

PARALLEL GENERATION - NET ENERGY BILLING SERVICE

Effective In All territories served by the Company.

Availability Available to any retail electric customer with generation of 20 kW or less for purpose of operating generation interconnected with Company's system, where customer's delivery offsets retail electric consumption at the same site. If a customer has more than one electric generator, the generators' ratings shall be summed and the sum may not exceed 20 kW.

Net Energy Billing The retail electric customer may offset electricity usage at the same site each month on a net energy basis. Customer will receive credit for energy delivered each month in excess of the amount used that month. The credit will be given at the prevailing retail rate and applied to the customer's account for retail service at the same site. For non-time-of-day customers, the existing meter used for retail electric service will normally serve to determine net energy usage and no additional charges are required. For time-of-day customers, a separate meter is required for net energy billing and customer must compensate Company for a second meter over a two-year period.

Rate

Customers with Non-Time-of-Day service

Customer charge per month	No monthly charge
Energy credit per kWh	At existing retail rate

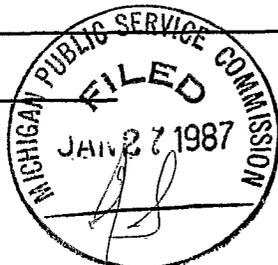
Customers with Time-of-Day service

Customer charge per month	\$1.00/mo. and \$585 plus financing charges over two years
Energy credit per kWh	At existing retail rate

Terms and Conditions of Service See Sheet Number 172.

ISSUED January 1, 1987

BY: E. M. THEISEN
PRESIDENT
EAU CLAIRE, WISCONSIN



EFFECTIVE FOR SERVICE RENDERED ON
AND AFTER January 1, 1987

ISSUED UNDER AUTHORITY OF THE MICHIGAN
PUBLIC SER. COMM. DATED November 4, 1986

IN CASE NO. U-8493

PARALLEL GENERATION - TERMS AND CONDITIONS OF SERVICE

Terms and Conditions of Service

1. The Company shall install appropriate metering facilities to record all flows of energy necessary to bill in accordance with the charges and credits of this rate schedule.
2. The customer shall furnish, install and wire the necessary service entrance equipment, meter sockets, meter enclosure cabinets, or meter connection cabinets that may be required by the Company to properly meter usage and sales to the Company.
3. Company shall install the necessary facilities and equipment to accommodate customer's generation output associated with this service. At the customer's option, either the Company or customer will bear the installation cost. However, if installation is made at Company's expense, customer must reimburse the Company the full installed cost, including any financing costs, over a period not to exceed two years.
4. To interconnect, customer's generation must be installed, connected and operated in compliance with existing codes and Company's General Rules for Parallel Generation.
5. Customer must maintain and provide certification either of financial responsibility or a minimum of \$100,000 liability insurance covering the operation of customer's generation equipment and its output.

Rate Code

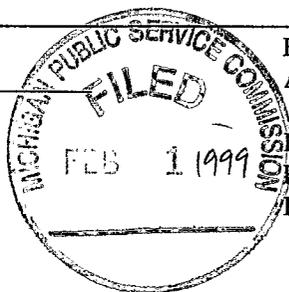
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ISSUED January 19, 1999

EFFECTIVE FOR SERVICE RENDERED ON
AND AFTER January 7, 1999

BY: J. L. LARSEN
PRESIDENT
EAU CLAIRE, WISCONSIN



ISSUED UNDER AUTHORITY OF THE MICHIGAN
PUBLIC SER. COMM. DATED January 6, 1999
IN CASE NO. U-11777

PARALLEL GENERATION SERVICE - GENERAL RULES

General Rules for Parallel Generation

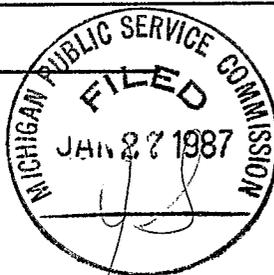
The following rules shall apply to all customer-owned generation facilities that are interconnected with the Company's power supply system. The extent to which a customer's facilities may be required to comply with these rules may vary from installation to installation due to the type, location, and size of the generating facility to be installed.

1. Interconnection of a customer-owned electric generating installation with the Company's power system shall not be permitted until proper application has been made to and approval received from the Company. The Company may withhold approval only for good reason, such as failure to comply with applicable utility engineering and design limitations, or governmental codes, rules or laws. The Company's approval of the proposed or installed customer-owned generation system does not relieve the customer of the obligation to obtain all required permits, building and zoning variations, and applicable inspections.
2. The Company shall require the customer to execute a contract which will specify reasonable technical connection and operating requirements for the customer's generating facility. Interconnection shall not be permitted until such a contract has been executed and the Company has inspected the installation. The customer shall notify the Company at least two months prior to commencement of operation of its generating facility.
3. The Company shall notify the appropriate telephone utility and cable television firm when a customer-owned electric generating facility is to be interconnected with the Company's system.
4. The Company may require a separate distribution transformer(s) for a customer owning an electric generating facility. The customer shall be responsible for all costs associated with providing the separate transformer(s). Ordinarily, a customer utilizing an induction-type generator with a capacity of 5 kW or less, or other generating units of 10 kW or less that utilize line-commutated inverters, will not be required to satisfy this requirement.

(Continued on Sheet No. 174)

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BY: E. M. THEISEN
PRESIDENT
EAU CLAIRE, WISCONSIN

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PARALLEL GENERATION SERVICE - GENERAL RULES
(Continued from Sheet No. 173)

5. Where necessary, to protect against a customer-owned generating facility causing problems with service to other customers, the Company shall limit the capacity and operating characteristics of single-phase generators in a manner consistent with its existing limitation for single-phase motors. Ordinarily, single-phase generators should be limited to a capacity of 10 kW or less.
6. The customer-owned electric generation facility shall have a protective system for automatically isolating the generator from the Company's system under the following conditions:
 - a. de-energized Company system
 - b. sustained line faults on Company system
 - c. faults on customer's system

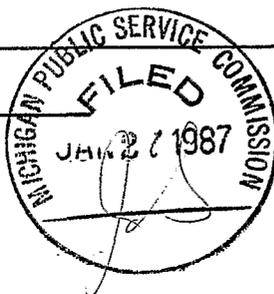
For synchronous and induction generators, such a protective system shall consist of proper over-current protection, fuse or circuit breaker, plus a voltage or frequency controlled contactor which would automatically disconnect the unit whenever its output voltage or frequency drifted outside predetermined limits. Other suitable protective systems against abnormal voltages or frequencies may be accepted by the Company. Schematic diagrams and a listing of the equipment intended to provide this protection or isolation may be requested by the Company and shall be supplied by the customer.

7. The customer shall provide and install a NEMA-approved manual safety disconnect switch of adequate ampacity between each of its generators and the Company's system. The switch shall not open the neutral when the switch is open and shall have provisions for being padlocked in the open position with a standard Company padlock. For installations interconnected at greater than 600 volts, a fused cutout or switch may be substituted where practicable. The switch(es) shall be accessible at all times to Company personnel for the purpose of isolating the generating facility from the Company's system when deemed necessary for safety and operating reasons and for any of the following reasons:
 - a. To facilitate maintenance or repair of the Company's facilities;
 - b. During system emergencies;
 - c. At such times as the customer's generating facility is operating in a hazardous manner, or is operating such that it adversely affects service to other customers or to nearby communication systems or circuits.

(Continued on Sheet No. 175)

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PARALLEL GENERATION SERVICE - GENERAL RULES
(Continued from Sheet No. 174)

8. The customer shall be required to make its equipment available and permit entry upon the property by the Company, cable television, and telephone utility personnel at reasonable times for the purposes of testing isolation and protective equipment, evaluating the quality of power delivered to the Company's system, and testing to determine whether the local generating facility is the source of any electrical service or communication system's problems. Such testing and evaluation shall not relieve the customer's obligation to maintain his facilities in satisfactory operating condition.
9. The power output of the customer's generating facility shall be maintained such that the frequency and voltage are compatible with normal Company service. If these conditions are not met, customer shall discontinue operation immediately.
10. The customer's generating facility shall be operated so that variations from acceptable voltage levels and other service impairing disturbances do not result in adverse effects on the service on equipment of other customers, and in a manner which does not produce undesirable levels of harmonics in the Company's power supply or control circuitry.
11. The customer shall be responsible for providing protection for its installed equipment and for adhering to all applicable national, state and local codes. In certain circumstances, where the design and configuration of certain generating equipment (such as that utilizing line-commutated inverters) make it appropriate, the Company may require the customer to install an isolation transformer as part of the generating installation for safety and for protection of the generating facilities.
12. Unless otherwise agreed to by the Company, customers with facilities of 21 kW of capacity or more shall provide the capacitive reactance required by their generating and conversion equipment to maintain an average Power Factor of 90% or greater, or shall compensate the Company for the necessary corrective equipment installed by the Company.
13. Customer shall locate and install towers and other equipment necessary for the operation of its generation facilities so as not to cause a hazard to the Company's distribution system, and to comply with all applicable national, state and local codes or ordinances.

(Continued on Sheet No. 176)

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PARALLEL GENERATION SERVICE - GENERAL RULES
(Continued from Sheet No. 175)

- 14. Customer shall effectively ground and provide and install adequate surge arrestor protection on his generation installation to prevent lightning damage to any Company distribution system equipment.
- 15. Customer shall maintain its generating facility in accordance with sound utility practices. If requested by the Company, the customer shall submit for Company approval a maintenance schedule prior to October 1 of each year, for the future calendar year.
- 16. The customer shall reimburse the Company in advance of construction for the addition, modification, or replacement of distribution system components made necessary by customer's generator installation.
- 17. Each party shall indemnify, protect, defend, and save harmless the other party from and against any and all claims and demands, including claims and demands of third parties, for damages remote as well as proximate to property, and injury or death to persons, including payments made under any worker's compensation law or under any plan for employees' disability and death benefits caused by or resulting from the negligent acts or omissions of the indemnifying party, its employees, agents, contractors, or sub-contractors during the erection, maintenance, operation or removal of the generator or the associated facilities and equipment.

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