

**Madison Gas and Electric Company**

# **Electric Rules and Regulations**

## **Electric Volume 2**

These sheets are designated as Electric Volume 2 and supersede and cancel sheets E60 through E150 issued previously as Electric Volume 1.

When a sheet is revised, the nature of the revision is noted in the right margin as follows:

R = Revision

D = Deletion

N = New or Added Provision



**MADISON GAS AND ELECTRIC COMPANY**

Amendment No. 315

**ELECTRIC VOLUME 2**

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Effective in: All territory served.

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**MADISON GAS AND ELECTRIC COMPANY**

Amendment No. 315

**ELECTRIC VOLUME 2**

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: All territory served.	
<p><b>INFORMATION AVAILABLE TO CUSTOMERS</b></p> <p>See Wis. Admin. Code § PSC 113.0501.</p> <p><b>APPLICATION FOR SERVICE</b></p> <p>Application for electrical service will be made at the Company's General Office or at such other locations as may from time to time be authorized by the Company. Application will be accepted in person, by telephone, by e-mail, through the Company's Web site (www.mge.com), or by signed application at Company discretion. Service connections and extensions will be made in accordance with filed rules and regulations.</p> <p><b>RESPONSIBILITY FOR USE OF SERVICE</b></p> <ol style="list-style-type: none"> <li>1. Receipt of service will make the receiver a customer of the Company, subject to its rates, rules, and regulations, whether service is based on contract, signed application, or otherwise.</li> <li>2. Subject to its rates, rules, and regulations, the Company will continue to supply service until ordered to discontinue, and the customer will be responsible for payment for all service furnished until discontinued.</li> <li>3. New occupants of premises previously receiving service must make official application to the Company before commencing the use of service.</li> <li>4. Customers who have been receiving service must notify the Company when discontinuing service; otherwise, they will be liable for the use of the service by their successors should said successors refuse to pay.</li> <li>5. Customers assume all responsibility on their side of the point of delivery for the service supplied or taken, as well as for the service installation, appliances and apparatus used in connection therewith, and will save the 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 their side of the point of delivery unless such injury or damage is caused by the negligence of the Company.</li> </ol>	
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<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: All territory served.	
<p><b>DIVERSION OF SERVICE</b></p> <ol style="list-style-type: none"> <li>1. When the Company has sufficient evidence that a customer is obtaining an electrical service in whole or in part by means of devices or methods which stop or interfere with the proper metering of the electrical service being delivered to the premises or otherwise results in unmetered electrical service being delivered to the premises, the customer will be subject to disconnection under Company rules and regulations on Disconnection of Service.</li> <li>2. Except as limited by law, when such diversion has been discovered by the Company, the customer will be subject to the following: <ol style="list-style-type: none"> <li>a. The customer will be required to pay the Company for the estimated losses of revenue occasioned by the diversion for the period that customer has been responsible for paying for electrical service. The Company may, however, waive billing the customer when the projected costs of billing and recovery exceed the amount likely to be recovered.</li> <li>b. The customer will be required to pay the Company for any and all damages to the Company's equipment due to such diversion.</li> <li>c. The customer will be required to pay the Company for any and all costs incurred by the Company in investigating and correcting the diversion.</li> <li>d. The customer will be required to pay for any reconnection charges arising out of the diversion.</li> <li>e. The customer will be required to pay for the cost of making the installation tamperproof.</li> <li>f. The Company will bill the customer for the unmetered service, the cost of correcting the problem or damage, the reconnection charges, the cost of making the installation tamperproof, and the cost of investigation. Payment may be due within 24 hours of billing or the customer may be subject to a ten day's notice of disconnection.</li> <li>g. In the event any tamperproof installation so installed will be the subject of further damage or interference by the customer or customer's permittee, the Company will have the right to terminate service without further notice.</li> </ol> </li> </ol>	
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Effective in: All territory served.

**DISCONTINUANCE OF SERVICE**

Notice by customers of discontinuance of service will be accepted at the Company's General Office or at other such locations as may from time to time be authorized by the Company. Such notice may be made in person, by telephone, by e-mail, through the Company's Web site (www.mge.com), or in writing.

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**PREFERRED SERVICE CHARGES**

When application is made for electrical service with the request that meters be set or read on or after regular working hours or within the same half working day, a charge per meter will be made. (See Sheet No. E54 for charges.)

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**MADISON GAS AND ELECTRIC COMPANY****ELECTRIC VOLUME 2**

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: All territory served.	
<p><b>DEPOSIT RULE</b></p> <p><b>Considerations for deposit</b></p> <ul style="list-style-type: none"> <li>• For new residential service, see Wis. Admin. Code § PSC 113.0402(1)(a)(b)(c).</li> <li>• For existing residential service, see Wis. Admin. Code § PSC 113.0402(4)(a)(b)(c).</li> <li>• For new commercial service, see Wis. Admin. Code § PSC 113.0403(1)(2)(a)(b)(c)(d)(e).</li> <li>• For existing commercial service, see Wis. Admin. Code § PSC 113.0403(5)(a)(b).</li> </ul> <p><b>Amount of deposit</b></p> <ul style="list-style-type: none"> <li>• For new and existing residential service, see Wis. Admin. Code § PSC 113.0402(7)(a)(b)(c).</li> <li>• For new and existing commercial service, see Wis. Admin. Code § PSC 113.0403(8)(a)(b)(c).</li> </ul> <p><b>Deposit interest</b></p> <ul style="list-style-type: none"> <li>• For new and existing residential service, see Wis. Admin. Code § PSC 113.0402(9)(a)(b)(c).</li> <li>• For new and existing commercial service, see Wis. Admin. Code § PSC 113.0403(9)(a)(b)(c).</li> </ul> <p><b>Refund of deposit</b></p> <ul style="list-style-type: none"> <li>• Time of refund <ul style="list-style-type: none"> <li>Payment is considered prompt if made prior to notice of disconnection for nonpayment not in dispute.</li> <li>- For residential service, see Wis. Admin. Code § PSC 113.0402(10)(11).</li> <li>- For commercial service, see Wis. Admin. Code § PSC 113.0403(10).</li> </ul> </li> <li>• Refund at termination of service <ul style="list-style-type: none"> <li>- For residential service, see Wis. Admin. Code § PSC 113.0402(13).</li> <li>- For commercial service, see Wis. Admin. Code § PSC 113.0403(12).</li> </ul> </li> <li>• Apply deposit to arrearage <ul style="list-style-type: none"> <li>- For residential service, see Wis. Admin. Code § PSC 113.0402(14)(a)(b)(c).</li> <li>- For commercial service, see Wis. Admin. Code § PSC 113.0403(13)(a)(b)(c).</li> </ul> </li> <li>• Method of refund <ul style="list-style-type: none"> <li>- For residential service, see Wis. Admin. Code § PSC 113.0402(12).</li> <li>- For commercial service, see Wis. Admin. Code § PSC 113.0403(11).</li> </ul> </li> </ul>	
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## MADISON GAS AND ELECTRIC COMPANY

Amendment No. 315

## ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: All territory served.	
<p><b>DEPOSIT RULE (continued)</b></p> <p><b>Written explanation</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0402(5).</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0403(6)(a)(b).</li> </ul> <p><b>Refusal or disconnection of service</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0402(8).</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0403(7).</li> </ul> <p><b>Review</b></p> <p>For residential service only, see Wis. Admin. Code § PSC 113.0402(11).</p> <p><b>Applicability</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0402(15).</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0403(14).</li> </ul> <p><b>GUARANTEE</b></p> <p><b>Terms and conditions</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0402(3)(a)(b)(c).</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0403(4)(a)(b)(c).</li> </ul> <p><b>Payment terms</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0402(2).</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0403(3).</li> </ul> <p><b>Applicability</b></p> <p>The rules as described in Deposit Rule, Guarantee Rule, and Deferred Payment Agreement are not applicable to deposits or guarantees made in connection with financing extensions or other equipment.</p>	
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<p><b>DISCONNECTION OF SERVICE</b></p> <ul style="list-style-type: none"> <li>• For residential service, see Wis. Admin. Code § PSC 113.0301, 113.0304, and 113.0305.</li> <li>• For commercial service, see Wis. Admin. Code § PSC 113.0302.</li> </ul> <p><b>RECONNECTION OF SERVICE</b></p> <p>See Wis. Admin. Code § PSC 113.0303.</p> <p><b>RECONNECTION CHARGES</b></p> <p>See Sheet No. E54 for charges.</p> <p><b>Application</b></p> <ul style="list-style-type: none"> <li>• For reconnection of electrical service following disconnection for nonpayment of a required deposit or bills for electrical service.</li> <li>• For reconnection of an electric meter for the same customer on the same premises within one year when disconnection was for reasons other than nonpayment.</li> <li>• A reconnection charge may be applied to utility accounts of disconnected customers who reconnect their own service and the Company must disconnect the customer again.</li> </ul> <p><b>DEFERRED PAYMENT AGREEMENT</b></p> <p>See Wis. Admin. Code § PSC 113.0404.</p> <p><b>DISPUTE PROCEDURES</b></p> <p>See Wis. Admin. Code § PSC 113.0407.</p> <p><b>CUSTOMER COMPLAINTS</b></p> <p>See Wis. Admin. Code § PSC 113.0610.</p>	
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<p><b>APPLICATION OF RATES</b></p> <ol style="list-style-type: none"> <li>1. The schedule of rates apply where electricity is furnished in any one month to one customer at one location for one class of service through one meter. The schedule of rates is based on delivering and billing service to the ultimate user for retail service only and does not permit resale or redistribution.</li> <li>2. Where a single large commercial, industrial, or institutional customer occupies more than one unit of space in the conduct of the same business, each separate unit will be metered separately and considered a distinct customer, unless the customer makes the necessary provisions for circuits approved by the Company to permit the metering of all the energy and coincidental demands for each class of service in the various units at a single metering location. This rule will apply only where the units are located on contiguous property with no intervening public property or private property controlled by others.</li> <li>3. In those cases where, at the Company's election, two or more meters are installed at a single metering location on the same premises for the same customer for the same class of service, the amount of electricity (kW and kWh) supplied for the same class of service through all such meters will be combined in arriving at the total charge, and the minimum bill will be the same as though one meter was installed.</li> <li>4. A "month" does not refer to a calendar month but will mean the period between any two consecutive scheduled readings of the meters by the Company.</li> <li>5. When the Company is unable to obtain the reading of the meter or meters after reasonable effort, the fact will be plainly indicated on the monthly bill and the minimum charge assessed, or an estimate made and so indicated on the bill.</li> <li>6. Claims of errors should be made immediately upon receipt of bill.</li> </ol>	
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Amendment No. 315

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<p><b>METER READINGS AND BILLING PERIODS</b></p> <p>See Wis. Admin. Code § PSC 113.0405.</p> <p><b>BILLING</b></p> <p>See Wis. Admin. Code § PSC 113.0406.</p> <p>In addition, where rental residential dwelling electrical service is in the tenant's name, and the tenant vacates the residential dwelling unit, continued electrical service for such dwelling unit will be placed in the name of the owner or property manager when the Company has no information concerning a new tenant to start service.</p> <p>The Company will provide the owner or property manager with written notice of its intent to transfer billing responsibility. Such notice will provide the owner or property manager with 15 days to notify the Company of:</p> <ol style="list-style-type: none"> <li>1. The name of the customer who should be placed in service, such service date not to be later than 15 days from the notice mailing date; or</li> <li>2. That electrical service to the premises should be terminated. The owner or property manager must affirm to the Company that such termination will not endanger human health or life or cause damage to property during the period of disconnection.</li> </ol> <p><b>PAYMENTS</b></p> <p>Failure to receive a bill does not relieve the customer of the obligation to make payment by the due date.</p> <p>Customers who fail to make payment by the due date are also subject to the application of the procedures provided in the Company's filed rules covering disconnection of electrical service. Payment to a third party, other than to an authorized pay station, does not constitute payment to the Company. MGE will not be responsible for disputes regarding payments to third parties which are not authorized pay stations.</p> <p>When a payment made to the Company and credited to a customer's account is reversed for insufficient funds, a charge plus applicable late payment charges will be applied to the customer's account. (See Sheet No. E54 for the charge.)</p>	
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Effective in: All territory served.

**LATE PAYMENT CHARGE**

See Wis. Admin. Code § PSC 113.0406(1)(g)(i).

**BUDGET PAYMENT PLAN**

See Wis. Admin. Code § PSC 113.0406(5).

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Effective in: All territory served.

**METER INSTALLATION AND SEALING OF METERS**

1. Per PSC 113.0809, electric meters are furnished by the Company and set without charge; however, electric permits are required by the authorized inspector in the area. Affidavits are permissible for state, county, and municipal applications, as allowed by such authorities, or in those areas where inspectors are not assigned.
2. Per PSC 113.0808, meters are sealed by the Company, and such seals will not be broken or tampered with without the consent of the Company except in cases of emergency. The Company should be notified within 48 hours after the seal has been broken.

**METER TESTS**

All meter tests, records, and billing adjustments for meters with errors greater than prescribed limits are made in accordance with rules and regulations governing electrical service by public utilities prescribed by the Commission (PSC 113.0901-0926).

**BILLING DEAD METERS AND METERS SHOWING UNDER-REGISTRATION**

See Wis. Admin. Code § PSC 113.0924.

**REFUNDS FOR FAST METERS**

See Wis. Admin. Code § PSC 113.0924.

**ACCESS TO CUSTOMERS' PREMISES**

Authorized agents of the Company will have access to customers' premises at all reasonable times for the purpose of reading meters, making repairs, making inspections, making investigations, removing Company property, or for any other purpose incident to providing service. Refusal or failure to provide authorized personnel access to Company equipment may result in disconnection of service. See Wis. Admin. Code § PSC 113.0301(1m)(k) and 113.0302(2)(h).

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**BILLING FOR GROUNDS**

1. Subject to the Company's rules setting forth the method of determining a reduced rate herein authorized, if an accidental ground is found on a customer's wiring or equipment, the Company will estimate the kilowatt-hours lost and bill for them at a reduced rate not less than the generated or purchase cost of the energy, but no such adjustment will be made for energy supplied after the customer has been notified and has had an opportunity to correct the condition. Any demand (kilowatt) caused by an accidental ground will be billed at a rate lower than that filed for the class of service involved. The Company will notify the customer of the ground whenever it is found or suspected.
2. The Company assumes no responsibility for injuries, damages, or losses resulting from grounds in customers' installations and has the right to disconnect a customer who fails to eliminate a ground after reasonable notice. The Company will conduct tests to ascertain the existence of a ground but will not investigate or test a customer's installation for the purpose of determining the location or the nature of such defects.

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Effective in: All territory served.	
<p><b>POWER FACTOR CORRECTION RULE</b></p> <ol style="list-style-type: none"> <li>1. When fluorescent, neon, zeon, or other hot or cold cathode types of gaseous tube lighting having similar power factor characteristics are installed and are used for illumination or decorative purposes as a major lighting source, the customer will furnish, install, and maintain, at their own expense, corrective apparatus designed to maintain, at not less than 90 percent lagging, the power factor of each unit of such equipment or groups of such equipment controlled as a unit by a single switch or its equivalent which controls only such unit.</li> <li>2. When fluorescent, neon, zeon, or other hot or cold cathode types of gaseous tube lighting having similar power factor characteristics are installed and are used for advertising purposes, the customer will furnish, install, and maintain, at their own expense, equipment designed to correct the power factor of the unit to at least 85 percent lagging except that no correction will be required for any complete sign supplied from a single auxiliary transformer rated at 225-volt amperes or less.</li> <li>3. The determination of power factor will be made by the wattmeter-voltmeter-ammeter method.</li> <li>4. To be considered advertising, the tubing must contain a message showing either a configuration of letters, numerals, characters, or distinctive trademarks.</li> <li>5. The Company may refuse or discontinue service to any such installation made after September 2, 1941, until the customer has complied with the provisions of this rule.</li> </ol> <p><b>CUSTOMER'S RESPONSIBILITY FOR COMPANY'S EQUIPMENT</b></p> <p>The customer will be responsible for all damage to the Company's equipment caused by the customer or their permittees, including compensation for consumed energy not recorded on the meter.</p>	
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<p><b>CUSTOMER-OWNED GENERATING EQUIPMENT</b></p> <p>The Company will file with the Commission service rules to ensure interconnected customer-owned generation facilities are installed in a manner consistent with public and employee safety, provide adequate service to other customers, and avoid communication interference problems. Requirements for the service rules follow.</p> <ol style="list-style-type: none"> <li>1. Interconnecting a generating facility with the Company system will not be permitted until application has been made to and approval received from the electric Company. The Company will withhold approval only for good reason such as failure to comply with applicable Company or governmental rules or laws and/or accepted engineering practices. The Company will require a contract specifying reasonable technical connection and operating aspects for the parallel generating facility.</li> <li>2. The Company will require that for each generating facility there be provided between the generator or generators and the Company system a lockable load-break disconnect switch. For installations interconnected at greater than 600 volts, a fused cutout switch may be substituted, where practicable. The switches will be accessible to the Company for the purpose of isolating the parallel generating facility from the Company system when necessary.</li> <li>3. The Company will require a separate distribution transformer for a customer having a generating facility where necessary, for reasons of public or employee safety or where the potential exists for the generating facility causing problems with the service of other customers. Ordinarily this requirement should not be necessary for 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.</li> <li>4. Where necessary, to avoid the potential for a facility causing problems with the service of other customers, the Company will limit the capacity and operating characteristics of single-phase generators in a manner consistent with its existing limitations for single-phase motors. Ordinarily single-phase generators will be limited to a capacity of 10 kW or less.</li> </ol>	
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**CUSTOMER-OWNED GENERATING EQUIPMENT (continued)**

- 5. The Company will require that each generating facility have a system for automatically isolating the generator from the Company’s system upon loss of the Company supply, unless the Company desires the local generation be continued to supply isolated load. For synchronous and induction generators, such protection against continued operation when isolated from the Company system will ordinarily consist of overcurrent 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, such as plus or minus 10% of the rated values. Other suitable protective systems against abnormal voltages or frequencies may be accepted by the Company.
- 6. The Company may isolate the customer-owned generating installation from its system at times:
  - a. When considered necessary to facilitate maintenance or repair of Company facilities.
  - b. When considered necessary during system emergencies.
  - c. When considered necessary during such times as the 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.
- 7. The owner of the generating facility will be required to make the equipment available and permit entry on the property by electric and communication Company personnel at reasonable times for the purposes of testing isolation and protective equipment and 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 electric service or communication system problems.
- 8. The power output of the generating facility will be maintained such that frequency and voltage are compatible with normal electric service and do not cause that electric service to fall outside the prescribed limits of Commission rules and other standard limitations.
- 9. The generating facility will be operated so that variations from acceptable voltage levels and other service impairing disturbances do not result in adverse effects on the service or equipment of other customers, and in a manner which does not produce undesirable levels of harmonics in the Company power supply.

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<p><b>CUSTOMER-OWNED GENERATING EQUIPMENT (continued)</b></p> <p>10. The owner of the generating facility will be responsible for providing protection for the owner's installed equipment and for adhering to all applicable national, state, and local codes. The design and configuration of certain generating equipment such as that utilizing line-commutated inverters sometimes requires an isolation transformer as part of the generating installation for safety and for protection of the generating facilities.</p> <p>In addition, the owner of the generating facility will provide and maintain acceptable equipment to synchronize the generating facility with the Company's electric system when applicable. This equipment will prevent reconnection to the Company's electric system until supply has been restored unless otherwise indicated by the Company.</p> <p>The owner will provide right of access to and use of premises for metering and telemetering equipment should the Company elect to install such equipment. The owner of the generating facility will provide an electrical contact to indicate the status of the disconnecting equipment associated with the parallel generation system.</p> <p>The owner of a generating facility designed to operate in parallel with a spot network service must provide relaying or control equipment that is acceptable to the Company (i.e., to prevent the generator kW output from ever exceeding the instantaneous kW load).</p> <p>[See Wis. Admin. Code PSC 113.0207.]</p> <p><b>Right to Appeal</b></p> <p>The owner of a generating facility interconnected or proposed to be interconnected with the Company system may appeal to the Commission should any requirement of the electric service rules filed in accordance with the provisions of Customer-Owned Generating Equipment be considered to be excessive or unreasonable. Such appeal will be reviewed and the customer notified of the Commission's determination.</p> <p>[See Wis. Admin. Code PSC 113.0208.]</p>	
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<p><b>STRAY VOLTAGE TARIFF</b></p> <ol style="list-style-type: none"> <li>1. Under normal operating conditions, a neutral-to-earth current or voltage may exist on the grounded or grounding conductors or other conductive objects on the customer's premises. The source of the current or voltage may be located on the premises, off the premises, or a combination of both. Upon the customer's request, the Company will investigate inquiries associated with neutral-to-earth current or voltage concerns.</li> <li>2. Stray voltage is a 60-Hz, steady-state AC RMS voltage that can be measured across a 500-ohm shunt resistor which has been connected between two points which livestock may contact simultaneously. <i>Steady state</i> means the value of a current or voltage after all transients have decayed to a negligible value. <i>Transients</i> means changes in the steady-state current or voltage caused by faults, operation of protective devices, switching, reclosing, tap changing, motor starts or stops, motor stalls, or other phenomena that are temporary in nature.</li> <li>3. If a customer requests stray-voltage investigative analysis more than two times in a 12-month period, and the Company has not found stray voltage above the level of concern in any of these analyses, the Company will charge a fee for any further stray-voltage analyses it performs during the remainder of the 12-month period. The fee will not exceed \$300, which is estimated to be the cost of the additional requested service. <ol style="list-style-type: none"> <li>a. In this paragraph, <i>level of concern</i> is split equally between the Company and the customer. The Company's level of concern is 1.0 mA for stray voltage from off-farm sources, and the customer's level of concern is 1.0 mA for stray voltage from on-farm sources.</li> </ol> </li> <li>4. Following a determination by the Company that, under normal operating conditions, the contribution to animal contact current from off-farm sources is in excess of 1.0 mA, the Company will implement, at its expense, measures to reduce this contribution to below 1.0 mA. For farm facilities housing livestock where stray voltage from off-farm sources is a concern, it may be necessary under certain conditions to modify the farm or Company electrical system, or both.</li> </ol>	
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## ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: <u>All territory served.</u>	
<p><b>STRAY VOLTAGE TARIFF (continued)</b></p> <p>5. The Company will, based on a technical and economic analysis of acceptable alternatives for lowering levels of stray voltage at the given location, determine whether long-term system modification should be on-farm, off-farm, or both. If the Company, with the consent of the customer, chooses to install a long-term mitigation device (e.g., an electronic grounding system or equipotential plane) on farm property, the customer will assume ownership of the device. The Company will respond to reasonable customer requests regarding maintenance of the device. The customer is responsible for the daily monitoring and energy costs of the on-farm mitigation device, if any. The customer will be required to sign a Stray Voltage Reduction Agreement prior to installation of an on-farm mitigation device.</p> <p>6. The Company will not install any mitigation device(s) where its stray-voltage investigation reveals unsafe conditions, or the inspection report of a state certified commercial electrical inspector or a state certified master electrician reveals that conditions do not comply with applicable electrical codes. If the Company's investigation reveals unsafe conditions, the Company will notify the customer of the problems found and the potential hazards, and will recommend the customer take prompt action to remedy the hazard.</p> <p>7. In the event modification of on-farm or off-farm systems, to reduce off-farm stray-voltage contribution, is not required, the customer may request separation of primary and secondary neutrals. The neutral reconnection device(s) (<i>isolator[s]</i>) used for this purpose will be approved for use by the Company and the Commission. Prior to installation, the customer will submit an application form, a satisfactory farm wiring inspection report which has been issued by a state certified commercial electrical inspector or a state certified master electrician, and submit payment for all costs associated with the neutral separation. The customer will be required to sign a Customer Requested Neutral Separation Agreement and will also be required to sign a Hold Harmless/Indemnification Agreement and Release approved by the Commission. Separation costs will include labor, equipment, and materials (excluding the isolator[s]) necessary for both isolator(s) installation and a post-separation analysis of possible bypass circuitry. Costs may vary and may, therefore, be subject to a specific determination for each farm location. The isolator(s) will be leased to the customer on a monthly basis. (See Sheet No. E54 for the monthly lease rate.) This lease rate includes an appropriate amortized fee to cover the cost of an annual inspection designed to assess isolator effectiveness and to ensure that the isolator(s) continues to perform its intended function of neutral reconnection under fault conditions. Lease agreements will require monthly billings.</p>	
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<b>Electric Service Rules and Regulations</b>	Rate Schedule
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<p><b>STRAY VOLTAGE TARIFF (continued)</b></p> <p>8. If within one year of the date of installation of a customer-requested isolator(s), the customer requests isolator(s) removal, the Company will refund to the customer the amount paid for the isolator and the amortized annual inspection fee.</p> <p>9. Where modification of on-farm or off-farm systems to reduce off-farm contribution is required but cannot be accomplished within five working days, the Company will install a temporary isolator(s). The customer will be required to sign a Temporary Neutral Separation Agreement prior to installation. The Company must remove the isolator(s) and reconnect the neutrals within 90 days, unless it receives a waiver from the Commission or the customer completes a Customer Requested Neutral Separation Agreement. Upon receiving a completed Customer Requested Neutral Separation Agreement, the Company (not the customer) will provide the inspection of farm wiring by a state certified commercial electrical inspector or state certified master electrician. If any wiring code violations are found and the customer corrects them within 60 days, the Company will keep the isolator(s) in place. Otherwise, it must remove the isolator(s) and substitute another mitigation technique to reduce off-farm stray voltage to 1.0 mA or less.</p> <p>10. Should the customer whose neutrals were temporarily separated as provided for in paragraph 9 desire the isolator(s) be left in place following the required reduction of off-farm stray-voltage contribution, the customer may request the continuation of this service in accordance with the terms and conditions established in paragraph 7. The agreement will be contingent on receipt of a satisfactory wiring inspection report issued by a state certified commercial electrical inspector or a state certified master electrician. Initial installation costs will be waived.</p> <p>11. At farm locations where primary and secondary neutrals have been separated at the request of the customer as provided for in paragraphs 7 and 10, cost-free stray-voltage investigative services may be limited to an annual investigation that determines the effectiveness of the isolator and isolation and an analysis of Company facilities only. If on-farm stray-voltage analysis or additional determinations of isolation effectiveness are requested by the customer, the Company will charge a \$300 analysis fee.</p>	
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ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
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Effective in: All territory served.

**STRAY VOLTAGE TARIFF (continued)**

- 12. Numerous locations exist where primary and secondary neutrals have been separated for various reasons prior to the order date, July 16, 1996. As stray-voltage investigations are performed at these locations, either at customer request or incident to existing Company isolator removal efforts or system modifications, and the Company's stray-voltage contribution under normal operating conditions is determined to be less than 1.0 mA, these customers will become subject to all of the conditions set forth above.
- 13. Prior to July 16, 1997, the Company will perform the required stray-voltage investigation and separate the primary and secondary neutrals within 45 days of the receipt of a Commission-approved Isolation Request form and a satisfactory farm wiring inspection report which has been issued by a state certified commercial electrical inspector or a state certified master electrician. Subsequent to July 16, 1997, the Company will perform the investigation and separation within 30 days of the receipt of the above-referenced documentation. The Company will not be required to initiate the neutral separation work requested prior to receipt by the Company of full payment for all costs associated with the neutral separation, as specified in paragraph 7.
- 14. The Company will not install or permit the continued use of an isolator(s) at locations where livestock are not and/or no longer will be housed.

[See Wis. Admin. Code PSC 113.0506.]

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<p><b>CHARACTER OF SERVICE</b></p> <p>The Company distributes electric current at the following voltages:</p> <ol style="list-style-type: none"> <li>Single-phase, 60-cycle, alternating current is available at 120 volts over a two-wire service or at 120/240 volts over a three-wire service. <p>In the district served from the Company's low-voltage network system, single-phase, 60-cycle, alternating current is available at 120 volts over a two-wire service or at 120/208 volts over a three-wire service (see Low-Voltage Network System map).</p> </li> <li>Three-phase, 60-cycle, alternating current is available at 240 volts over a three-wire service except in the district served from the Company's low-voltage network system. An equipment ground wire will be grounded on the supply side of the service disconnect and will be carried through the service entrance conduit to the weatherhead, where the Company will connect it to the distribution system's ground wire. This equipment ground wire is a reduced-sized wire and is not a load-current carrying wire. No load circuits or equipment of any type will be connected to it.</li> <li>In the district served from the Company's low-voltage network system, three-phase, 60-cycle, alternating current is available at 120/208 volts over a four-wire service.</li> <li>Customers outside of the Company's low-voltage network system who provide the Company with acceptable space for transformer installations may obtain 120/208 volts or 277/480 volts over a four-wire service on specific request of customers or builders and approval by the Company, subject to the following minimum 15-minute demands: 120/208 volts - 75 kW; 277/480 volts - 150 kW.</li> <li>Three-phase, 60-cycle, alternating current may be supplied, at the Company's option, at 2,400/4,160 volts for large power installations over a four-wire service at limited locations in the service area.</li> <li>Transformers supplied by the Company for providing service at 120 volts, 120/240 volts, 120/208 volts, and 277/480 volts will be limited to standard ratio and standard impedance single- and three-phase oil-cooled types only.</li> </ol>	
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<b>Electric Service Rules and Regulations</b>	Rate Schedule
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<p><b>CHARACTER OF SERVICE (continued)</b></p> <p>7. Three-phase, 60-cycle, alternating current may be supplied, at the Company's option, at 7,970/13,800 volts or 7,200/12,470 volts over a four-wire service for large power installations at limited locations in the service area.</p> <p>8. Three-phase, four-wire, 277/480-volt spot network service will be provided only on specific written approval of the Company where: (a) the customer requests it, (b) the 15-minute demand exceeds 750 kilowatts, and (c) suitable multiple 13.8-kV circuits are available at the proposed site.</p> <p><b>CONTINUITY OF SERVICE</b></p> <p>1. The Company will use reasonable diligence to provide an uninterrupted and regular supply of service but it will not be liable for any interruptions, deficiencies, or imperfections of service not due to its own negligence. The Company may temporarily suspend the delivery of service when necessary for the purpose of making repairs, changes, and improvements on any part of its system and corrective actions to maintain system integrity.</p> <p>2. The Company will not be liable for any losses, injuries, or damages to persons or property due to disconnection in accordance with the Disconnection of Service rules of these service regulations and with Commission rules and regulations.</p>	
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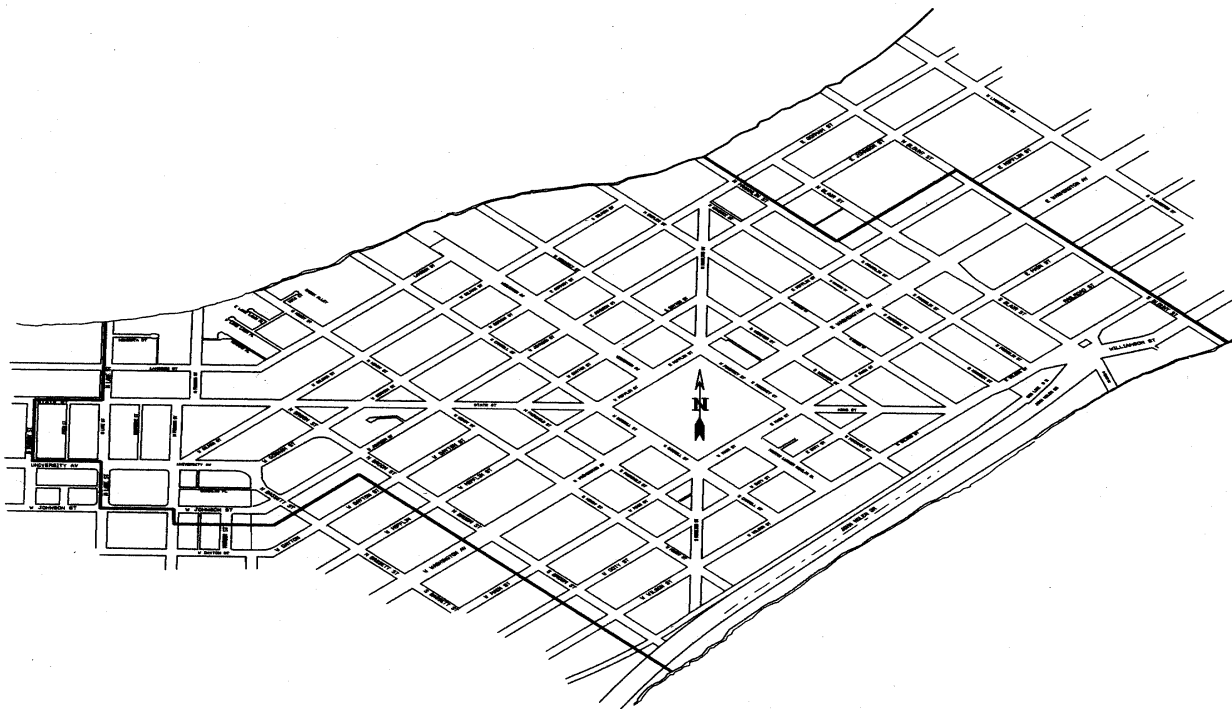
ELECTRIC VOLUME 2

**Electric Service Rules and Regulations**

Rate Schedule

Effective in: All territory served by low-voltage AC network system

**LOW-VOLTAGE NETWORK SYSTEM**



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<p><b>LOW-VOLTAGE NETWORK SYSTEM (continued)</b></p> <p><b>Service Laterals</b></p> <ol style="list-style-type: none"> <li>1. <i>Service Lateral</i> is defined as the underground secondary facilities between the nearest splicing point on the underground low-voltage network and the supply end of the customer's service entrance facilities. Service laterals are installed in conduit and normally only serve loads which are less than 75 kW.</li> <li>2. <i>Payment for Service Laterals.</i> The customer will pay in advance a set charge per foot, per conduit, for that part of the service lateral as defined above, located between the customer's lot line and their service entrance facilities. (See Sheet No. E54 for the footage charge.)</li> </ol> <p><b>Distribution System</b></p> <ol style="list-style-type: none"> <li>1. <i>Low-Voltage Network Distribution System</i> is defined to include primary lines, ducts, manholes, conduits, transformers, and all other facilities which are a part of the network system. Such facilities may be located in part on the customer's premises.</li> <li>2. <i>Transformer vaults.</i> Customers with present or prospective loads of 75 kW or more will, at the request of the Company, provide transformer vaults at Company-approved locations, constructed in accordance with Company specifications and requirements of all applicable governmental codes. The customer will contact the Company for specific dimensions, manway, and equipment way opening sizes and locations. The customer will furnish, install, own, and maintain conduit, wire, or bus duct necessary to connect the vault to the customer's switchboard. The customer will furnish, install, own, and maintain access doors, ladders, lighting equipment, ventilation equipment, and other equipment as required to comply with Company and governmental requirements. <ol style="list-style-type: none"> <li>a. The Company will, on request, furnish general plans and specifications for transformer vaults, including space and ventilation requirements, but the customer's architects or engineers will provide the structural design. The vault design will conform to the Wisconsin State Electrical Code, Volumes 1 and 2, and all applicable municipal ordinances and regulations. Such plans will be submitted to the Company for approval prior to construction.</li> <li>b. The customer will be fully responsible for any necessary maintenance and repair of the electrical vault. This is to include but not be limited to:</li> </ol> </li> </ol>	
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<b>Electric Service Rules and Regulations</b>	Rate Schedule
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Effective in: All territory served by low-voltage AC network system

**LOW-VOLTAGE NETWORK SYSTEM (continued)**

- (1) Replacement of all or portions of the structural walls, floor, and ceiling due to deterioration or degradation as determined by the Company or the customer’s licensed professional structural engineer.
- (2) Replacement or repair of the vault lighting and receptacles including the local branch feeder circuit serving the vault lighting and receptacles.
- (3) Replacement or repair of the equipment way and manway covers including doors, grates, and louvers as deemed necessary by the Company, the customer’s engineer, or the local municipality’s inspection authority.
- (4) Replacement or repair of the vault ventilation system.

**General**

- 1. *New Buildings* for which service laterals are provided will include in the construction of the building wall openings approved by the Company for service ducts required at locations specified by the Company.
- 2. *Rights-of-Way, Easements, and Maintenance of Grade.* Rights-of-way and easements suitable to the Company must be furnished by the customer without cost to the Company in reasonable time to meet service requirements. The right-of-way must be cleared of trees, tree stumps, and other obstructions prior to installation of electric facilities, but thereafter may be used by the grantor in such ways as not to interfere with the Company’s ability to maintain its electrical facilities at any time. The right-of-way will be graded to within six inches of final grade and such grading maintained by the customer during Company construction. Any added cost to the Company attributable to a change in grade will be at the expense of the property owner.
- 3. *Incidental Damages.* Except for damage caused by its negligence, the Company will not be held liable for damage to trees, shrubs, sidewalks, building floors and wall, or other obstructions incident to the installation, repair, or maintenance of its electric facilities.

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<p><b>LOW-VOLTAGE NETWORK SYSTEM (continued)</b></p> <p>4. <i>Installation of Facilities.</i> The character, location, and method of installation of the facilities to be constructed by the Company hereunder will be at the sole discretion of the Company and will conform to specifications prepared by the Company. Any exceptions consented to by the Company will be at the customer's expense.</p> <p>5. <i>Applicability of Governmental Codes.</i> All facilities installed by the Company and the customer will comply with the appropriate provisions of the applicable governmental codes.</p> <p>6. <i>Extraordinary Investment.</i> Where, in the opinion of the Company, its investment in an extension appears extraordinary, or where extensive enlargements or changes to its existing distribution or other facilities required to accommodate the customer requesting service do not appear to be economically justified, the Company may require the customer to pay the Company that portion of the capital expenditure not economically justified by the anticipated annual revenue. Such payments will be made in advance of construction.</p>	
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**MADISON GAS AND ELECTRIC COMPANY****ELECTRIC VOLUME 2**

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: <u>All territory served.</u>	
<p><b>METERS AND METER EQUIPMENT</b></p> <p>The customer will furnish and install all wiring for meter installations, including such associated facilities as meter sockets, meter enclosures, meter test block enclosure, current transformer enclosures, etc., as may be required for the appropriate type of metering installation listed below.</p> <p>All single-family residential services will have the meter installation in an accessible area outside the structure.</p> <p>The following types of metering installations will be provided for the load designated herein:</p> <p style="text-align: center;"><b><i>Residential</i></b></p> <ol style="list-style-type: none"> <li>1. Horn-Type Bypass or Manual Sealable, lever-operated bypass for self-contained meter sockets with a meter-switch-fuse sequence for: <ol style="list-style-type: none"> <li>a. Single-phase installations of 200 amperes or less. (See Figures RES-1, 2, 3, and 4.)</li> <li>b. Three-phase installations of 100 amperes or less. (See Figure COM-1.)</li> <li>c. Multiple metering installations for two to six units. (See Figure RES-7.) All apartments having more than six units should contact MGE. (See Figure RES-8.)</li> </ol> </li> <li>2. Transformer-rated meter sockets and current transformers with switch-fuse-meter sequence for: <ol style="list-style-type: none"> <li>a. Single-phase installations over 200 amperes of actual load. (See Figure RES-6.)</li> <li>b. Three-phase installations over 200 amperes of actual load. (See Figure COM-7.)</li> <li>c. Single-metered and single-phase installations of 201 to 600 amperes for single- or multiple-family residential units. (See Figure COM-3.)</li> <li>d. Single-metered and three-phase installations of over 200 amperes for single- or multiple-family residential units. (See Figure COM-7.)</li> </ol> </li> </ol>	
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## ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
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<p><b>METERS AND METER EQUIPMENT (continued)</b></p> <p>3. Underground service.</p> <p>a. The size socket to be used for underground services of 200 amperes or less will be 200 amperes with horn-type or manual sealable lever bypass with meter-switch-fuse sequence (see Figures RES-1 and 2).</p> <p>b. Underground services over 200 amperes actual load will be one of the following. They will be treated on an individual basis and will be referred to the Company for determination of metering required (see Figure COM-3).</p> <p>(1) Current transformer installations with switch-fuse-meter sequence.</p> <p>(2) Optional metering transformer cabinets for services over 200 amperes and 250 volts or less, single-meter installation, sequence of meter-switch-fuse. The customer choosing this option must provide a Company-approved outdoor metering transformer cabinet and will install it and the associated service entrance equipment in accordance with all applicable codes (exclusive of the AC low-voltage network area). (See Figure RES-6).</p> <p>(3) 320-amp pedestal-meter socket, Company-approved (see Figure RES-5).</p> <p>4. Farm Services - Pole Top</p> <p>a. Pole-top disconnects of 200 amperes or 400 amperes, single-phase, 120/240 volt with space for a current transformer are permitted. If the option of standby generator breaker is selected, it must be configured in a break-before-make switch sequence.</p> <p>b. The metering sequence will be meter-switch-fuse. For customer-owned generating equipment connections, see Customer-Owned Electric Generating Equipment. (See Figures MIS-7 and 8.)</p> <p>5. Off-Peak Water Heating Installation</p> <p>a. Wiring for residential off-peak water heating installation must include a socket for the off-peak meter. Use a meter-switch-fuse sequence. (See Figures RES-9, 9A, and 9B.)</p>	
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<p><b>METERS AND METER EQUIPMENT (continued)</b></p> <p style="text-align: center;"><i>Commercial and Industrial</i></p> <p style="text-align: center;">(Note: All services of 250 volts or more must be switch-fuse-meter sequence.)</p> <ol style="list-style-type: none"> <li>6. Manual sealable, lever-operated bypass, self-contained meter sockets with a meter-switch-fuse sequence for: <ol style="list-style-type: none"> <li>a. Single-phase installations of 100 amperes or less. (See Figure COM-1.)</li> <li>b. Three-phase installations of 100 amperes or less. (See Figure COM-1.)</li> </ol> </li> <li>7. Manual sealable, lever-operated bypass, self-contained heavy-duty jaw released meter sockets with a switch-fuse-meter sequence for: <ol style="list-style-type: none"> <li>a. Single-phase installations for 101 to 200 amperes. (See Figure COM-2.)</li> <li>b. Three-phase installations for 101 to 200 amperes. (See Figure COM-2.)</li> </ol> </li> <li>8. Transformer-rated meter sockets and current transformers with switch-fuse-meter sequence for: <ol style="list-style-type: none"> <li>a. Single-phase installations over 200 amperes for commercial and industrial customers. (See Figures COM-3 and 4.)</li> <li>b. Three-phase installations over 200 amperes for commercial and industrial customers. (See Figures COM-5, 6, and 7.)</li> </ol> </li> <li>9. For multiple-meter installations in commercial and industrial buildings, a main building disconnect is required. (See Figures COM-8, 9, and 10.)</li> <li>10. Optional metering transformer cabinets for services of 250 volts or less with single-meter installation and meter-switch-fuse sequence. Commercial or industrial single-metered customers with total service capacity of not more than 1,600 amperes may use an indoor or outdoor metering transformer cabinet installation.</li> </ol>	
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<b>Electric Service Rules and Regulations</b>	Rate Schedule
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<p><b>METERS AND METER EQUIPMENT (continued)</b></p> <ol style="list-style-type: none"> <li>11. The customer must provide an MGE-approved cabinet and install it and associated service entrance equipment in accordance with all applicable codes. (See Figures COM-11 and 12.) This sequence is not approved in the AC low-voltage network area.</li> <li>12. Primary-metered service supplied at 2,400/4,160 volts, 7,200/12,470 volts, or 7,970/13,800 volts is available at limited locations and at our discretion. Customers taking service at primary voltage must provide all the necessary switchgear for metering and fused protection of the primary side of the transformers.</li> <li>13. A switch-fuse-meter sequence must be used. Drawings of primary metered switchgear must be approved by MGE prior to purchase. (See Figure COM-14.)</li> </ol> <p><b>General</b></p> <ol style="list-style-type: none"> <li>1. In installations where code requires that an emergency service be connected on the line side of the building main disconnect, the customer will provide a suitable fused disconnect at the closest permissible location to the tap point, and metering will be accomplished by appropriate current transformer loops or separate metering installation as appropriate and approved by the Company.</li> <li>2. Locations for outdoor installations will be such as to make the meters accessible without damage to customers' lawns, gardens, or shrubbery.</li> <li>3. Meters for multiple residential, commercial, and industrial customers, office buildings, stores, and factories will be located in easily accessible portions of the buildings and, where there is more than one meter per customer, they will be grouped together and the meter loops marked to indicate the portions of the buildings supplied by each meter. Where meters are mounted side by side, at least a seven-inch space will be left between each meter and the nearest adjacent piece of equipment to permit testing and adjusting.</li> <li>4. Specifications for service entrance switchboard installations and meter installations should be secured from the Company. All switchboard installations will be approved by the Company before placing the order.</li> </ol>	
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Effective in: All territory served.

**METERS AND METER EQUIPMENT (continued)**

- 5. Meters will be installed in locations where they are accessible for reading and testing without inconvenience to the customer. They will be located on secure mountings which are free from vibration. Meter locations will be free from unusual temperature and moisture conditions. Meter sockets used for metering installations outlined under this section will be the type approved by the Company and the authorized electrical inspectors and will comply with the requirements of the Wisconsin State Electrical Code and the wiring code of the local municipality.
- 6. Architects, engineers, and contractors are requested to confer with the Company if additional information is needed for any type of metering installation.
- 7. Meters will be set, removed, and relocated by Company employees only. On jobs where it is necessary to temporarily disconnect or relocate a meter, the Company will be advised, through its Customer Center, at least a half-day before the work is to be done. Inspection permits and affidavits are required before the Company can set a meter where new wiring has been done. All meter switches, meter sockets, enclosures, and meters are sealed by the Company at the time the meters are installed. If it is necessary to break a seal because of an emergency, the Company should be advised within 48 hours to permit resealing the equipment.

**Single-Phase Equipment**

- 1. All single-phase equipment must be constructed for operation at the voltage available in the location it is to be used. The Company should be consulted in case there is a question as to the kind of service available.
- 2. The size and kind of single-phase equipment which may be supplied is specified in the various rate schedules for electric service.
- 3. Equipment, such as single-phase welders, electric furnaces, motors, parallel generators, and other equipment, which causes frequent variations in current demand sufficient to result in light flicker, must be supplied from independent service equipment, including service outlet and meter.

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## MADISON GAS AND ELECTRIC COMPANY

Amendment No. 278

## ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
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Effective in: All territory served.

**METERS AND METER EQUIPMENT (continued)****Single-Phase Motors**

Split-phase motors larger than one-half HP capacity are not permissible for any application. The locked rotor starting current for single-phase motors or customer-owned parallel generators will not exceed the values specified in the following table.

Size (Horse Power)	Allowable Starting Current at 120 Volts (Amperes)	Allowable Starting Current at 208 and 240 Volts (Amperes)
1/3	31	15.1
1/2	45	22.5
3/4	Not Allowed	30.5
1	Not Allowed	35
1-1/2	Not Allowed	40
2	Not Allowed	50
3	Not Allowed	70
5	Not Allowed	100
7-1/2	Not Allowed	115
Note: Window or room-type air conditioners and portable appliances will not have starting currents in excess of four times the rated input current.		

**Three-Phase Equipment**

All three-phase equipment must be constructed for operation at the voltage available in the location where it is to be used. The Company should be consulted in case there is a question as to the kind of service available. Notify the Company in advance of all proposed additions of three-phase equipment to ensure an adequate supply of service.

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## MADISON GAS AND ELECTRIC COMPANY

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Effective in: All territory served.

**METERS AND METER EQUIPMENT (continued)****Three-Phase Motors**

- The starting current for three-phase motors and customer parallel generators must be limited to the values given in the following table by means of suitable starting devices or motor design. These limitations must be met during all stages of the motor start and running cycle.
- All motors and customer parallel generators larger than 100 HP must be constructed to maintain a power factor in excess of 92 percent at 90 percent of full load or output.

Size (Horse Power)	Voltage	Maximum Permissible Starting Current (Amperes/Motor)
5	240	82
7-1/2	240	110
10	240	135
15	240	189
20	240	240
25	240	291
30	240	345
35	240	354
50	240	364
50	240	8 Amperes/HP

- The maximum permissible starting current for motors wound for other voltages will be the starting currents listed above divided by ratio or other voltage divided by 240 volts.

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**MADISON GAS AND ELECTRIC COMPANY****ELECTRIC VOLUME 2**

<b>Electric Service Rules and Regulations</b>	Rate Schedule
Effective in: All territory served.	
<b>TABLE OF FIGURES</b>	
<p>The following tables of figures are those mentioned in Meters and Meter Equipment. These figures are not included herein but are itemized below in the event one or more are required, in which case they may be obtained from the Company upon request.</p>	
<b>Commercial Services</b>	
Underground/Overhead Service	100 amperes or less, single-phase or three-phase COM-1
Underground/Overhead Service	101 to 200 amperes, single-phase or three phase COM-2
Underground/Overhead Service	201 to 600 amperes, 120/240-volt, single-phase, three-wire COM-3
Underground/Overhead Service	201 to 600 amperes, 120/208-volt, single-phase, three-wire COM-4
Underground/Overhead Services	Greater than 200 amperes, 240-volt, three-phase, three-wire COM-5
Overhead Service	201 to 400 amperes, three-phase, four-wire COM-6
Underground Service	Greater than 200 amperes, three-phase, four-wire COM-7
Underground Service	Multiple meters with various service sizes COM-8
Underground Service	Multiple metering, 200 amperes/position single-phase or three-phase COM-9
Underground Service	Multiple metering, 100 amperes/position single-phase or three-phase COM-10
Transformer cabinet	400 to 1,600 amperes, three-phase, four-wire COM-11
Transformer cabinet	400 to 600 amperes, single-phase, three-wire COM-12
Switchboard	Customer-owned secondary switchboard COM-13
Primary metering switchgear	One-line diagram, customer-owned COM-14
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Effective in: All territory served.

**TABLE OF FIGURES (continued)**

**Residential Services**

Underground Service	Pedestal-type meter socket, 200 amperes or less	RES-1
Underground Service	200 amperes or less	RES-2
Overhead Service	Attachment to building, 200 amperes or less	RES-3
Overhead Service	Attachment through the roof, 200 amperes or less	RES-4
Underground Service	Single-phase, 320 amperes	RES-5
Underground Service	Single meter installation, 400 to 600 amperes	RES-6
Underground Service	2 to 6 meters, 200 amperes or less per position	RES-7
Underground Service	7 meters or more, 200 amperes or less per position	RES-8
Electric water heater	200 amperes or less	RES-9
Electric water heater	One-line diagram	RES-9A RES-9B

**Network Services**

Network Map	Low-voltage Network Map	NET-1
Residential/Commercial	200 amperes or less, single-phase or three-phase	NET-2
Outdoor Residential	Multiple meters, 200 amperes or less per position, single-phase or three-phase	NET-3
Commercial	Multiple meters, 200 amperes or less per position, single-phase or three-phase	NET-4
Residential Apartment	Meter stack, 200 amperes or less per position, single-phase or three-phase	NET-5
Residential/Commercial	Single meter, 200 ampere or larger, three-phase	NET-6
Residential/Commercial	Single meter, 201 to 600 amperes, single-phase	NET-7

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**MADISON GAS AND ELECTRIC COMPANY****ELECTRIC VOLUME 2**

<b>Electric Service Rules and Regulations</b>	Rate Schedule																				
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<p><b>TABLE OF FIGURES (continued)</b></p> <p><b>Miscellaneous Services</b></p> <table border="1"> <tr> <td>Overhead clearance guidelines</td> <td>MIS-1A</td> </tr> <tr> <td>Overhead clearance guidelines - drawings</td> <td>MIS-1B</td> </tr> <tr> <td>Clearance requirements between gas meters and electric meters</td> <td>MIS-2</td> </tr> <tr> <td>Typical below-grade transformer vault</td> <td>MIS-3</td> </tr> <tr> <td>Typical transformer enclosure</td> <td>MIS-4</td> </tr> <tr> <td>Customer-owned overhead temporary service</td> <td>MIS-5</td> </tr> <tr> <td>Customer-owned underground temporary service</td> <td>MIS-6</td> </tr> <tr> <td>Farm pole-top metering installation</td> <td>MIS-7</td> </tr> <tr> <td>Standby emergency generator</td> <td>MIS-8</td> </tr> <tr> <td>Typical direct-metering wiring diagrams</td> <td>MIS-9</td> </tr> </table>		Overhead clearance guidelines	MIS-1A	Overhead clearance guidelines - drawings	MIS-1B	Clearance requirements between gas meters and electric meters	MIS-2	Typical below-grade transformer vault	MIS-3	Typical transformer enclosure	MIS-4	Customer-owned overhead temporary service	MIS-5	Customer-owned underground temporary service	MIS-6	Farm pole-top metering installation	MIS-7	Standby emergency generator	MIS-8	Typical direct-metering wiring diagrams	MIS-9
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## MADISON GAS AND ELECTRIC COMPANY

## ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: <u>All territory served.</u>	
<p><b>SERVICE FACILITIES - GENERAL INFORMATION</b></p> <p>The purpose of this section is to establish standards for electric service extension rules. These standards will not apply to the interconnection of customer-owned generation facilities. The primary objective of these standards will be to provide for an equitable cost relationship between new customers and existing customers. The determination of an equitable relationship will consider the effect of the extension rule on the environment, the Company's revenue requirement, and the efficient use of electricity.</p> <p>The Company may specify in writing the customer's service entrance locations, including service entrance conduit sizes, quantity, and termination points.</p> <p><b>A. Standard Service Facilities</b></p> <p>The Company will supply to each customer's building or premise:</p> <ol style="list-style-type: none"> <li>1. No more than one service drop or service lateral.</li> <li>2. No more than one class of service.</li> <li>3. No more than one meter.</li> </ol> <p><i>Exceptions to this rule.</i></p> <ol style="list-style-type: none"> <li>4. (Note: The Company may require customers requesting service under any of the following six exceptions to pay a contribution in advance of construction for the portion of the facilities in excess of the standard design.) Where, in the judgment of the Company: <ol style="list-style-type: none"> <li>a. More than one point of delivery is necessary because of voltage regulation, governmental requirements, or regulatory orders.</li> <li>b. For large installations, more than one service drop or service lateral of the same class of service is necessary to meet the load requirements.</li> </ol> </li> </ol>	
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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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<p><b>SERVICE FACILITIES - GENERAL INFORMATION (continued)</b></p> <ul style="list-style-type: none"> <li>c. For large, single-metered installations over 800 kW actual load, two service voltages are necessary. This exception is allowed only at the sole discretion of the Company. This exception is not allowed within the low-voltage network system.</li> <li>d. Row houses and other multiple-occupancy buildings comply with the Wisconsin State Electrical Code by having areas separated by fire walls.</li> <li>e. An additional service or meter may be required to accommodate an interruptible service rate.</li> <li>f. The available three-phase service is a 240-volt, three-wire Delta because of existing distribution facilities. However, this second class of service will not be allowed if the customer's total combined demand is greater than 50 kW (not allowed in the low-voltage network system).</li> </ul> <p>See Meters and Meter Equipment, Commercial and Industrial, which permit the customer under certain conditions to use more than one disconnect per service in accordance with COMM 16.25(6) Wis. Adm. Code (reference NEC 230-71 [1996]).</p>	
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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: <u>All territory served.</u>	
<p><b>OVERHEAD SERVICE DROPS AND UNDERGROUND SERVICE LATERALS</b></p> <p><b>A. Definitions</b></p> <ol style="list-style-type: none"> <li>1. <i>Contributed extension</i> means an extension toward which a customer has made a contribution in aid of construction.</li> <li>2. <i>Distribution facilities</i> include all primary and secondary voltage wire or cable and its supports, trenches, connection equipment, and enclosures, and control equipment which are used to extend the distribution system from existing facilities to a point of connection with the service facilities. The cost of right-of-way preparation and restoration to the original condition where appropriate will be included in the cost of distribution facilities.</li> <li>3. <i>Embedded cost</i> means the original cost of the installed utility plant less both the accumulated depreciation of the plant and associated contributions in aid of construction as recorded in the Company's books.</li> <li>4. <i>Embedded cost allowance</i> means a construction credit given a customer requesting an extension which reflects the average embedded cost of existing facilities.</li> <li>5. <i>Excess facilities</i> means an extension costing more than five times the average embedded cost allowance for a given customer classification.</li> <li>6. <i>Extension</i> means the addition of transmission, distribution, or service facilities to the existing electric service facilities.</li> <li>7. <i>Full cost</i> of an extension includes the cost of removal of existing facilities if present.</li> <li>8. <i>Noncontributed extension</i> means an extension which costs less than the embedded cost allowance: the customer requesting the extension makes no contribution in aid of construction.</li> </ol>	
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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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Effective in: All territory served.

**OVERHEAD SERVICE DROPS AND UNDERGROUND SERVICE LATERALS (continued)**

- 9. *Nonstandard route or design* means facilities which meet one or more of the following criteria:
  - a. Are different from the standard design developed pursuant to PSC 113.1002(2),
  - b. Follow a route different from the route determined in PSC 113.1002(1), or
  - c. Are not in accordance with the general principles of PSC 113.1002.
- 10. *Service drop* means the overhead secondary voltage conductors from the transformer or closest pole or support on the distribution system to the customer's electric service entrance equipment.
- 11. *Service facilities* means the transformer, service drop, or service lateral and meter.
- 12. *Service lateral* means the underground secondary voltage conductors from the transformer or closest underground pedestal on the distribution system to the customer's electric service entrance equipment.
- 13. *Transmission facilities* means a line providing electric service at 40 kilovolts or more as defined in PSC 112.02(8)(c) and the associated supports, connection equipment, enclosures, and control equipment. Transmission facilities also include the preparation cost of right-of-way and restoration of the property to its original condition where appropriate.
- 14. *Upgrade* means a modification of existing electric facilities.

[See Wis. Admin. Code PSC 113.1003.]

**B. General Requirements**

- 1. The Company will install, own, and maintain all service drops and service laterals.
- 2. For overhead service drops, the applicant's service head will be located at a point readily accessible to the distribution system. Where it is necessary to cross adjacent property, the applicant will provide an easement satisfactory to the Company. The applicant will obtain from the Company the proper location for the service head and will provide suitable anchorage for supporting the service drop on the building.

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Effective in: All territory served.

**OVERHEAD SERVICE DROPS AND UNDERGROUND SERVICE LATERALS (continued)**

- 3. When the applicant’s present or prospective load is 75 kW or more, the applicant will provide, free of cost to the Company, at the option of and as specified by the Company in accordance with applicable code requirements, either:
  - a. Transformer vault(s) constructed in accordance with Company specifications (see Service Facilities - General Information, exceptions).
  - b. An outdoor transformer enclosure, including fence, foundations, conduit, service conductor, conductor support, gates, and locking equipment.
  - c. Space for the installation of pad-mounted transformers.
  - d. In high-rise buildings, conduit extensions, space for the installation of transformers, primary cables, and associated switchgear and, on request of the Company, suitable space on the site outside of the building for the installation of high-voltage fused disconnecting equipment.

**C. Acquisition of Customer-Owned Service Laterals Installed Prior to April 1, 1965**

- 1. On written request of the customer, the Company will, without cost to it, assume the ownership and responsibility for future maintenance and replacement of customer-owned service laterals installed prior to April 1, 1965.
- 2. If, at the time of acquisition, the Company informs the customer that their service lateral will need to be replaced within three years of such date, due either to inadequacy or deterioration, the customer will rewire their service entrance equipment as necessary to accommodate a new service lateral, and the Company will treat this customer as a new applicant for service for determination of any charges or further requirements needed to provide a new service to this facility.

**D. Location of Service**

All service drops and service laterals will be extended from the Company’s distribution system to the customer’s service entrance facility over the most direct and properly engineered route as determined by the Company. The customer’s service entrance point will be specified by the Company.

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<p><b>OVERHEAD SERVICE DROPS AND UNDERGROUND SERVICE LATERALS (continued)</b></p> <p><b>E. Charges for Overhead Service Drops and Underground Service Laterals</b></p> <ol style="list-style-type: none"> <li>1. <i>Temporary service.</i> The Company will make a charge for providing 120/240-volt, single-phase temporary service up to 5 kW for construction purposes at a location selected by the Company. (See Sheet No. E54 for the charge.) The service head must be located on a satisfactory temporary support provided by the applicant. Such support must be located so as to avoid splicing wires when moved to the permanent location and will provide the clearance required by the Wisconsin State Electrical Code.</li> </ol> <p>For any other location, voltage, or load selected by the applicant, the estimated cost of installing and removing the temporary service will be paid in advance by the applicant.</p> <ol style="list-style-type: none"> <li>2. <i>Permanent service.</i> No charge will be made for permanent overhead service drops and underground service laterals meeting the aforementioned definitions and all Company rules and all applicable codes, unless there is extraordinary investment, excess facilities, and/or abnormal trenching required. The customer will pay the portion above the cost of a normal service as determined by the Company.</li> <li>3. <i>Upgrade of service facilities.</i> <ol style="list-style-type: none"> <li>a. <i>Overhead service drop.</i> The Company will not charge the customer to upgrade an overhead service drop with a larger size overhead service drop.</li> <li>b. <i>Underground service lateral.</i> The Company will not charge the customer to upgrade an underground service lateral with a larger size underground service lateral.</li> <li>c. <i>Overhead service drop to underground service lateral.</i> The Company will require a contribution from a customer requesting to have an overhead service drop upgraded to an underground service lateral. The contribution will be equal to the cost of the underground service lateral less the cost of an equivalent overhead service drop.</li> </ol> </li> </ol>	
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## ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS</b></p> <p>Upon written request, the Company will extend its distribution system to provide service to new customers in accordance with the following rules and regulations.</p> <p><b>A. Company Responsibility</b></p> <p>The Company will provide safe, reliable service with extensions that conform, to the extent possible, to each of the following standards:</p> <ol style="list-style-type: none"> <li>1. <b>Route.</b> The Company will make the extension over the most direct route which is the least expensive and least environmentally degrading. The customer will provide or will be responsible for the cost of all right-of-way easements and permits necessary for the Company to install, maintain, or replace distribution facilities. The customer will either clear and grade such property or pay the Company to clear and grade such property. The customer is responsible for the cost of restoration of the property after the Company has completed installation and backfilling where applicable.</li> <li>2. <b>Design.</b> The Company will design and install facilities to deliver service to the customer and the area at the lowest reasonable cost. The facilities will comply with accepted engineering and planning practices. The design will consider reasonable needs for probable growth in the area and local land-use planning. Unwarranted excess capacity which would result in unnecessary cost increases to the Company and its customers will be avoided. The Company will be responsible for the incremental cost of distribution facilities which are in excess of standard design for the customer and normal area growth.</li> <li>3. <b>Efficient use.</b> The Company's extension rules will discourage the inefficient use of electricity by appropriately relating costs to the charges made for extensions.</li> <li>4. <b>Cost estimates.</b> The Company will engineer and estimate the cost of each extension based on reasonable current costs. Current costs may be estimated using job specific costs, average costs per foot or unit, or other costing methods as appropriate.</li> </ol> <p>[See Wis. Admin. Code PSC 113.1002.]</p>	
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<p><b>Electric Extension Rules - Overhead and Underground</b></p>	<p>Rate Schedule</p>
<p>Effective in: All territory served.</p>	
<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)</b></p> <p><b>B. Items Included in Costing the Extension</b></p> <p><i>Customer contribution for service facilities.</i></p> <ol style="list-style-type: none"> <li>1. Metering facilities. The Company will provide the necessary standard metering facilities at no charge to the customer.</li> <li>2. Transformers. The Company will provide standard design transformers necessary to service the customer's load at no charge. <span style="float: right;">R</span></li> <li>3. Service drops and laterals. Single-phase service drops or laterals will be provided up to 120 feet free and three-phase service drops or laterals will receive up to 50 feet free from the distribution system to the customer's service entrance facility using the most direct and properly engineered route as determined by the Company. The customer will pay an incremental cost per foot for all additional footage for the service drop or lateral footage to the customer's specified service entrance point. <span style="float: right;">R R R R R</span></li> <li>4. Nonstandard service facilities. If the facilities design developed pursuant to PSC 113.1002 requires nonstandard service facilities or if the customer requests nonstandard facilities, such as moving the service entrance or the route of the service drop or lateral, the Company may require the customer to pay an incremental cost contribution in advance of construction for the portion of the facilities in excess of the standard design. <span style="float: right;">R R R R</span></li> </ol> <p><i>Customer contributions for distribution extensions.</i></p> <ol style="list-style-type: none"> <li>1. Standard designs. The customer will pay in advance and, as a minimum and refundable contribution, the estimated cost of distribution facilities to be installed which is greater than the appropriate average embedded cost allowance for existing distribution facilities.</li> <li>2. Subdivisions. Developers and subdividers will pay in advance and, as a minimum and refundable contribution, the estimated cost of distribution facilities to be installed for the area being developed. The contribution is refundable as structures are built and connected to the electric facilities.</li> <li>3. Nonstandard route or design. If a customer requests a route or design which is different from the design proposed by the Company in compliance with the requirements of PSC 113.1002, the Company will require the customer pay in advance any additional costs as a refundable contribution.</li> </ol>	
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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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Effective in: All territory served.

**OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)**

- 4. Construction charges. The Company will require the customer make a contribution in aid of construction, in advance of construction, if construction requires trenching in rocky soil, frozen ground, or other similar conditions.
- 5. Request for excess facilities. The Company may require a contract from a customer requesting the installation of excess facilities, as defined in PSC 113.1003(5), requiring the customer to pay recurring operation and maintenance expenses on the portion of the extension which is greater than five times the embedded cost allowance. The Company will provide the Commission with the reasons and supporting analysis for each such contract.

[See Wis. Admin. Code PSC 113.1004 and 113.1005]

**C. Definition of Embedded Cost Allowances**

The average embedded cost of existing facilities will be determined annually on a customer classification basis as follows:

- 1. Energy-only customers. For customer classifications billed on an energy usage only basis, the embedded cost of the distribution facilities allocated to those classifications will be divided by the number of customers in the classification to specify an average embedded cost allowance per customer. The Company may create subclassifications of energy-only commercial classifications based on customer service entrance capacity or other electrical load criteria to specify average embedded cost allowances.
- 2. Demand and energy customers. For customer classifications billed on a demand and energy usage basis, the embedded cost for distribution facilities allocated to those classifications will be divided by the total billed demand of those customers to specify an average embedded cost allowance per kilowatt of demand.
- 3. Streetlighting. For streetlighting facilities, the embedded cost of distribution facilities allocated to those classifications will be divided by the number of lighting fixtures to specify an average embedded cost allowance either by type of lighting fixture or by type and size of lighting fixture.
- 4. Seasonal customers will receive one-half the average embedded cost allowance of a year-round customer for the same customer classification.

[See Wis. Admin. Code PSC 113.1006.]

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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)</b></p> <p><b>D. Allowances</b></p> <p>The embedded cost allowance will be recomputed and filed each year to be effective March 1. (See Sheet No. E54 for the effective date and applied allowances).</p> <p><b>E. Application of Allowances</b></p> <p>Application of the allowances on a per-class-of-customer basis will be done as follows:</p> <ol style="list-style-type: none"> <li>1. Energy-only customers. <ol style="list-style-type: none"> <li>a. Customers billed on an energy-only basis are generally residential and small commercial customers requesting extensions to serve their facilities on individual lots of multi-lot plats. Where a distribution extension is necessary, the requesting customer will pay, in advance, the total cost of the extension, as described previously, less the embedded cost per customer multiplied by the number of customers to be served by the extension. This cost will be computed on an estimated basis, and the requesting customer will make an advance deposit in that amount. Upon completion of the extension, if the scope of the work has changed from that originally agreed upon with the customer, the actual cost will be determined and an appropriate refund or additional bill will be submitted to the original contributor.</li> <li>b. The requesting customer will receive allowances only for those lots having structures beyond the foundation stage that will take a service drop or service lateral directly from the distribution extension being made.</li> </ol> </li> </ol>	
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<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: All territory served.	
<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)</b></p> <ul style="list-style-type: none"> <li>c. Refunds, on an embedded cost per customer basis, will be made to the original contributing customer as new customers take service drops or service laterals off the extension within five years of the completion of the original extension. The refund shall be equal to the greater of the embedded cost allowance in effect at the time the contributed extension was installed or the current embedded cost allowance. This refund, in either case, shall be reduced by the costs incurred by the Company to design and install the distribution facilities for the second customer. The total refund shall not exceed the original total amount paid.</li> <li>d. The original contributor will receive from the Company a contract letter specifying the terms and conditions for any refunds.</li> <li>e. No refunds will be allowed after five years from the date of the original extension. The total of the refunds shall not exceed the original amount paid, and no interest will be paid on refunds.</li> <li>f. For relocating and rebuilding existing facilities, refer to "Relocating and Rebuilding Existing Facilities" in this section.</li> </ul> <p>2. Demand-plus energy customers.</p> <ul style="list-style-type: none"> <li>a. Customers billed on an energy-and-demand basis are generally commercial customers with demand greater than 20 kW. These customers requesting service that require rearrangement of existing or construction of new distribution facilities will pay, in advance, the total cost of such rearrangement or new extension less the embedded cost allowance per kilowatt of demand multiplied by the customer's estimated average billed demand. The cost will be estimated, and a deposit equal to the estimate will be made in advance. Upon completion of the extension, if the scope of the work has changed from that originally agreed upon with the customer, the actual cost will be determined and an appropriate refund or additional bill will be submitted to the original contributor.</li> <li>b. The customer's estimated average billed demand will be determined by utilizing 40 percent of the customer's stated service entrance facility rating which is based on the Company's experience with the relationship between a customer's actual load and the size of the service entrance.</li> </ul>	
Issued: December 29, 2000	Next Page is Sheet No. E 92.05
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## MADISON GAS AND ELECTRIC COMPANY

Amendment No. 278

## ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: All territory served.	
<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)</b></p> <ul style="list-style-type: none"> <li>c. For customers of this class requesting an increase in facilities, the cost will be the total distribution facility construction cost as defined in “Items Included in Costing the Extension” in this section, less an allowance equal to the incremental increase in demand multiplied by the embedded cost per kilowatt less the accumulated depreciation of the removed facilities, less the salvage value of the facilities removed. Upon completing the extension, if the scope of the work has changed from that originally agreed upon with the customer, the actual cost will be determined and an appropriate refund or additional bill will be submitted to the original contributor.</li> <li>d. After completing the extension and final costs have been settled between the Company and the customer, a contract letter specifying the possibility of refunds will be sent to the customer. It will explain the circumstances under which refunds may occur as a result of the addition of new customers taking service drops or service laterals off the extension within five years of the completion of the original extension. The refund shall be equal to the greater of the embedded cost allowance in effect at the time the contributed extension was installed or the current embedded cost allowance. This refund, in either case, shall be reduced by the costs incurred by the Company to design and install the distribution facilities for the second customer. The total refund shall not exceed the original total amount paid.</li> <li>e. The requesting customer will receive allowances only for those lots having structures beyond the foundation stage that will take a service drop or service lateral directly from the distribution extension being made.</li> <li>f. The original contributor will receive from the Company a contract letter specifying the terms and conditions for any refunds.</li> <li>g. No refunds will be allowed after five years from the date of the original extension. The total of the refunds shall not exceed the original amount paid, and no interest will be paid on refunds.</li> <li>h. For relocation and rebuilding of existing facilities, refer to “Relocating and Rebuilding Existing Facilities” in this section.</li> </ul>	
Issued: December 29, 2000	Next Page is Sheet No. E 92.06
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## MADISON GAS AND ELECTRIC COMPANY

## ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: All territory served.	
<p><b>OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)</b></p> <ol style="list-style-type: none"> <li>3. Streetlight extensions. For streetlight extensions, service drops, or service laterals, the cost to the requesting party will be the total cost of the facilities needed to provide service to the streetlights less the embedded cost allowance per fixture. This cost will be collected in advance on an estimated basis. Upon completing the extension, if the scope of the work has changed from that originally agreed upon with the customer, the actual cost will be determined and an appropriate refund or additional bill will be submitted to the original contributor.</li> <li>4. More than one rate form. For extensions of distribution facilities to more than one customer where some are billed on energy-only and some on demand and energy, the total allowance will be determined by either allocating certain costs of the extension to each class separately or by adding the allowances together to derive one total allowance to offset one total cost. The method will be determined by the Company and used so as to minimize confusion over payment and/or refund policies.</li> <li>5. Upgrade of distribution facilities. For customers who require an upgrading of their distribution facilities, allowances will be determined as follows: <ol style="list-style-type: none"> <li>a. Demand schedule. Customers who are served under a demand rate schedule shall receive an embedded cost allowance. The kilowatts of demand to be used in determining the allowance will be the customer's estimated average billed demand after the upgrade less the customer's estimated average billed demand before the upgrade. (Refer to "Allowances" in this section for determination of estimated average billed demand.)</li> <li>b. Customers transferring to a different energy-only classification. If a customer served under an energy-only subclassification prior to the upgrade qualifies for a different energy-only subclassification after the upgrade, the customer will receive an allowance equal to the difference between the two embedded cost allowances.</li> <li>c. Customers transferring to a demand classification. If a customer is served under an energy-only classification prior to the upgrade, the customer will receive an embedded cost allowance. The kilowatts of demand to be used in determining the allowance will be the customer's estimated average billed demand after the upgrade less an estimate of the customer's prior average billed demand. (Refer to "Allowances" in this section for determination of estimated average billed demand.)</li> </ol> </li> </ol> <p>[See Wis. Admin. Code PSC 113.1007.]</p>	
Issued: December 29, 2000	Next Page is Sheet No. E 92.07
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MADISON GAS AND ELECTRIC COMPANY

ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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Effective in: All territory served.

**OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)**

**F. Economic Evaluation**

Proposed extensions may be reviewed for economic considerations. If the cost of an extension exceeds five times the embedded cost to serve a customer in the same class as the customer for whom the extension is to be made, the Company may require a contract with the customer. Under the terms of the contract, the customer will be required to pay, on a monthly basis, the recurring estimated operation and maintenance expenses associated with that portion of the extension which is in excess of five times the embedded cost at the time the extension was made. The reasons and supporting analyses for each contract will be furnished the customer and the Commission in writing. The Company will inform the customer of the customer's right to ask the Commission for a review of the extension costs and contract provisions.

**G. Relocating and Rebuilding Existing Facilities**

1. Relocating and rebuilding existing distribution facilities. Where responsibility can be determined by the Company, the customer responsible for relocation, rebuilding, or other modifications of existing distribution facilities will pay, in advance, a contribution equal to the full estimated cost of construction including the cost of removing existing distribution facilities less the average embedded cost allowance, if applicable, and less the accumulated depreciation and the salvage value of facilities removed. The costs and credits will be determined from the available records of the Company. The Company will endeavor to maintain records that permit a reasonable calculation of these costs and credits. The contribution will be refundable as additional customers attach to the facilities for which the customer made a contribution unless the additional customers require a new extension under PSC 113.1003(1). (See PSC 113.1007(1).)
  
2. Replacement of overhead distribution facilities with underground distribution facilities. A customer requesting the Company to replace existing overhead distribution facilities with underground distribution facilities will pay, in advance, the full estimated cost of construction including the cost of removal of existing distribution facilities less the average embedded cost allowance, if applicable, and less the accumulated depreciation and the salvage value of the existing overhead facilities which are removed. This contribution will be refundable as additional customers attach to facilities for which the customer made a contribution if the cost of the required distribution facilities to serve the new customer is less than the appropriate embedded cost allowance.

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MADISON GAS AND ELECTRIC COMPANY

ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
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Effective in: All territory served.

**OVERHEAD AND UNDERGROUND DISTRIBUTION EXTENSIONS (continued)**

- 3. Upgrade of distribution facilities.
  - a. *Due to change in load.* Customers who request an upgrading of the Company distribution facilities due to a change in the character of their load will pay, in advance, for the construction costs incurred by the Company to provide the requested additional facilities.
  - b. *Demand schedule.* Customers who are served under a demand rate schedule will receive an embedded cost allowance. The kilowatts of demand to be used in determining the allowance will be the customer's average billed demand after the upgrade less the customer's average billed demand before the upgrade.
  - c. *Customers transferring to a different energy-only classification.* If a customer served under an energy-only subclassification prior to the upgrade qualifies for a different energy-only subclassification after the upgrade, the customer will receive a cost allowance equal to the difference between the embedded cost allowances.
  - d. *Customers transferring to a demand classification.* If a customer is served under an energy-only classification prior to the upgrade, the customer will receive an embedded cost allowance. The kilowatts of demand to be used in determining the allowance will be the customer's average billed demand after the upgrade less an estimate of the customer's prior average demand.

[See Wis. Admin. Code PSC 113.1008.]

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## MADISON GAS AND ELECTRIC COMPANY

Amendment No. 278

## ELECTRIC VOLUME 2

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: <u>All territory served.</u>	
<p><b>GENERAL</b></p> <p><b>Rights-of-Way, Easements, and Maintenance of Grade</b></p> <p>Rights-of-way and easements suitable to the Company must be furnished by either the applicant or developer without cost to the Company in reasonable time to meet service requirements. The right-of-way must be cleared of trees, tree stumps, and other obstructions prior to installation of electric facilities, but thereafter may be used by the grantor in such ways as not to interfere with the Company's ability to maintain its electrical facilities at any time. The right of way shall be graded within six inches of final grade, and such grading maintained by the applicant during utility construction. Future changes or relocations of Company facilities required because of changes in grade shall be at the expense of the property owner.</p> <p><b>Customer's Responsibility for Damage to Company Equipment</b></p> <p>The developer or builder shall save the Company harmless from any damage to the Company's facilities resulting from other construction work on the premises.</p> <p><b>Abnormal Trenching Costs</b></p> <p>The applicant shall pay, in advance, an amount equal to the estimated extra cost of trenching and hand digging through any area where normal plowing and trenching methods cannot be used; e.g., ledge rock, boulders, landfill, trees, heavy underbrush, water courses, etc. Winter charges will apply for any service lateral and/or distribution extension installed between December 1 and March 31 unless the application for service and/or request for distribution extension is received prior to November 1 and the premise and/or site is ready for installation prior to December 1.</p> <p><b>Installations Under and Through Paved and Landscaped Areas on Private Property</b></p> <p>Where it is necessary to install Company facilities in paved or landscaped areas on private property, the Company will make the installation and return the surface area to as near the original state as is reasonably practicable to do.</p>	
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**MADISON GAS AND ELECTRIC COMPANY**

Amendment No. 278

**ELECTRIC VOLUME 2**

<b>Electric Extension Rules - Overhead and Underground</b>	Rate Schedule
Effective in: <i>All territory served.</i>	
<p><b>GENERAL (continued)</b></p> <p><b>Incidental Damages</b></p> <p>Except for damage caused by its negligence, the Company shall not be held liable for damage to trees, shrubs, fences, sidewalks, or other obstructions incident to the installation, repair, or maintenance of its electric facilities. The applicant shall be responsible for lawn and landscape restoration except as noted above. Where the Company is requested to provide restoration, the applicant shall be responsible for the associated costs. Excavation and backfilling shall be the responsibility of the Company. Backfill shall consist of the original spoil.</p> <p><b>Installation of Facilities</b></p> <p>The character, location, and method of installation of the facilities to be constructed by the Company hereunder shall be at the sole discretion of the Company and shall conform to specifications prepared by the Company. Any exceptions, if consented to by the Company, shall be at the customer's expense.</p> <p><b>Applicability of Governmental Codes</b></p> <p>All facilities installed by the Company and the customer shall comply with the appropriate provisions of the applicable governmental codes.</p> <p><b>Extraordinary Investment</b></p> <p>Where, in the opinion of the Company, its investment in an extension appears extraordinary, or where extensive enlargement or changes to its existing distribution or other facilities are required to accommodate the customer(s) requesting service do not appear to be economically justified, the Company may require the customer(s) to pay the Company that portion of the capital expenditure not economically justified by the anticipated annual revenue. Such payments shall be made in advance of construction. (See also Overhead and Underground Distribution Extensions, Economic Evaluation, where the Company may require a specific contract with the customer to pay operating and maintenance expenses.)</p>	
Issued: December 29, 2000	Next Page is Sheet No. E 96
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MADISON GAS AND ELECTRIC COMPANY

ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
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Effective in: All territory served.

**Front**

R

**DISCONNECT NOTICE**

Madison Gas and Electric Company  
 PO Box 1231, Madison, Wisconsin 53701-1231  
 608-252-7144 TDD 608-252-4777 1-800-245-1125

Viroqua Gas Company  
 PO Box 109, Viroqua, Wisconsin 54665  
 608-637-3139 1-877-388-3139

Prairie du Chien Gas Company  
 PO Box 266, Prairie du Chien, Wisconsin 53821  
 608-326-2417 1-888-326-2417

Your account is past due. Unless full payment is made within **10 days** after date of this notice, service will be discontinued. To avoid interruption of service and payment of a reconnection charge, please give this matter your immediate attention.

**Important - See Reverse Side**

Account Number	
Notice Date	<b>Amount Past Due</b>
<b>Reconnection Charge</b>	
Gas Service	\$30.00 8 a.m. - 4:30 p.m. Monday through Friday, except Holidays
Electric Service	\$27.00 8 a.m. - 4:30 p.m. Monday through Friday, except Holidays

-----  
**AVISO DE DESCONEXIÓN - para prevenir la interrupcion de su servicio, contacte a MGE inmediatamente.**  
 -----

Pay your bill by credit card or electronic check. Call 1-800-526-5995. Processor fees apply.

**Madison Gas and Electric Company**  
 133 South Blair Street, PO Box 1231, Madison, Wisconsin 53701-1231  
 Phone 608-252-7144 TDD 608-252-4777 Toll Free 1-800-245-1125

**DISCONNECT NOTICE**

**Please return this portion with payment within 10 days.**

Account Number	
Notice Date	<b>Amount Past Due</b>

**Back**

In accordance with Wisconsin Administrative Code, please contact our office immediately upon receipt of this notice for any of the following reasons:

- A. If you dispute the amount shown as past due on this notice.
- B. If you wish to negotiate a deferred payment agreement as an alternative to disconnection.
- C. If any resident is seriously ill.
- D. If there are infants, young children, aged, or handicapped persons present.
- E. If there are residents who have mental retardation or other developmental or mental disabilities.
- F. If there are any other extenuating circumstances, such as life-sustaining equipment, connected to the meter.

Residential utility service will be continued for up to 21 days to enable you to arrange for payment if you provide a statement from a licensed Wisconsin physician or a notice from a public health, social services, or law enforcement official which identifies the medical or protective services emergency and specifies the period of time during which disconnection will aggravate the circumstance.

City of Madison residents may notify the Director of Public Health, Room 507, City-County Building, telephone 266-4840, who has the authority to declare a medical emergency if disconnection of service would result in a serious threat to the health, safety, or well-being of any resident of your premises.

An appeal may be made to the staff of the Public Service Commission of Wisconsin, telephone 1-800-225-7729, if the grounds for the proposed disconnect or the amount of any bill remains in dispute after contacting this Company for available remedies.

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## MADISON GAS AND ELECTRIC COMPANY

Amendment No. 278

## ELECTRIC VOLUME 2

<b>Electric Service Rules and Regulations</b>	Rate Schedule
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Effective in: All territory served.

**FRONT****MADISON GAS AND ELECTRIC COMPANY**Post Office Box 1231  
Madison, Wisconsin 53701  
(608) 252-7141**DEPOSIT REQUEST \*\*\*FINAL NOTICE\*\*\***

## DEPOSIT INFORMATION

Date  
Due Date  
Bill Type 50  
Account No.  
Deposit Amount Due \$  
For Service At:T  
O

PLEASE RETURN TOP PORTION WITH PAYMENT

DESCRIPTION	AMOUNT
<p align="center"><b>*** NOTICE OF DISCONNECTION ***</b></p> <p>Service is subject to disconnection if payment of this security deposit is not received in our office by _____.</p> <p>Reconnection Charge: \$20.00 8 a.m. - 4:30 p.m., Monday Through Friday (excluding holidays) \$35.00 All Other Times Plus Holidays</p> <p>Our records indicate that you are using service at _____. However, we have not received a deposit as required. Since we cannot continue service to this premise without your deposit, we would appreciate your promptness in this matter.</p> <p align="center">DEPOSIT AMOUNT DUE</p>	<p align="center">\$</p>

Please Retain Lower Portion for Your Records

84-1210-5

**BACK**

In accordance with Wisconsin Administrative Code, please contact our office immediately upon receipt of this notice for any of the following reasons:

- A. If you dispute the amount shown as past due on this notice.
- B. If you wish to negotiate a deferred payment agreement as an alternative to disconnection.
- C. If disconnection of service poses a threat to the health, safety or well-being of a resident of your premises due to any of the following reasons:
  - infirmities of aging
  - developmental or mental disabilities
  - use of life-sustaining equipment connected to the meter
  - frailties associated with infants or young children

Residential utility service will be continued for up to 21 days to enable you to arrange for payment, if you provide our office with a statement from a licensed Wisconsin physician or a notice from a public health, social services, or law enforcement official which identifies the medical or protective services emergency and specifies the period of time during which disconnection will aggravate the circumstance.

An appeal may be made to the staff of the Public Service Commission of Wisconsin, telephone 1-800-225-7729, if the grounds for the proposed disconnect or the amount of any bill remains in dispute after contacting this Company for available remedies.

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## MADISON GAS AND ELECTRIC COMPANY

## ELECTRIC VOLUME 2

Rate Schedule

**Electric Service Rules and Regulations**Effective in: All territory served.**FRONT**

MADISON GAS AND ELECTRIC COMPANY  
Post Office Box 1231  
Madison, Wisconsin 53701  
(608) 252-7141

Mr. Joe Customer  
123 State Street  
Madison, Wisconsin 53700

**GUARANTEE REQUEST****\*\*\*FINAL NOTICE\*\*\*****GUARANTEE INFORMATION**

Date March 23, 1995  
Account No. 1000000  
Guarantee Amount \$135.00  
For Service At 123 State Street

**\*\*\* NOTICE OF DISCONNECTION \*\*\***

Service is subject to disconnection if the guarantee agreement is not received in our office by April 15, 1995.

Reconnection Charge:	\$20.00	8 a.m. - 4:30 p.m., Monday through Friday (excluding holidays)
	\$35.00	All other times plus holidays

Our records indicate that you are using service at 123 State Street. However, we have not received the guarantee agreement. Since we cannot continue service to this premise without the guarantee agreement, we would appreciate your promptness in this matter.

**GUARANTEE AMOUNT                    \$135.00**

**BACK**

In accordance with Wisconsin Administrative Code, please contact our office immediately on receipt of this notice for any of the following reasons:

- A. If you dispute the amount shown as past due on this notice.
- B. If you wish to negotiate a deferred payment agreement as an alternative to disconnection.
- C. If any resident is seriously ill.
- D. If there are infants, young children, aged, or handicapped persons present.
- E. If there are residents who have mental retardation or other developmental or mental disabilities.
- F. If there are any other extenuating circumstances, such as life-sustaining equipment, connected to the meter.

Residential utility service will be continued for up to 21 days to enable you to arrange for payment if you provide a statement from a licensed Wisconsin physician or a notice from a public health, social services, or law enforcement official which identifies the medical or protective services emergency and specifies the period of time during which disconnection will aggravate the circumstance.

City of Madison residents may notify the Director of Public Health, Room 507, City-County Building, telephone 266-4840, who has the authority to declare a medical emergency if disconnection of service would result in a serious threat to the health, safety, or well-being of any resident of your premises.

An appeal may be made to the staff of the Public Service Commission of Wisconsin, telephone 1-800-225-7729, if the grounds for the proposed disconnect or the amount of any bill remains in dispute after contacting this Company for available remedies.

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