "Cold weather period" means the period from October 15 through April 15 of the following year.
- C. "Customer" means a residential customer of the Company.
- D. "Disconnection" means the involuntary loss of Company heating service as a result of a physical act by the Company to discontinue service. Disconnection includes installation of a service or load limiter or any device that limits or interrupts Company service in any way.
- E. "Household income" means the combined income, as defined in Minnesota Statutes 290A.03, subdivision 3, of all residents of the Customer's household, computed on an annual basis. Household income does not include any amount received for energy assistance.
- F. "Reasonably timely payment" means payment within five working days of agreed-upon due dates.
- G. "Reconnection" means the restoration of Company heating service after it has been disconnected.

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- H. "Summary of rights and responsibilities" means a Commission-approved notice that contains, at a minimum, the following:
- 1) an explanation of the provisions of subdivision 5;
 - 2) an explanation of no-cost and low-cost methods to reduce the consumption of energy;
 - 3) a third-party notice;
 - 4) ways to avoid disconnection;
 - 5) information regarding payment agreements;
 - 6) an explanation of the Customer's right to appeal a determination of income by the Company and the right to appeal if the Company and the Customer cannot arrive at a mutually acceptable payment agreement, and a list of names and telephone numbers for county and local energy assistance, and weatherization providers in each county served by the Company.
- I. "Third-party notice" means a commission-approved notice containing, at a minimum, the following information;
- 1) a statement that the Company will send a copy of any future notice of proposed disconnection of Company heating service to a third party designated by the residential customer;
 - 2) instructions on how to request this service; and
 - 3) a statement that the residential customer should contact the person the Customer intends to designate as the third-party's name.
- J. "Company" means Minnesota Power.
- K. "Company heating service" means natural gas or electricity used as a primary heating source, including electricity service necessary to operate gas heating equipment, for the Customer's primary residence.
- L. "Working days" means Mondays through Fridays, excluding legal holidays. The day of receipt of a personally served notice and the day of mailing a notice shall not be counted in calculating working days.

59. **Company obligations before cold weather period.** Each year, between September 1 and October 15, the Company must provide all Customers, personally or by first class mail, a summary of rights and responsibilities. The summary must also be provided to all new residential customers when service is initiated.

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60. **Notice before disconnection during cold weather period.** Before disconnecting Company heating service during the cold weather period, the Company must provide, personally or by first class mail, a commission-approved notice to a Customer, in easy-to-understand language, that contains, at a minimum, the date of the scheduled disconnection, the amount due, and a summary of right and responsibilities.

61. **Cold Weather Rule**

- A. During the cold weather period, the Company may not disconnect and must reconnect Company heating service of a Customer whose household income is at or below 50 percent of the state median income if the Customer enters into and makes reasonably timely payments under a mutually acceptable payment agreement with the Company that is based on the financial resources and circumstances of the household; provided that, the Company may not require a Customer to pay more than ten percent of the household income toward current and past Company bills for Company heating service.
- B. The Company may accept more than ten percent of the household income as the payment arrangement amount if agreed to by the Customer
- C. The Customer or a designated third party may request a modification of the terms of a payment agreement previously entered into if the Customer's financial circumstances have changed or the Customer is unable to make reasonably timely payments.
- D. The payment agreement terminates at the expiration of the cold weather period unless a longer period is mutually agreed to by the Customer and the Company
- E. The Company shall use reasonable efforts to restore service within 24 hours of an accepted payment agreement, taking into consideration Customer availability.

62. **Verification of income**

- A. In verifying a Customer's household income, the Company may:
 - 1. accept the signed statement of a Customer that the Customer is income eligible;
 - 2. obtain income verification from a local energy assistance provider or a government agency;

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3. consider one or more of the following:
 - i. the most recent income tax return filed by members of the Customer's household;
 - ii. for each employed member of the Customer's household, paycheck stubs for the last two months or a written statement from the employer reporting wages earned during the preceding two months;
 - iii. documentation that the Customer receives a pension from the Department of Human Services, the Social Security Administration, the Veteran's Administration, or other pension provider; a letter showing the Customer's dismissal from a job or other documentation of unemployment; or
 - iv. other documentation that supports the Customer's declaration of income eligibility.
 - B. A Customer who receives energy assistance benefits under any federal, state or county government programs in which eligibility is defined as household income at or below 50 percent of state median income is deemed to be automatically eligible for protection under this section and no other verification of income may be required.
63. **Prohibitions and requirements.**
- A. Section 63 applies during the cold weather period.
 - B. The Company may not charge a deposit or delinquency charge to a Customer who entered into a payment agreement or a Customer who has appealed to the Commission under Minnesota Statutes 216B.096 subdivision 8.
 - C. The Company may not disconnect service during the following periods:
 - 1) during the pendency of any appeal under Minnesota Statutes 216B.096 subdivision 8;
 - 2) earlier than ten working days after the Company has deposited in first class mail, or seven working days after the Company has personally served, the notice required under Minnesota Statutes 216B.096 subdivision 4 to a Customer in an occupied dwelling;
 - 3) earlier than ten working days after the Company has deposited in first class mail the notice required under Minnesota Statutes 216B.096 subdivision 4 to the recorded billing address of the Customer, if the Company has reasonably determined from an on-site inspection that the dwelling is unoccupied;

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- 4) on a Friday, unless the Company makes personal contact with and offers a payment agreement consistent with this section to the Customer;
 - 5) on a Saturday, Sunday, holiday, or the day before the holiday;
 - 6) when Company offices are closed;
 - 7) when no Company personnel are available to resolve disputes, enter into payment agreements, accept payments, and reconnect service, or;
 - 8) when Commission offices are closed.
- D. The Company may not discontinue service until the Company investigates whether the dwelling is actually occupied. At a minimum, the investigation must include one visit by the Company to the dwelling during normal working hours. If no contact is made and there is reason to believe that the dwelling is occupied, the Company must attempt a second contact during non-business hours. If personal contact is made, the Company representative must provide notice required under Minnesota Statutes 216B.096 subdivision 4 and, if the Company representative is not authorized to enter into a payment agreement, the telephone number the Customer can call to establish a payment agreement.
- E. The Company must reconnect Company service if, following disconnection, the dwelling is found to be occupied and the Customer agrees to enter into a payment agreement or appeals to the commission because the Customer and the Company are unable to agree on a payment agreement.
64. **Disputes, Customer appeals.**
- A. The Company must provide the Customer and any designated third party with a Commission-approved written notice of the right to appeal:
 - 1) the Company determination that the Customer's household income is more than 50 percent of state median household income; or
 - 2) when the Company and Customer are unable to agree on the establishment or modification of a payment agreement.
 - B. A Customer's appeal must be filed with the Commission no later seven working days after the Customer's receipt of a personally served appeal notice, or within ten working days after the Company has deposited a first class mail appeal notice.
 - C. The Commission must determine all Customer appeals on an informal basis, within 20 working days of receipt of a Customer's written appeal. In making its determination, the Commission must consider one or more of the factors in Minnesota Statutes 216B.096 subdivision 6.

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D. Notwithstanding any other law, following an appeals decision adverse to the Customer, the Company may not disconnect Company heating service for seven working days after the Company has personally served a disconnection notice, or for ten working days after the Company has deposited a first class mail notice. The notice must contain, in easy-to-understand language, the date on or after which disconnection will occur, the reason for disconnection, and ways to avoid disconnection.

65. **Customers above 50 percent of state median income.** During the cold weather period, a Customer whose household income is above 50 percent of state median income:

- A. has the right to a payment agreement that takes into consideration the Customer's financial circumstances and any other extenuating circumstances of the household; and
- B. may not be disconnected and must be reconnected if the Customer makes timely payments under a payment agreement accepted by the Company.

SECTION XI – RESIDENTIAL CUSTOMER PROTECTIONS

66. **Applicability.** The provisions of this section apply to residential customers of the Company

67. **Budget billing plans.** The Company shall offer a Customer a budget billing plan for payment of charges for service, including adequate notice to Customer prior to changing budget payment amounts.

68. **Payment agreements.** The Company shall offer a payment agreement for the payment of arrears. Payment agreements must consider a Customer's financial circumstances and any extenuating circumstances of the household. No additional service deposit may be charged as a consideration to continue service to a Customer who has entered and is reasonably on time under an accepted payment agreement.

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69. **Undercharges.**

- A. In compliance with Minnesota Statutes 216B.098, the Company shall offer a payment agreement to Customers who have been undercharged if no culpable conduct by the Customer or resident of the Customer's household caused the undercharge. The agreement must cover a period equal to the time over which the undercharge occurred or a different time period that is mutually agreeable to the Customer and the Company, except that the duration of a payment agreement offered by the Company to a Customer whose household income is at or below 50 percent of state median household income must consider the financial circumstances of the Customer's household.
- B. No interest or delinquency fee may be charged as part of an undercharge agreement under this subdivision.
- C. If a Customer inquiry or complaint results in the Company's discovery of the undercharge, the Company may bill for the undercharges incurred after the date of the inquiry or complaint only if the Company began investigating the inquiry or complaint within a reasonable time after it was made.

70. **Medically necessary equipment.** The Company shall reconnect or continue service to a Customer's residence where a medical emergency exists or where medical equipment requiring electricity necessary to sustain life is in use, provided that the Company receives from a medical doctor written certification, or initial certification by telephone and written certification within five business days, that failure to reconnect or continue service will impair or threaten the health or safety of a resident of the Customer's household. The Customer must enter into a payment agreement.

71. **Commission authority.** In addition to any other authority, the Commission has the authority to resolve Customer complaints against the Company, whether or not the complaint involves a violation of this Chapter 216B of Minnesota Statutes. The Commission may delegate this authority to commission staff as it deems appropriate.

SECTION XII - MISCELLANEOUS REGULATIONS

72. **Conflicts:** In case of conflict between any provision of these approved Service Regulations, Customer's Service Agreement or a Rate Schedule, the provision of the Service Agreement takes precedence, followed by the provision of the Rate Schedule. The Customer's Service Agreement will identify all such conflicts with the service Regulations or Rate Schedule.

73. **Franchise Limitations:** All Service Agreements are subject to existing franchise limitations.

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74. **Franchise Fees Notification:** The Company will notify the Minnesota Public Utilities Commission of any new, renewed, expired, or changed fee, authorized by Minn. Stat. § 216B.36 to raise revenue, at least 60 days prior to its implementation. If the Company receives less than 60 days' notice of a repealed or reduced fee from a city, the Company will notify the Minnesota Public Utilities Commission within 10 business days of receiving notice. Notification to the Minnesota Public Utilities Commission will include a copy of the relevant franchise fee ordinance, or other operative document authorizing imposition of, or change in, the fee.

75. **Franchise Fees Customer Notification:** The following language will be included with the first customer bills on which a new or amended franchise fee is collected:

The City of _____ granted Minnesota Power a franchise to operate within the City limits. An electric franchise fee of (____% OF GROSS REVENUES or \$_____ PER METER or \$_____ PER KWH) will be imposed on customers effective MM/DD/YYYY. The line item appears on your bills as "_____Franchise Fee." Minnesota Power remits 100% of this fee to the City of _____.

76. **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 amendment and change by Company. Any such amendments or changes may be subject to acceptance or approval by any regulatory body having jurisdiction thereof.

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EXTENSION RULES

I. GENERAL

The following rules shall govern the extension of Company's electric transmission/distribution lines and service connections in all areas served by Company to all classes of retail Customers requiring Company's standard single or three phase electric transmission/distribution service.

The standard type of extension shall be the most feasible and economical as determined by the Company and shall be constructed in accordance with Company's Engineering Standards. When conditions require extensions from or connections to lines of voltages other than the standard voltage or where line construction other than Company's standard construction is required including alternate feeders, Company reserves the right to make adjustments to these rules for such non-standard extensions such that adequate revenues are provided to fund the extension cost.

Except when meter pedestals for underground service have been installed, all facilities installed by Company on either side of the point of delivery and not expressly sold and conveyed to Customers by written agreement shall at all times remain the sole property of Company, regardless of any Contributions in Aid of Construction paid by Customers. When meter pedestals have been installed by Company, Customer shall be responsible for installing and will remain the sole property owner of all facilities on Customer's side of the meter. In case of cancellation of Customer's service agreement for any cause, Company shall have the right to remove all facilities installed for serving Customer.

Service will be supplied in accordance with Company's schedules for the respective classes of service in the respective rate areas, Company's Electric Service Regulations and the provisions of these Extension Rules.

II. EXTENSION COST

The "Extension Cost" is the estimated cost of extending lines and the addition or relocation of facilities to serve new Customers or new loads. This shall be the total cost of extending the line, including all branch or lateral lines, but excluding the cost of transformer, meter and any system betterments. The Extension Cost shall include the customer's choice of either an overhead or underground service drop and projections of special condition costs anticipated.

III. EXTENSION COST CALCULATION

The Extension Cost shall be calculated by Company as follows:

1. All single phase line extensions of 1,000 feet or less shall be calculated using a unit cost of \$10.00 per foot. The unit cost of \$10.00 per foot may be adjusted for non-standard extensions or special conditions.

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If the Extension Cost exceeds the respective rate class service-extension allowance specified above and is for non-single phase service, Customer has the following options:

1. Pay Company in advance a Contribution for the Extension Cost in excess of the rate class service-extension allowance, or
2. No advance contribution for extension costs will be required, if the customer enters into a five year Electric Service Agreement where the Company's costs relating to the entire extension are equal to or less than three times the Customer's Guaranteed Annual Revenues (GAR), as defined below, or
3. If the Customer enters into a five-year Electric Service Agreement where the Company's costs relating to the entire extension are greater than three times the Customer's guaranteed annual revenues, the Customer will be required to pay the Company in advance a Contribution for the balance of the Extension Cost not supported by GAR.

The Guaranteed Annual Revenue (GAR) is the minimum annual amount of revenue from billings under the applicable rate schedule that a Customer who enters into an Electric Service Agreement (ESA) commits to pay to Minnesota Power to support extension costs for installing a three phase line extension.

To determine the required GAR, the Company estimates the costs of the service extension from which the revenue is derived. The service-extension job is estimated using the Compatible Unit Estimator (CUE). The cost estimate is divided by three according to the three-times-annual-revenue methodology. This is the annual amount the Customer will pay under the GAR agreement.

The GAR used in the ESA shall be estimated by the Company and determined under the existing rate schedule for providing service to the Customer.

Developers of Residential Housing Sites

A Developer of residential housing sites requiring electric service must make a Contribution equal to the Extension Cost, but excluding the cost of service drops. As customers are connected Developer is entitled to receive a refund for each customer connected of \$615 less the estimated cost of the service drop for that customer. However, in no event will the total refund exceed the Contribution. After Developer has received the maximum allowable refund or after the initial five years, whichever occurs first, customers requesting service to additional lots for which the extension was made shall make appropriate arrangements directly with Company in order to satisfy additional extension costs related to the respective service connections.

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VI. BASIS FOR MAKING EXTENSIONS FOR TEMPORARY SERVICE

“Temporary Service,” for purposes of these Extension Rules, is service to a Customer whose use of that service, in the Company’s judgment, may be of less than five years duration, or is service to a Customer who is unwilling to enter into an Electric Service Agreement having a minimum term of five years.

Customers expected to take service for less than one year duration shall be required to take such service in accordance with Company’s Temporary Service Rider to the applicable General Service Schedules.

Customers expected to take Temporary Service for more than one year but less than five years will be served under the Company’s standard rate schedules. Such customers with requirements of 500 kW or more shall enter into a contract for a minimum term of one year.

Prior to installation Temporary Service Customers shall pay a Contribution equal to the estimated cost of installation and removal, less salvage, of the facilities required to render Temporary Service. Where the actual cost is different from the estimated costs upon which the advance payment was based, as determined upon termination of Temporary Service, Company will refund any excess payment made by Customer or render a bill for any additional amounts due.

A connection to a permanent service for power used during construction is not considered to be Temporary Service under these rules.

VII. REAPPORTIONMENT AND REFUNDS

When the Extension Cost is \$30,000 or less and additional Customer(s) are connected to a line extension during the initial five year period of any Customer on the extension, the Extension Cost(s) of all previously connected Customer(s) on the extension will be reapportioned among all Customers served from the combined line extension, including the Customer(s) who are being added to the extension. The reapportionment shall be calculated such that each individual customer on the line extension shall be responsible for:

1. The cost of that portion of the extension which services only that individual Customer; plus
2. The cost of that portion of the line extension which that individual Customer shares with other Customers on the line extension divided by the total number of Customers who share such portion of the line extension.

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After reapportionment it will be determined whether the previously connected Customer(s) are entitled to a refund and/or reduction of Guaranteed Annual Revenue. If a refund is due, the amount to be refunded shall be the difference between the previous and reapportioned Extension Costs, provided that such refunds will not:

1. Exceed the actual Contribution paid by the respective Customer.
2. Be made to any Customer after the expiration of the initial five year period of that Customer.
3. Be made after Customer terminates service.

When a Customer who has paid a Contribution terminates service within the initial five year period and another Customer immediately commences taking service at the same premises, such Customer may transfer his right to future refunds, if any, to the new Customer, provided an agreement covering such transfer is executed by the Customers and accepted by the Company at the time the new Customer applies for service. If the Customer terminating service had entered into an Electric Service Agreement, such transfer of rights will be acceptable to the Company when the new Customer has entered into an Electric Service Agreement guaranteeing annual revenues equal to the amount specified in the current agreement.

Following the initial five year period of the most recently connected Customer(s) on the extension, any line extension necessary to serve additional Customers will be considered as a separate extension not affecting Customers connected previously.

Following the expiration of Customer's five year Electric Service Agreement, the annual revenue guarantee will be discontinued for purposes of supporting the line extension and Customer will continue to be served under the provisions of the applicable rate schedule.

When the Extension Cost is \$30,000 or less and the Customer has entered into an Electric Service Agreement and paid a Contribution, the Company will, at the end of the first two years of the Electric Service Agreement, determine the Customer's average annual revenue for the first two years and, if it differs from the minimum annual revenue which Customer elected to guarantee, the Company will, at the election of the Customer:

1. Refund to the Customer all or a portion of the Contribution but not to exceed an amount equal to the difference between the extension cost supported by the average annual revenue for the first two years and the extension cost supported by the minimum annual revenue the Customer elected to guarantee, and increase the minimum annual guarantee for the remaining years of the agreement to correspond with the new contribution, if any; or

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2. Collect an additional contribution from the Customer not to exceed an amount equal to the difference between the extension cost supported by the average revenue for the first two years and the extension cost supported by the minimum annual revenue the Customer elected to guarantee, and decrease the minimum annual guarantee for the remaining years of the agreement to correspond with the new contribution; or
3. Continue the minimum guaranteed annual revenues set forth in the existing Electric Service Agreement.

In no event will the increased minimum annual guarantee in 1 above be greater than the amount necessary to satisfy the Extension Cost. If there is a substantial change in Customer's annual revenues as compared to the guaranteed annual revenues, the Electric Service Agreement and Contribution, if applicable, may be re-examined and changed at the end of any year of the Electric Service Agreement.

VIII. SPECIAL CONDITIONS

Construction of an extension will commence when the following conditions have been met.

1. Agreements, when required, shall have been executed by each Customer and accepted by Company specifying initial contract period, guaranteed annual revenue, and any Contribution.
2. Each Customer has paid to Company his share of any Contribution.
3. Satisfactory right-of-way necessary for the construction, operation and maintenance of the extension (including any tree trimming rights) both for the purpose of providing access to the extension on Customers' premises and for continuing the extension to other Customers, has been furnished without expense to the Company.
4. Each Customer has made satisfactory credit arrangements with the Company. In the case of tenants, the Company may require owner to guarantee payment.
5. The extension cost will include excess installation costs incurred by the Company because of special conditions that impede the installation of distribution facilities. Such special conditions include, but are not limited to ground frost, surface or subsurface impediments and submarine installations. Surface or subsurface impediments may include, but are not limited to: rock, bedrock, sub-surface structures and wetlands.

Filing Date February 1, 2017 MPUC Docket No. E015/M-12-1359
Effective Date February 1, 2017 Order Date January 31, 2014

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

EXTENSION RULES

IX. BASIS FOR MAKING DISTRIBUTION EXTENSIONS FOR PERMANENT SERVICE WHERE EXTENSION COSTS EXCEED \$30,000

The above rules shall be applicable except where specifically stated otherwise and except that the Extension Cost will be the actual cost determined upon completion of the extension. The amount of Extension Costs relating to the extension which will be recovered by the Company through application of its rate schedule will be determined on an individual customer basis. Electric Service Agreements will be required and will be for sufficient duration and at sufficient revenue levels to support extension and other costs required to provide service.

If the Extension Cost exceeds the Extension Cost Credit as determined by the Company, the Customer(s) shall pay the Company a Contribution equal to the amount of the Extension Cost that exceeds the Extension Cost Credit. Where more than one Customer is served from the extension, the Contribution will be apportioned in the ratio of each Customer's Contract Demand to total Contract Demand for all Customers initially served from the extension. If there are circumstances unique to an extension in which application of the above rules would not be appropriate or would not properly recover costs, the Company will make necessary adjustments in the application of the rules such that adequate revenues are provided to fund Extension Costs through a combination of Extension Cost Credits and/or Contributions. Similarly, any refund which may be due, as a result of increased Customer Contract Demand during the initial ten year period, or as a result of additional Customers being served subsequently but during the initial ten year period, will be determined by the Company based upon all relevant dates such that revenue recovery is adequate to fund the Extension Costs through a combination of Extension Cost Credits and/or Contributions.

X. BASIS FOR MAKING TRANSMISSION EXTENSIONS FOR PERMANENT SERVICE

"Transmission" service for purposes of these Extension Rules is service to a Customer taken at 115 kV or higher. Customer connections involving loads served at transmission voltage will be considered on an individual customer basis. Electric Service Agreements will be required and will be of sufficient duration and at sufficient revenue levels to support extension and other costs required to provide service.

Filing Date February 1, 2017 MPUC Docket No. E015/M-12-1359
Effective Date February 1, 2017 Order Date January 31, 2014

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

BUDGET BILLING PLAN

Any all-year retail customer may apply for service to be billed in accordance with Company's Budget Billing Plan by completing Form No. 1326, "Budget Billing Service Request Form" or the applicable form available at <http://www.mnpower.com>. Billing under this plan shall commence upon acceptance of the application by Company. Company may require partial payment of arrears for those customers who wish to include a large arrears balance in a newly established budget billing plan.

The amount of the monthly budget billings shall be determined as follows:

1. Where sufficient billing history is available,
 - A. Company will determine Customer's average monthly billing during the preceding 12 months
 - B. The average monthly billing determined in Step A shall be adjusted for anticipated changes in rate level during the following 12 months.
 - C. An existing arrears or credit balance shall be divided by twelve and added to or deducted from the amount determined in Step B.
 - D. The amount of the monthly budget billing shall then be the amount determined in Step C rounded to the nearest dollar.
2. Where insufficient billing history is available, Company will determine Customer's connected load for use in estimating the first year's consumption upon which to base budget billings.

Customer's budget billings shall be reviewed and recalculated annually on the date following preparation of the twelfth billing under an existing budget billing plan. Company may also review Customer's account at times other than the normal review date and, where an unusually large arrears or credit balance exists, adjust the budget billing amount accordingly. Customer shall be notified of such adjustment made in the budget billing amount. When there is an unusually large credit balance, Customer may request a refund and/or reduction of budget billings.

Customer may discontinue budget billing at any time by notifying Company. Company may discontinue budget billing upon failure of the Customer to make timely payments of budget billings. Any credit balance remaining at the time of discontinuance in the Plan shall be carried forward unless Customer requests a refund. Any amount past due shall be treated under Company's normal notice and collection procedures.

Filing Date May 2, 2008 MPUC Docket No. E015/GR-08-415
Effective Date October 1, 2009 Order Date August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

REQUEST FOR BUDGET BILLING PLAN FORM

Form No. 1326 Rev. 10/78

MINNESOTA POWER
REQUEST FOR BUDGET BILLING PLAN

Name _____ Date _____

Address _____ Account No. _____

ESTIMATED COST OF ELECTRIC SERVICE FOR _____ MONTHS ENDING _____ 20 _____ \$ _____
(Based on rate schedules available at our office.)

AMOUNT OF MONTHLY BUDGET INSTALLMENT (to be shown in even dollars) \$ _____

This Budget Billing Plan is available to All Retail Customers. No guarantee of total cost is implied. It will remain in force until canceled by the customer, or may be canceled by the Company upon failure of the customer to make timely payments of installments. If such a cancellation is necessary, the account will then revert to our regular billing and collection practice.

This account will be reviewed annually in _____ by the Company for possible adjustments of installments. Any credit balance remaining will be carried forward unless the customer requests a refund. Any debit balance owing may be paid at this time or included in the newly revised budget amount.

(For Company)

(Customer's Signature)

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Marcia A. Podratz
Director - Rates

STANDARD CONTRACTS AND AGREEMENTS

Form 6174 5/07

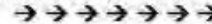


**MINNESOTA POWER
APPLICATION FOR RESIDENTIAL ELECTRIC SERVICE**

Please send completed form to 30 W Superior St. Duluth, MN 55802, fax to 218-720-2770, or apply online at www.mnpower.com

Last Name _____	First _____	Middle _____	Account # _____
Service Address _____			Date to Start Service _____
City _____	State _____	Zip _____	Own <input type="checkbox"/> Rent <input type="checkbox"/>
Mailing Address _____			Landlord Name _____
City _____	State _____	Zip _____	Landlord Phone # _____
Primary Phone # _____	Cell Phone # _____		Employer Phone # _____
Employer _____	Employer Phone # _____		Other ID _____
SSN _____	Driver's License # _____	State _____	City/State/Zip _____
Previous Address _____			City/State/Zip _____
Have you ever been a customer of Minnesota Power? Yes <input type="checkbox"/> No <input type="checkbox"/>			
If yes, prior service address _____			
Contact Person not living with applicant _____		Relationship _____	
Address _____		City/State/Zip _____	Phone # _____
Primary Signature _____		Email Address _____	
Spouse/Roommate: All adults receiving electric service at this premise are required to be listed on the account and will be held equally responsible for charges incurred.			
Last Name _____	First _____	Middle _____	Social Security # _____
Driver's License # _____	State _____		Cell Phone # _____
Employer _____	Employer Phone # _____		City/State/Zip _____
Previous Address _____	City/State/Zip _____		Relationship _____
Contact Person not living with applicant _____		Relationship _____	
Address _____		City/State/Zip _____	Phone # _____
Secondary Signature _____		Email Address _____	

Please notify Minnesota Power when you move. You are responsible for all electric bills through the date we are notified.



Adults/Roommates complete reverse side

Filing Date May 2, 2008 MPUC Docket No. E015/GR-08-415
Effective Date October 1, 2009 Order Date August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

STANDARD CONTRACTS AND AGREEMENTS

Form 351 Rev. 1/00

ELECTRIC SERVICE AGREEMENT

THIS AGREEMENT, made this _____ day of _____, between Minnesota Power, a Minnesota corporation, and _____, hereafter called Customer, in consideration for the covenants and promises made herein creates the obligation of Minnesota Power to furnish electric service and Customer to pay for said electric service in accordance with the following terms and conditions.

1. Electric service shall be furnished to Customer's premises located at _____
_____ in the County of _____ and State of Minnesota, described as follows:

2. Electric service shall be furnished at a point of delivery described as _____

3. Annual revenues paid to Minnesota Power by Customer inclusive of payments for electric service received, billed at the applicable rate schedule plus any adjustments shall not be less than _____ per year, for a period of not less than _____ years, commencing from the date Minnesota Power begins providing electric service or 90 days from the date of installation of said electric service, whichever occurs first. An annual billing will be rendered for any deficit to the above annual revenue guarantee.

4. An advance payment of _____ shall be made to cover that portion of Minnesota Power's investment not covered by the revenue guarantee.

5. This electric service shall be billed at the current applicable rate and class at the time the electric service is used or as approved by any regulating body having jurisdiction thereof.

6. Meter-Special Conditions: _____

7. The parties hereto mutually agree to abide by any and all applicable statutes, agency rules and Minnesota Power's Electric Service Regulations which are hereby incorporated by reference.

8. This Agreement is not assignable to any other party without the express written consent of Minnesota Power.

9. This Agreement shall be in full force and effect for the term above specified and each party shall be bound unless an express written release is executed by the party not requesting said release.

MINNESOTA POWER

CUSTOMER

By _____
Title _____

By _____
Title _____

Filing Date May 2, 2008 MPUC Docket No. E015/GR-08-415
Effective Date October 1, 2009 Order Date August 10, 2009

Approved by: Marcia A. Podratz
Marcia A. Podratz
Director - Rates

RESERVED FOR FUTURE USE

Filing Date _____ MPUC Docket No. _____

Effective Date _____ Order Date _____

Approved by: _____

COMMUNITY-BASED ENERGY DEVELOPMENT (C-BED)

TERRITORY

Applicable to Community-Based Energy Development (C-BED) projects located in the State of Minnesota.

APPLICATION

To any qualifying owner of a C-BED project who meets Company's Electric Service Regulations and any applicable Riders, technical standards and rules.

A C-BED project must be a new renewable energy project that utilizes an eligible energy technology, as defined in Minn. Stat. § 216B.1691, subd. 1(a). A C-BED project may either be a stand-alone project or part of a community energy partnership that allows Company participation as an owner, equity partner, or provider of technical or financial assistance:

(1) has no single qualifying owner owning more than 15 percent of a C-BED wind energy project unless: (i) the C-BED wind energy project consists of only one or two turbines; or (ii) the qualifying owner is a public entity listed under Minn. Stat. § 216B.1612, subd. 2(c)(5), that is not a municipal utility;

(2) demonstrates that at least 51 percent of the gross revenues from a power purchase agreement over the life of the C-BED project will flow to qualifying owners and other local entities;

(3) includes a qualifying owner, or any combination of qualifying owners, that may develop a joint venture project with a nonqualifying renewable energy project developer. However, the terms of this Schedule may only apply to the portion of the energy production of the total project that is directly proportional to the equity share of the C-BED project owned by the qualifying owners; and

(4) has a resolution of support adopted by the county board of each county in which the C-BED project is to be located, or in the case of a C-BED project located within the boundaries of a reservation, the tribal council for that reservation;

where a qualifying owner means:

(1) a Minnesota resident; (2) a limited liability company that is organized under Minn. Stat. Chapter 322B and that is made up of members who are Minnesota residents;

(3) a Minnesota nonprofit organization organized under Minn. Stat. Chapter 317A;

(4) a Minnesota cooperative association organized under Minn. Stat. Chapter 308A or 308B, including a rural electric cooperative association or a generation and transmission cooperative on behalf of and at the request of a member distribution utility;

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Director - Rates

COMMUNITY-BASED ENERGY DEVELOPMENT (C-BED)

- (5) a Minnesota political subdivision or local government including, but not limited to, a municipal electric utility, or a municipal power agency on behalf of and at the request of a member distribution utility, a county, statutory or home rule charter city, town, school district, or public or private higher education institution or any other local or regional governmental organization such as a board, commission, or association; or
- (6) a tribal council.

TYPE OF SERVICE

Output of the C-BED project shall be provided at 60 hertz and at the voltage and phase relationship as agreed to by Company and a qualifying owner.

RATE

A qualifying owner may sell all the energy produced by the C-BED project to Company or use a portion of the energy from the C-BED project and sell the remaining to Company. The following information provides guidelines for the negotiated power purchase agreements for service under this C-BED Schedule.

Company may purchase all or a portion of the energy made available by the qualifying owner from the C-BED project. A qualifying owner and Company shall negotiate the rate and power purchase agreement terms consistent with this Schedule. In the alternative, at the discretion of a qualifying owner, the qualifying owner and Company may negotiate a power purchase agreement with terms different from this Schedule. Company must receive Minnesota Public Utilities Commission approval of a power purchase agreement for a C-BED project. Nothing in this Schedule shall be construed to obligate Company to enter into a power purchase agreement.

The energy rate shall equal the net present value of the nominal payments to the C-BED project divided by the total expected energy production of the C-BED project over the 20-year life of the power purchase agreement with a rate higher in the first ten years of the power purchase agreement than in the last ten years. The receipt of the payment of this rate constitutes a transfer of the property rights of all renewable and other attributes/credits associated with the generation from the C-BED project to Company, unless otherwise agreed to by the qualifying owners of the C-BED project and Company.

Qualifying and nonqualifying owners shall provide sufficient security as determined by Company based on standard industry practice, risk-adjusted for the C-BED project, that considers such things as ownership arrangement, project accreditation, credit rating and experience of financing sources and project management and project development experience to secure performance under the power purchase agreement, and shall not transfer the C-BED project to a nonqualifying owner during the initial 20 years of the power purchase agreement.

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Director - Rates

COMMUNITY-BASED ENERGY DEVELOPMENT (C-BED)

A C-BED project that is operating under a power purchase agreement under this Schedule is not eligible for net energy billing under Minn. Stat. § 216B.164, subd. 3, or for production incentives under Minn. Stat. § 216C.41.

SERVICE CONDITIONS

1. A C-BED project must be: (1) safely integrated into and operated within Company's grid without causing any adverse or unsafe consequences; and (2) consistent with Company's resource needs as identified in Company's most recent resource plan submitted under Minn. Stat. § 216B.2422 and meet Company's cost and reliability requirements to fulfill some or all of the identified need at a minimal impact to customer rates.

2. All electricity delivered to Company by a qualifying owner shall be measured by one or more meters installed at a single point of common coupling or as determined by Company. The meter(s) for C-BED service shall measure the flow of capacity and energy from a qualifying owner to Company only. Any flow of capacity and energy from Company to a qualifying owner shall be separately metered.

3. Service shall be provided under this Schedule if Company has sufficient capacity available in existing transmission and distribution facilities to provide such service at the location where service is requested.

4. A qualifying owner shall pay Company the installed cost of any additional required facilities, including any required studies and testing which, at a minimum, demonstrate upfront the C-BED project's technical feasibility and resource adequacy.

5. Company shall not be liable for any loss or damage, including consequential damages, caused by or resulting from any limitation in providing service under this Schedule.

RATE, SERVICE, PROCESS AND TECHNICAL DOCUMENTS AVAILABILITY

Related Company rate, service, process and technical documents for distributed generation are available at:

http://www.mnpower.com/regulatory_matters/distributed_generation/

or by contacting Company at 218-722-2625 or 30 West Superior Street, Duluth, MN 55802.

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Marcia A. Podratz
Director - Rates

MISCELLANEOUS ELECTRIC REVENUE CHARGES TRANSFORMER RENTALS

The following schedule of charges are applicable to standard, single phase, 60 hertz transformers rented to Company's customers. In addition to the rental charge, customer shall pay all delivery, installation and dismantling costs.

Fixed Charge to be added to the first month's rental fee:

First Transformer:

Single Phase \$75.00
Three Phase \$90.00

Each additional transformer under the same rental agreement:

Single Phase \$15.00
Three Phase \$30.00

The table below contains monthly rental rates based on transformer prices as of January 1, 1981. These rates will be updated by the Rate Department when significant price changes occur.

Single Phase, 60 Hertz Transformers

LINE TRANSFORMERS

PADMOUNT TRANSFORMERS - SINGLE PHASE

Transformer Size KVA	HV 2.0 x 7.2 x 8 kV LV 120/240	HV 2400/4160Y HV 7200/120,470Y HV 7900/13,800Y	HV 13,200/22,900Y LV120/240	HV 19,900/34,500Y LV 120/240		HV 2400/4160Y HV 7200/12,470Y HV 7960/13,800Y	HV 13,200/22,900Y LV 120/240	HV10,900/34,500Y LV 120/240
	1 Bushing CSP or 2 Bushing Conventional	2 Bushing Conventional	2 Bushing Conventional	2 Bushing Conventional	125 kVBIL 150 kVBIL	2 Bushing Conventional	LV 120/240	LV 120/240
10	\$ 9.00	\$ 6.00	\$ 7.00	\$ 9.00	\$12.00	---	---	---
25	11.00	9.00	9.00	9.00	13.00	\$23.00	\$24.00	\$26.00
50	16.00	13.00	13.00	13.00	22.00	26.00	27.00	30.00
100	29.00	24.00	24.00	24.00	32.00	37.00	39.00	45.00
167	43.00	40.00	40.00	40.00	45.00	48.00	50.00	55.00
250	---	51.00	52.00	57.00	64.00	---	---	---
333	---	64.00	64.00	71.00	79.00	---	---	---
500	---	82.00	83.00	91.00	101.00	---	---	---

Three Phase, 60 Hertz Padmount Transformers

KVA	HV 13,800Y/7960 LV 480Y/277 LV 208Y/120	HV 23,000/13,200 LV 480/277 LV 208Y/120	HV 34,500Y/19,900 LV 480Y/277 LV 208Y/120
150	\$ 99	\$108	\$131
300	121	132	158
500	159	175	204
1,000	270	284	331
1,500	317	333	417
2,500	496	520	543

Minimum Charge - The Fixed Charge plus one month's Rental Charge.

Charges for additional months will be prorated when fractional month occurs.

Charges for Transformers other than those listed above, will be furnished by the Rate Department in each individual case.

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Effective Date October 1, 2009 Order Date August 10, 2009

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Marcia A. Podratz
 Director - Rates

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Document Upload Confirmation

Submission Information

Submission Number: 20115-63008
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Filer Information

Filer: Anderson, Christopher
Company: Minnesota Power
Email: canderson@allete.com
Phone Number: 218-723-3961

Document Information

Document Date: 05/27/2011
Document Type: Compliance Filing
On Behalf Of: Minnesota Power

Service List Information

Docket #	List Name
09-1151	contested case list

Existing Dockets Information

Related Industry	Year	Number
Energy	09	1151

Uploaded Documents Information

Selected Document	Classification	Additional Information
MPs Compliance Filing.pdf	Public	Minnesota Powers Compliance Filing Rate Book

Electronic Service

Last Name	First Name	Email	Company Name	Delivery Method	View Trade Secret
Anderson	Julia	Julia.Anderson@state.mn.us	Office of the Attorney General-DOC	Electronic Service	Yes
Anderson	Christopher	canderson@allete.com	Minnesota Power	Electronic Service	No
Brama	Elizabeth	ebrama@briggs.com	Briggs and Morgan	Electronic Service	No
Brusven	Christina	cbrusven@fredlaw.com	Fredrikson & Byron, P.A.	Electronic Service	No
Cochran	Jeanne	Jeanne.Cochran@state.mn.us	Office of the Attorney General-PUC	Electronic Service	No
Ferguson	Sharon	sharon.ferguson@state.mn.us	Department of Commerce	Electronic Service	Yes
Haar	Burl W.	burl.haar@state.mn.us	Public Utilities Commission	Electronic Service	Yes
Henriksen	Shane	shane.henriksen@enbridge.com	Enbridge Energy Company, Inc.	Electronic Service	No
Jensen	Linda S.	linda.s.jensen@state.mn.us	Office of the Attorney General-DOC	Electronic Service	Yes
Lindell	John	agorud.ecf@state.mn.us	Office of the Attorney General-RUD	Electronic Service	Yes
Scharff	Thomas	thomas.scharff@newpagecorp.com	New Page Corporation	Electronic Service	No
Sheehy	Kathleen D.	kathleen.sheehy@state.mn.us	Office of Administrative Hearings	Electronic Service	Yes
Spangler, Jr.	Ron	rlspangler@otpc.com	Otter Tail Power Company	Electronic Service	No
Swanson	Eric	eswanson@winthrop.com	Winthrop Weinstine	Electronic Service	No
Thompson	SaGonna	Regulatory.Records@xcelenergy.com	Xcel Energy	Electronic Service	No
Thornton	David	J.David.Thornton@state.mn.us	MN Pollution Control Agency	Electronic Service	No

[CSV](#) | [Excel](#) | [PDF](#)

Paper Service

Last Name	First Name	Company Name	Address	Delivery Method	View Trade Secret
Anderson	Gary	Stora Enso	Duluth Paper Mill, 100 N. Central Avenue, Duluth, MN - 55807	Paper Service	No
Bailey	Thomas	Briggs And Morgan	2200 IDS Center, 80 S 8th St, Minneapolis, MN - 55402	Paper Service	No
Baxendale	Richard	Boise Cascade Corporation	926 Harvard Avenue East, Seattle, WA - 98102	Paper Service	No
Berklich	John	Hibbing Taconite Company	PO Box 589, Hibbing, MN - 55746	Paper Service	No
Blazar	William A.	Minnesota Chamber Of Commerce	Suite 1500, 400 Robert Street North, St. Paul, MN - 55101	Paper Service	No
Boehm	David F.	Boehm, Kurtz & Lowry	Suite 1510, 36 East Seventh Street, Cincinnati, OH - 45202	Paper Service	No
Bond	Bill	ArcelorMittal USA - Minorca Mine Inc.	PO Box 1, 5950 Old Highway 53, Virginia, MN - 55792	Paper Service	No
Brekke	Jon	Great River Energy	12300 Elm Creek Boulevard, Maple Grove, MN - 553694718	Paper Service	No
Bruxvoort	Harlan	Cleveland Cliffs	1100 Superior Aveue, Cleveland, OH - 44114	Paper Service	No
Cashman	Nancy	The Salvation Army	P.O. Box 16052, Duluth, MN - 55816	Paper Service	No
Cerminaro	Ronald D.	United States Steel Corporation	600 Grant Street, Pittsburgh, PA - 152194776	Paper Service	No

Chandler	Greg	UPM Blandin Paper	115 SW First Street, Grand Rapids, MN - 55744	Paper Service	No
Coleman	Scott	Minnesota Ore Operations - U.S. Steel	P.O. Box 417, Mountain Iron, MN - 55768	Paper Service	No
Dahlen	Derick O.	Avant Energy Services	Suite 300, 200 South Sixth Street, Minneapolis, MN - 55402	Paper Service	No
Darland	Michael	Sappi Fine Paper North America	225 Franklin Street, Boston, MA - 2110	Paper Service	No
Garvey	Edward	N/A	32 Lawton Street, St. Paul, MN - 55102	Paper Service	No
Gasele	John R.	Fryberger Buchanan Smith & Frederick PA	700 Lonsdale Building, 302 West Superior Street, Duluth, MN - 55802	Paper Service	No
Giteck	Ronald M.	Office of the Attorney General-RUD	Residential Utilities Division, 445 Minnesota Street, 900 BRM Tower, St. Paul, MN - 55101	Paper Service	No
Goodpaster	Elizabeth	MN Center for Environmental Advocacy	Suite 206, 26 East Exchange Street, St. Paul, MN - 551011667	Paper Service	No
Greenman	Christopher	Excelsior Energy	10900 Wayzata Boulevard - Suite 200, Minnetonka, MN - 55305	Paper Service	No
Hanson	Samuel	Briggs And Morgan, P.A.	2200 IDS CenterE, 80 South Eighth Street, Minneapolis, MN - 55402	Paper Service	No
Harper	Susan	City of Cohasset	305 Northwest 1st Avenue, Cohasset, MN - 55721	Paper Service	No
Henkel	Annete	Minnesota Utility Investors	413 Wacouta Street, #230, St.Paul, MN - 55101	Paper Service	No
Hiltunen	Dana	AEOA	702 S. 3rd Avenue, Virginia, MN - 55792	Paper Service	No
Kearns	Cesia	Sierra Club	2327 Franklin Avenue, #1, Minneapolis, MN - 55406	Paper Service	No
Knapp	John A.	Winthrop & Weinstine	Suite 3500, 225 South Sixth Street, Minneapolis, MN - 554024629	Paper Service	No
Kohanski	Gerald P.	Cleveland-Cliffs Inc.	Suite 1500, 1100 Superior Avenue, Cleveland, OH - 441142518	Paper Service	No
Koski	Irene	Itasca County	123 NE Fourth Street, Grand Rapids, MN - 557442600	Paper Service	No
Lange	Nancy	Izaak Walton League of America	Suite 202, 1619 Dayton Avenue, St. Paul, MN - 55104	Paper Service	No
Larson	James D.	Avant Energy Services	200 S 6th St Ste 300, Minneapolis, MN - 55402	Paper Service	No
Lee	Robert S	Mackall Crouse & Moore Law Offices	1400 AT&T Tower, 901 Marquette Ave, Minneapolis, MN - 554022859	Paper Service	No
Lofgren	Jay	Boise, Inc.	Paper Division, 400 - 2nd Street, International Falls, MN - 56649	Paper Service	No
Lund	David	Legal Aid of Minnesota	302 Ordean Building, 424 W. Superior Street, Duluth, MN - 55802	Paper Service	No
Manchester	Sarah	Sappi Fine Paper North America	225 Franklin Street, Boston, MA - 2110	Paper Service	No
Marshall	Pam	Energy CENTS Coalition	823 7th St E, St. Paul, MN - 55106	Paper Service	No
Matzdorf	Keith	Sappi Fine Paper North America	PO Box 511, 2201 Avenue B, Cloquet, MN - 55720	Paper Service	No
McMillan	David	Minnesota Power	30 W. Superior Street, Duluth, MN - 55802	Paper Service	No
Miller	Angie	Community Action Duluth	19 N. 21 Avenue West, Duluth, MN - 55806	Paper Service	No
Moratzka	Andrew	Mackall, Crouse and Moore	1400 AT&T Tower, 901 Marquette Ave, Minneapolis, MN - 55402	Paper Service	No
Morgan	Richard L.	Sappi Fine Paper North America	P.O. Box 511, 2201 Avenue B, Cloquet, MN - 55720	Paper Service	No
Oppitz	Christopher J.	-	110 1/2 1ST ST E, Park Rapids, MN - 56470-1695	Paper Service	No
Peterson	Catherine	Duluth Community Action Program, Inc.	19 N. 21 Avenue West, Duluth, MN - 55805	Paper Service	No
Podratz	Marcia	Minnesota Power	30 W Superior S, Duluth, MN - 55802	Paper Service	No
Robinson	Buddy	Minnesota Citizens Federation NE	2110 W. 1st Street, Duluth, MN - 55806	Paper Service	No
Schmidt	William	USG Interiors, Inc.	35 Arch Street, Cloquet, MN - 55720	Paper Service	No
Schulte	Robert H.	Schulte Associates LLC	15347 Boulder Pointe Road, Eden Prairie, MN - 55347	Paper Service	No
Scipioni	Joe	PolyMet Mining, Inc.	P.O. Box 475, County Highway 666, Hoyt Lakes, MN - 55750	Paper Service	No
Shaddix Eiling	Janet	Shaddix And Associates	Ste 122, 9100 W Bloomington Frwy, Bloomington, MN - 55431	Paper Service	No
Smolich	Jeremy	Keetac	PO Box 217, Keewatin, MN - 55753	Paper Service	No
Waldoch	Laurance R.	Lindquist & Vennum	4200 IDS Center, 80 South 8th Street, Minneapolis, MN - 554022274	Paper Service	No
Walli	Kevin	Fryberger, Buchanan, Smith & Frederick	1st National Bank Building, 332 Minnesota Street, Suite W1260, St. Paul, MN - 55101	Paper Service	No
Williams	Dan	Lutheran Social Services	600 Ordean Building, 424 W. Superior Street, Duluth, MN - 55802	Paper Service	No

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