

Case No: U-12970
Witness: TAYehl
Exhibit: A-__ (TAY-2)
Date: June 2001

CONSUMERS ENERGY COMPANY
MPSC Case No. U-12970

Application of Unbundled Rates to the Tariff Sheets

MICHIGAN PUBLIC SERVICE COMMISSION
FILE U-12970
EXHIBIT NO. A-3
DATE 11/27/01 Bell REPORTER

(Continued From Sheet No. D-5.00)

D5. SUBSTATION OWNERSHIP CREDIT

- A. The substation ownership credit is available for customers receiving primary voltage service on Rate B-1, CG, D, F, I, J, J-1, PS-3 or R-3.

Where service is supplied at a nominal voltage of more than 25,000 volts and the customer provides all of the necessary transforming, controlling and protective equipment for all of the service there shall be deducted from the capacity *kilowatt* charge a monthly credit equal to the maximum demand charge for transmission level applied to the maximum demand used for billing the capacity *kilowatt* charge. Customers on Rate B-1 are to receive the same credit per kW as Rate D customers. For those customers, part of whose load is served through customer-owned equipment, the credit shall be based on the maximum demand used for billing the capacity *kilowatt* charge through such customer-owned equipment.

- B. For Rate J-1 customers a substation ownership credit is available to customers served at subtransmission voltage or higher, who provide the onsite substation including all necessary transforming, controlling and protective equipment. A credit of \$.0033 per kWh will be applied to the energy use associated with the first 100 hours' use of maximum demand. For those customers, part of whose load is served through customer-owned equipment, the credit shall be based on the maximum demand used for billing through such customer-owned equipment.

- C. These credits shall not operate to reduce the customer's billing below the prescribed minimum charges included in the rate.

- D. The credit shall be based on the kW after the 1% deduction or 3% addition referred to on the individual rate schedules has been applied to the metered kW.

D6. TEMPORARY SERVICE

Customers desiring temporary general secondary service, such as for construction jobs, traveling shows, outdoor or indoor entertainments or exhibitions, etc, shall pay the monthly charges provided in General Service Secondary Rate B. However, if such service extends for a period in excess of six months, the customer may qualify for other available Company rates.

In addition, such customer shall pay installation and removal charges as follows:

- A. Where 120/240 volt single-phase service is desired and such service is available at the site, the applicant for service shall pay the cost of furnishing, installing, and removing such temporary service equipment in excess of any salvage realized.
- B. Where 120/240 volt single-phase service is not available at the site, or if other than 120/240 volt single-phase service is desired, the charge for installation and removal shall be based on the cost thereof.

The customer will be required to pay the Company in advance an amount to cover the cost of installing and removing these temporary facilities and may be required to deposit, in advance, the estimated cost of service under the terms of the rate set forth above. Meters may be read daily and the deposit modified as the energy used may justify such modifications.

(Continued on Sheet No. D-7.00)

Issued by
D. W. Joos,
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(Continued From Sheet No. D-7.00)

D7. AUXILIARY OR STANDBY SERVICE (Contd)

D. Standby Rate

An operator who contracts for standby service under Rule D7., Auxiliary or Standby Service, shall be billed for standby service at the rate specified below.

A monthly customer charge of \$100.00.

A monthly demand charge of \$.33 per kW of contracted maximum standby capacity shall always be paid each month regardless of whether standby energy is used in that month. The maximum demand for billing purposes shall be equal to the contracted maximum standby capacity in kW and such capacity shall be subject to the maximum demand charge in the applicable firm rate. An operator requiring secondary service shall pay a monthly maximum demand charge equal to the maximum demand charge for General Service Primary Rate D.

After an operator has used, in a contract year, a number of on-peak kWh for standby energy, exclusive of energy used under the maintenance power provision of this rule, equal to 88.9 hours times the operator's contracted standby demand, the on-peak billing demand charge for the customer's applicable firm rate shall also be paid for all subsequent purchases of standby energy (excluding maintenance energy) during that contract year. Standby capacity service shall not be subject to the provision requiring the application of 60% of the highest on-peak billing demand of the preceding billing months of June through September. However, the on-peak billing demand for firm capacity service shall never be less than 60% of the "contracted" firm capacity. The kWh as calculated above for the contract year shall not be changed once that year has begun. For purposes of applying this on-peak billing demand charge, the on-peak billing demand shall be the highest 15-minute kW standby demand created during the on-peak period, but never less than 80% of the kVA standby demand created during the same interval. If the on-peak kW standby demand is equal to or greater than 90% of the actual maximum on-peak kilovolt-ampere (kVA) standby demand for the same interval, then the on-peak kW standby demand charge shall be reduced by 2%. If the maximum kW demand is equal to or greater than 90% of the actual maximum kilovolt-ampere (kVA) demand for the same interval, then the maximum demand charge shall be reduced by 2%.

Kilowatt-hour charges for standby service shall be billed on the customer's applicable firm rate. In addition, the operator shall pay the same Surcharges, Credits and Base Rate Adjustments applicable to the firm rate.

Due Date and Late Payment Charge

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

(Continued on Sheet No. D-9.00)

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(Continued From Sheet No. D-8.00)

D7. AUXILIARY OR STANDBY SERVICE (Contd)

E. Maintenance Power

An operator who contracts for standby service under Rule D7., Auxiliary or Standby Service, shall also be eligible to receive maintenance power under the following provisions:

Standby power for maintenance shall be available to an operator for a maximum of thirty days per contract year. The thirty days may be used consecutively or divided between two or three maintenance periods. Such maintenance power shall be subject to a written request by the operator at least ninety days prior to the commencement of the maintenance period and the Company's agreement within thirty days of such request. If, after the Company and the operator have agreed upon a schedule for maintenance power there is a substantial change in circumstances which makes the agreed-upon schedule impractical for either party, the other party shall upon request make reasonable efforts to adjust the schedule in a manner that is mutually agreeable. During the period of maintenance power, energy used for maintenance purposes shall not be used to accumulate toward the customer's on-peak kWh as calculated in Section D. The standby on-peak demand charge shall also be waived during the period of maintenance power. The operator shall continue to pay the monthly maximum demand charge provided in the Standby Rate and the applicable firm power charges. When the actual maintenance maximum demand level (excluding any demand for firm power) exceeds the contracted maximum standby demand, such maintenance demand shall become the new contracted maximum standby demand. Energy use for maintenance power in excess of the contracted maximum firm demand shall be billed at the following rate:

\$.0313 per kWh for kWh consumed on-peak
\$.0263 per kWh for kWh consumed off-peak

For application of the above *kilowatt-hour* charges, the Schedule of On-Peak and Off-Peak Hours included in Rule D3., Provisions Governing the Application of On-Peak and Off-Peak Rates, shall be used.

In addition, the operator shall pay the same Surcharges, Credits, Base Rate Adjustments and Late Payment Charges applicable to the firm rate.

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Effective for service rendered on
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GENERAL SERVICE SECONDARY RATE B

Availability:

Subject to any restrictions, this rate is available to any customer desiring secondary voltage service. This rate is also available for service to any customer where the Company elects to provide one transformation from the available primary distribution voltage to another primary voltage desired by the customer.

This rate is not available for private family dwellings, resale purposes or for streetlighting service except for private streets, mobile home parks or service to temporary streetlighting installations.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

When the service is three-phase, 3-wire, lighting may be included, provided the customer furnishes all transformation facilities required for such purpose, and so arranges the lighting circuits as to avoid excessive unbalance of the three-phase load. When the service is single-phase, or 4-wire, three-phase, the single-phase individual motor capacity shall not exceed 3 hp, nor the total single-phase motor capacity of 10 hp, without the specific consent of the Company.

Where the Company elects to measure the service on the primary side of the transformers, 3% shall be deducted for billing purposes from the energy measurements thus made.

Monthly Rate:

Customer Charge:

\$7.00 per customer per month, plus

Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment):	\$.0584 per kWh for all kWh
Transmission Charge:	\$.0027 per kWh for all kWh
Distribution Charge:	\$.0205 per kWh for all kWh
Customer Related Charge:	\$.0057 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0050 per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0923 per kWh for all kWh

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

(Continued on Sheet No. E-20.00)

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D. W. Joos,
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GENERAL SERVICE PRIMARY RATE B-1

Availability:

Subject to any restrictions, this rate is available to any customer desiring primary voltage service. This rate is not available for resale purposes or for streetlighting service except for temporary service for streetlighting installations.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

Where service is supplied at a nominal voltage of 25,000 volts or less, the customer shall furnish, install and maintain all necessary transforming, controlling and protective equipment.

Where the Company elects to measure the service at a nominal voltage above 25,000 volts, 1% shall be deducted, for billing purposes, from the energy measurements thus made.

Where the Company elects to measure the service at a nominal voltage of less than 2,400 volts, 3% shall be added, for billing purposes, to the energy measurements thus made.

All facilities operated in parallel with the Company's system must meet the Parallel Operation Requirements set forth in Rule B10.6C. Generation Equipment for which standby service is being provided shall be metered by meters furnished, installed and maintained by the Company.

Monthly Rate:

Customer Charge:

\$14.00 per customer per month, or,
\$100.00 per customer per month for standby customers, plus

Kilowatt-hour Charge:

<i>Generation Charge (Excludes Base Rate Adjustment):</i>	<i>\$.0519 per kWh for all kWh</i>
<i>Transmission Charge:</i>	<i>\$.0022 per kWh for all kWh</i>
<i>Distribution Charge:</i>	<i>\$.0094 per kWh for all kWh</i>
<i>Customer Related Charge:</i>	<i>\$.0018 per kWh for all kWh</i>
<i>Regulatory Adjustment Charge:</i>	<i>\$.0122 per kWh for all kWh</i>
 <i>Total Kilowatt-hour Charge:</i>	 <i>\$.0775 per kWh for all kWh</i>

(Continued on Sheet No. E-22.00)

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GENERAL SERVICE SECONDARY RATE C

Availability:

Subject to any restrictions, this rate is available to any customer desiring secondary voltage service where the billing demand is 5 kW or more. This rate is also available for service to any customer where the Company elects to provide one transformation from the available primary distribution voltage to another primary voltage desired by the customer.

This rate is not available for private family dwellings, streetlighting service or for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

When the service is three-phase, 3-wire, lighting may be included, provided the customer furnishes all transformation facilities required for such purpose, and so arranges the lighting circuits as to avoid excessive unbalance of the three-phase load. When the service is single-phase, or 4-wire, three-phase, the single-phase individual motor capacity shall not exceed 3 hp, nor the total single-phase motor capacity of 10 hp, without the specific consent of the Company.

Where the Company elects to measure the service on the primary side of the transformers, 3% shall be deducted for billing purposes from the demand and energy measurements thus made.

Monthly Rate:

Customer Charge:

\$20.10 per customer per month or,
\$55.00 per customer per month for time-of-day customers, plus

Capacity Kilowatt Charge:

Generation Charge:	\$ 9.31 per kW for all kW of billing demand
Transmission Charge:	\$.84 per kW for all kW of billing demand
Distribution Charge:	\$ 1.25 per kW for all kW of billing demand
Total Capacity Kilowatt Charge:	\$11.40 per kW for all kW of billing demand, plus

Kilowatt-hour Charge:

	For the First 200 kWh Per kW of Billing Demand	For the Excess kWh
Generation Charge (Excludes Base Rate Adjustment):	\$.0282 per kWh	\$.0233 per kWh for the excess
Distribution Charge:	\$.0096 per kWh	\$.0096 per kWh for the excess
Customer Related Charge:	\$.0004 per kWh	\$.0004 per kWh for the excess
Regulatory Adjustment Charge:	\$.0016 per kWh	\$.0016 per kWh for the excess
Total Kilowatt-hour Charge:	\$.0398 per kWh	\$.0349 per kWh for the excess

(Continued on Sheet No. E-24.00)

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GENERAL SERVICE SECONDARY RATE C
(Continued From Sheet No. E-23.00)

Monthly Rate: (Contd)

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Adjustment for Power Factor:

When the average power factor during the billing month is less than 80% lagging, the Company reserves the right to increase the capacity *kilowatt* charge for such billing month in the ratio that 80% bears to such power factor. The Company may, at its option, determine the power factor by test or by permanently installed measuring equipment. The capacity *kilowatt* charge shall not be increased when the Billing Demand is based on 60% of the highest billing demand of the preceding billing months of June through September or on a minimum billing demand.

Billing Demand:

The billing demand shall be the kilowatts (kW) supplied during the period of maximum use in the billing month but not less than 60% of the highest billing demand of the preceding billing months of June through September, nor less than 5 kW.

The Company reserves the right to make special determination of the billing demand and/or minimum charge should equipment which creates high demands of momentary duration be included in the customer's installation.

When a customer guarantees a billing demand of 100 kW, the current month billing demand shall be the greatest of (1) the highest actual on-peak demand created during the billing month, (2) 1/3 of the highest off-peak demand created during the billing month, (3) 100 kW, or (4) 60% of the highest billing demand created during the previous billing months of June through September. For the purpose of applying the 60% provision, only those demands created after the customer guarantees 100 kW minimum shall be considered. On-peak and off-peak hours are contained in Rule D3., Provisions Governing the Application of On-Peak and Off-Peak Rates.

(Continued on Sheet No. E-25.00)

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GENERAL SERVICE SECONDARY RATE C
(Continued From Sheet No. E-24.00)

Monthly Rate: (Contd)

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

Minimum Charge:

The capacity *kilowatt* charge plus the customer charge included in the rate.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Contract:

Service under this rate shall not require a written contract.

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GENERAL SERVICE PRIMARY RATE D

Availability:

Subject to any restrictions, this rate is available to any customer desiring primary voltage service for general use where the billing demand is 25 kW or more. This rate is not available for streetlighting service or for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

Where service is supplied at a nominal voltage of 25,000 volts or less, the customer shall furnish, install and maintain all necessary transforming, controlling and protective equipment.

Where the Company elects to measure the service at a nominal voltage above 25,000 volts, 1% shall be deducted, for billing purposes, from the demand and energy measurements thus made.

Where the Company elects to measure the service at a nominal voltage of less than 2,400 volts, 3% shall be added, for billing purposes, to the demand and energy measurements thus made.

Monthly Rate:

Customer Charge:

\$100.00 per customer per month, plus

Capacity Kilowatt Charge for Transmission Service:

On-Peak Billing Demand Charge:

Generation Charge:

\$6.88 per kW of On-Peak Billing Demand

Transmission Charge:

\$.60 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge

\$7.48 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge:

\$.52 per kW of Maximum Demand

Kilowatt-hour Charge for Transmission Service:

Generation Charge (Excludes Base Rate Adjustment):

On-Peak Period

\$.0250 per kWh for all kWh

Off-Peak Period

\$.0190 per kWh for all kWh

Distribution Charge:

\$.0028 per kWh for all kWh

\$.0028 per kWh for all kWh

Customer Related Charge:

\$.0001 per kWh for all kWh

\$.0001 per kWh for all kWh

Regulatory Adjustment Charge:

\$.0082 per kWh for all kWh

\$.0082 per kWh for all kWh

Total Kilowatt-hour Charge:

\$.0361 per kWh for all kWh

\$.0301 per kWh for all kWh

(Continued on Sheet No. E-26.10)

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GENERAL SERVICE PRIMARY RATE D

(Continued From Sheet No. E-26.00)

Monthly Rate: (Contd)

Capacity Kilowatt Charge for Subtransmission Service:

On-Peak Billing Demand Charge:

Generation Charge: \$6.85 per kW of On-Peak Billing Demand

Transmission Charge: \$.63 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$7.48 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$.97 per kW of Maximum Demand

Kilowatt-hour Charge for Subtransmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0251 per kWh for all kWh	\$.0191 per kWh for all kWh
Distribution Charge:	\$.0002 per kWh for all kWh	\$.0002 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0107 per kWh for all kWh	\$.0107 per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0361 per kWh for all kWh	\$.0301 per kWh for all kWh

Capacity Kilowatt Charge for Primary Service:

On-Peak Billing Demand Charge:

Generation Charge: \$6.68 per kW of On-Peak Billing Demand

Transmission Charge: \$.80 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$7.48 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$1.85 per kW of Maximum Demand

Kilowatt-hour Charge for Primary Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0328 per kWh for all kWh	\$.0268 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0032 per kWh for all kWh	\$.0032 per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0361 per kWh for all kWh	\$.0301 per kWh for all kWh

(Continued on Sheet No. E-27.00)

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D. W. Joos,
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GENERAL SERVICE PRIMARY RATE D
(Continued From Sheet No. E-26.10)

Monthly Rate: (Contd)

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Adjustment for Power Factor:

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor shall be determined through metering of lagging kilovar-hours and kilowatt-hours during the billing period. The calculated ratio of lagging kilovar-hours to kilowatt-hours shall then be converted to the average power factor for the billing period by using the appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .800, the capacity *kilowatt* charge shall be adjusted as follows:

- (a) If the average power factor during the billing period is .900 or higher, the capacity *kilowatt* charge shall be reduced by 2%. This credit shall not in any case be used to reduce the prescribed minimum charge or the capacity *kilowatt* charge when based upon 60% of the highest on-peak billing demand of the preceding billing months of June through September.
- (b) If the average power factor during the billing period is less than .800, the capacity *kilowatt* charge shall be increased by the ratio that .800 bears to the customer's average power factor during the billing period. The capacity *kilowatt* charge shall not be increased when the On-Peak Billing Demand is based on 60% of the highest on-peak billing demand of the preceding billing months of June through September or on a minimum billing demand.

Maximum Demand:

The maximum demand shall be the highest 15-minute demand created during the current month or previous 11 months.

(Continued on Sheet No. E-28.00)

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GENERAL SERVICE PRIMARY RATE D
(Continued From Sheet No. E-27.00)

Monthly Rate: (Contd)

On-Peak Billing Demand:

The on-peak billing demand shall be based on the highest on-peak demand created during the billing month, but never less than 60% of the highest on-peak billing demand of the preceding billing months of June through September, nor less than 25 kW.

The on-peak demand shall be the kilowatts (kW) supplied during the 15-minute period of maximum use during on-peak hours, as described in Rule D3., Provisions Governing the Application of On-Peak and Off-Peak Rates.

Substation Ownership Credit:

Where service is supplied at more than 25,000 volts through customer-owned equipment, a substation ownership credit may be applicable in accordance with Rule D5., Substation Ownership Credit.

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

Minimum Charge:

The capacity *kilowatt* charge plus the customer charge included in the rate.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Contract:

For customers with monthly demands of 300 kW or more, all service under this rate shall require a written contract with a minimum term of one year.

For customers with monthly demands of less than 300 kW, service under this rate may, at the Company's option, require a written contract with a minimum term of one year.

A new contract will not be required for existing customers who increase their demand requirements after initiating service unless new or additional facilities are required.

The Company may offer individual contract service pursuant to the provisions of this rate schedule at rates less than those provided above but not less than variable cost plus all mandatory charges imposed under General Service Direct Access Rate DA for those customers who have a maximum demand of 2,000 kW or more and are served at the transmission or subtransmission voltage level. An existing or future customer of another Michigan electric utility is not eligible to receive individual contract service. Any existing or future customer of another Michigan utility who switches service to Consumers Energy shall not be eligible to receive individual contract service for a period of three years from the date such customer switches service to Consumers Energy. The contracts shall be filed with the Commission for review and approval.

(Continued on Sheet No. E-29.00)

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D. W. Joos,
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GENERAL SERVICE PRIMARY HIGH LOAD FACTOR RATE F

Availability:

Subject to any restrictions, this rate is available to any customer desiring primary voltage service for general use where the billing demand is 100 kW or more. This rate is not available for streetlighting service or for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

Where service is supplied at a nominal voltage of 25,000 volts or less, the customer shall furnish, install and maintain all necessary transforming, controlling and protective equipment.

Where the Company elects to measure the service at a nominal voltage above 25,000 volts, 1% shall be deducted, for billing purposes, from the demand and energy measurements thus made.

Where the Company elects to measure the service at a nominal voltage of less than 2,400 volts, 3% shall be added, for billing purposes, to the demand and energy measurements thus made.

Monthly Rate:

Customer Charge:

\$100.00 per customer per month, plus

Capacity Kilowatt Charge for Transmission Service:

On-Peak Billing Demand Charge:

Generation Charge: \$ 9.40 per kW of On-Peak Billing Demand

Transmission Charge: \$.94 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$10.34 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$.52 per kW of Maximum Demand

Kilowatt-hour Charge for Transmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0262 per kWh for all kWh	\$.0202 per kWh for all kWh
Distribution Charge:	\$.0017 per kWh for all kWh	\$.0017 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0032 per kWh for all kWh	\$.0032 per kWh for all kWh

Total Kilowatt-hour Charge: \$.0312 per kWh for all kWh \$.0252 per kWh for all kWh

(Continued on Sheet No. E-37.10)

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GENERAL SERVICE PRIMARY HIGH LOAD FACTOR RATE F
(Continued From Sheet No. E-37.00)

Monthly Rate: (Contd)

Capacity Kilowatt Charge for Subtransmission Service:

On-Peak Billing Demand Charge:

Generation Charge: \$ 9.41 per kW of On-Peak Billing Demand
Transmission Charge: \$.93 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$10.34 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$.97 per kW of Maximum Demand

Kilowatt-hour Charge for Subtransmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0254 per kWh for all kWh	\$.0194 per kWh for all kWh
Distribution Charge:	\$.0010 per kWh for all kWh	\$.0010 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0047 per kWh for all kWh	\$.0047 per kWh for all kWh

Total Kilowatt-hour Charge: \$.0312 per kWh for all kWh \$.0252 per kWh for all kWh

Capacity Kilowatt Charge for Primary Service:

On-Peak Billing Demand Charge:

Generation Charge: \$ 9.20 per kW of On-Peak Billing Demand
Transmission Charge: \$ 1.14 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$10.34 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$1.85 per kW of Maximum Demand

Kilowatt-hour Charge for Primary Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0335 per kWh for all kWh	\$.0275 per kWh for all kWh
Distribution Charge:	\$.0018 per kWh for all kWh	\$.0018 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$ (.0042) per kWh for all kWh	\$ (.0042) per kWh for all kWh

Total Kilowatt-hour Charge: \$.0312 per kWh for all kWh \$.0252 per kWh for all kWh

(Continued on Sheet No. E-38.00)

Issued by
D. W. Joos,
President and Chief Executive Officer - Electric,
Jackson, Michigan

Effective:

Issued under authority of the
Michigan Public Service Commission
dated
in Case No.

GENERAL SERVICE PRIMARY HIGH LOAD FACTOR RATE F
(Continued From Sheet No. E-37.10)

Monthly Rate: (Contd)

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Adjustment for Power Factor:

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor shall be determined through metering of lagging kilovar-hours and kilowatt-hours during the billing period. The calculated ratio of lagging kilovar-hours to kilowatt-hours shall then be converted to the average power factor for the billing period by using the appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .800, the capacity *kilowatt* charge shall be adjusted as follows:

- (a) If the average power factor during the billing period is .900 or higher, the capacity *kilowatt* charge shall be reduced by 2%. This credit shall not in any case be used to reduce the prescribed minimum charge or the capacity *kilowatt* charge when based upon 60% of the highest on-peak billing demand of the preceding billing months of June through September.
- (b) If the average power factor during the billing period is less than .800, the capacity *kilowatt* charge shall be increased by the ratio that .800 bears to the customer's average power factor during the billing period. The capacity *kilowatt* charge shall not be increased when the On-Peak Billing Demand is based on 60% of the highest on-peak billing demand of the preceding billing months of June through September or on a minimum billing demand.

Maximum Demand:

The maximum demand shall be the highest 15-minute demand created during the current month or previous 11 months.

(Continued on Sheet No. E-39.00)

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GENERAL SERVICE PRIMARY HIGH LOAD FACTOR RATE F

(Continued From Sheet No. E-38.00)

Monthly Rate: (Contd)

On-Peak Billing Demand:

The on-peak billing demand shall be based on the highest on-peak demand created during the billing month, but never less than 60% of the highest on-peak billing demand of the preceding billing months of June through September, nor less than 100 kW.

The on-peak demand shall be the kilowatts (kW) supplied during the 15-minute period of maximum use during on-peak hours, as described in Rule D3., Provisions Governing the Application of On-Peak and Off-Peak Rates.

Substation Ownership Credit:

Where service is supplied at more than 25,000 volts through customer-owned equipment, a substation ownership credit may be applicable in accordance with Rule D5., Substation Ownership Credit.

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

Minimum Charge:

The capacity *kilowatt* charge plus the customer charge included in the rate.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Contract:

For customers with monthly demands of 300 kW or more, all service under this rate shall require a written contract with a minimum term of one year.

For customers with monthly demands of less than 300 kW, service under this rate may, at the Company's option, require a written contract with a minimum term of one year.

A new contract will not be required for existing customers who increase their demand requirements after initiating service unless new or additional facilities are required.

The Company may offer individual contract service pursuant to the provisions of this rate schedule at rates less than those provided above but not less than variable cost plus all mandatory charges imposed under General Service Direct Access Rate DA for those customers who have a maximum demand of 2,000 kW or more and are served at the transmission or subtransmission voltage level. An existing or future customer of another Michigan electric utility is not eligible to receive individual contract service. Any existing or future customer of another Michigan utility who switches service to Consumers Energy shall not be eligible to receive individual contract service for a period of three years from the date such customer switches service to Consumers Energy. The contracts shall be filed with the Commission for review and approval.

(Continued on Sheet No. E-40.00)

Issued by
D. W. Joos,
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**GENERAL SERVICE PRE-SCHEDULED PRIMARY HIGH LOAD FACTOR
INTERRUPTIBLE RATE F-1**
This Rate Is Not Open to New Business

Availability:

Subject to any restrictions, this rate is available to any Rate F customer desiring pre-scheduled 100 percent load factor service. Service under this rate is available at the sole discretion of the Company only when the Company has available generating capacity in excess of normal system requirements. Customers selecting Rate F-1 must agree to have both their Rate F and Rate F-1 billings made on a calendar month basis.

The customer must pre-schedule a minimum of 5,000 kW for a period of one week. Energy supplied under this rate shall not be used to replace or reduce the customer's normal use of electric service as supplied by the Company. Requests for pre-scheduled capacity shall be made no later than two working days before the beginning of the time period in which such capacity shall be utilized. The customer may request withdrawal of pre-scheduled capacity at any time upon notification to the Company.

Normally pre-scheduled capacity is arranged on a week-to-week basis. The Company reserves the right to review commitments for pre-scheduled capacity in excess of one week and to withdraw from such agreements if excess capacity is not available.

The Company shall endeavor to provide notice in advance of probable interruption and, if possible, a second notice of positive interruption; however, this service shall be interrupted immediately upon notice should the Company deem such action necessary.

Failure by a customer to comply with an interruption order of the Company shall be considered as unauthorized use. Demand and energy utilized during the interruption period shall not be deducted from Rate F for the purpose of calculating the billing determinants on that rate.

The Company shall not be liable for any loss or damage caused by or resulting from any interruption of service under this rate.

Interruptions beyond the Company's control, described in Rules B10.1, Character of Service, and B12., Emergency Electrical Procedures, of the Company's Electric Rate Schedule, shall not be considered as interruptions for purposes of this rate.

Should the Company be ordered by Governmental authority during a national emergency to supply firm instead of interruptible service, billing shall be made on Rate F.

This rate is not available for standby service, streetlighting service, resale purposes or for customers served by another regulated or nonregulated electric utility at the same location.

This rate is closed to new business on and after May 8, 1991.

Nature of Service:

Service shall be taken through the customers existing Rate F meter.

Monthly Rate:

Determination of kWh:

The kWh billed under this rate shall be determined by multiplying the pre-scheduled capacity (kW) by the number of hours scheduled.

Kilowatt-hour Charge:

\$0.0300 per kWh for all kWh

(Continued on Sheet No. E-42.00)

Issued by
D. W. Joos,
President and Chief Executive Officer - Electric,
Jackson, Michigan

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**GENERAL SERVICE PRE-SCHEDULED PRIMARY HIGH LOAD FACTOR
INTERRUPTIBLE RATE F-1**
(Continued From Sheet No. E-41.00)

Monthly Rate: (Contd)

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Adjustment for Power Factor (Rate F):

Rate F requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor shall be determined through metering of lagging kilovar-hours and kilowatt-hours of the service under this rate combined with the customer's Rate F service during the billing period.

Cost of Energy Adjustment:

Whenever the Company's cost of delivered energy per kWh, plus \$.0080 per kWh, is greater or less than \$.0300 per kWh, the *kilowatt-hour* charge shall be increased or decreased by the difference between the Company's actual cost of delivered energy per kWh, plus \$.0080 per kWh, and \$.0300 per kWh.

Cost of delivered energy shall be defined as the average hourly incremental power cost for the three consecutive months ending two calendar months prior to the calendar month during which the pre-scheduled capacity is delivered, as shown on the following schedule:

Three-Month Average Incremental Cost Period	Applied to Purchase in Calendar Month Of:
January, February, March	May
February, March, April	June
March, April, May	July
April, May, June	August
May, June, July	September
June, July, August	October
July, August, September	November
August, September, October	December
September, October, November	January
October, November, December	February
November, December, January	March
December, January, February	April

The average hourly incremental cost, calculated monthly, of delivered power, shall be equal to the actual incremental cost per kWh rounded to the nearest \$.0001, for all fossil-fueled steam, nuclear and combustion-turbine generating units and purchased and interchange power sources as delivered to the Company's load center.

(Continued on Sheet No. E-43.00)

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**GENERAL SERVICE PRE-SCHEDULED PRIMARY HIGH LOAD FACTOR
INTERRUPTIBLE RATE F-1**
(Continued From Sheet No. E-42.00)

Monthly Rate: (Contd)

Determination of Rate F Billing Demand:

Pre-scheduled capacity shall be subtracted from meter readings before calculation of billing determinants on Rate F. The current month Rate F on-peak billing demand shall not be less than the on-peak billing demand for the last full billing month preceding the use of pre-scheduled capacity.

Substation Ownership Credit (Rate F):

Pre-scheduled demands under this rate shall be subtracted from the metered kW demand before application of any substation ownership credit under the terms of the Rate F portion of the customer's service.

Minimum Charge:

The minimum charge shall be the calculated kWh times the kilowatt-hour charge plus the Cost of Energy Adjustment.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Commitment:

The customer shall supply the Company with a list of those individuals authorized to commit with the Company for week-to-week service under this rate. Upon agreement of the kW demand level and duration of the service, the customer shall promptly transmit to the Company two copies of such agreement, in a form acceptable to the Company, signed by an authorized representative. One copy shall be signed by an authorized Company representative and returned to the customer.

The Company may offer individual contract service pursuant to the provisions of this rate schedule at rates less than those provided above but not less than variable cost plus all mandatory charges imposed under General Service Direct Access Rate DA for those customers who have a maximum demand of 2,000 kW or more and are served at the transmission or subtransmission voltage level. An existing or future customer of another Michigan electric utility is not eligible to receive individual contract service. Any existing or future customer of another Michigan utility who switches service to Consumers Energy shall not be eligible to receive individual contract service for a period of three years from the date such customer switches service to Consumers Energy. The contracts shall be filed with the Commission for review and approval.

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Jackson, Michigan

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GENERAL SERVICE ELECTRIC HEATING RATE GH

Availability:

Subject to any restrictions, this rate is available to any general use customer desiring service for electric space heating furnished through a separate meter. No other device, except electric air-conditioning equipment or electric water heater(s) which complies with the Company's standards for commercial and industrial electric water heaters, may be connected to the meter. The customer must have permanently installed electric heating equipment as the primary source of space heating, with any other source of space heating only incidental to the total heating requirements of the premises to be served under this rate. Electric space heating shall be considered to include heating by light systems when the lighting equipment provides a major portion of the heating requirements in accordance with the Company's specifications. This rate is available in conjunction with Company-approved solar space heating and wind energy systems.

This rate is not available for heating water for industrial processing or for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

Where the Company elects to measure the service on the primary side of the transformers, 3% shall be deducted for billing purposes from the energy measurements thus made.

Monthly Rate:

Customer Charge:

\$7.00 per customer per month, plus

Kilowatt-hour Charge:

	Billing Months of October through May	Billing Months of June through September
Generation Charge (Excludes Base Rate Adjustment):	\$.0522 per kWh for all kWh	\$.0703 per kWh for all kWh
Transmission Charge:	\$.0023 per kWh for all kWh	\$.0023 per kWh for all kWh
Distribution Charge:	\$.0284 per kWh for all kWh	\$.0284 per kWh for all kWh
Customer Related Charge:	\$.0035 per kWh for all kWh	\$.0035 per kWh for all kWh
Regulatory Adjustment Charge:	\$(.0094) per kWh for all kWh	\$(.0094) per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0770 per kWh for all kWh	\$.0951 per kWh for all kWh

(Continued on Sheet No. E-45.00)

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GENERAL SERVICE WATER HEATING RATE H

Availability:

Subject to any restrictions, this rate is available to any general use customer desiring service for electric water heater(s) served through a separate meter to which no other device shall be connected. Such water heaters shall comply with the Company's standards for commercial and industrial electric water heaters. This rate is available for electric water heating systems used in conjunction with solar water heating systems and wind energy systems.

This rate is not applicable to the use of electricity for space heating service or as an occasional or seasonal substitute for another method of heating water. This rate is not available for heating water for industrial processing or for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the secondary distribution voltage in each case to be determined by the Company.

Monthly Rate:

Customer Charge:

\$7.00 per customer per month, plus

Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment):	\$.0502 per kWh for all kWh
Transmission Charge:	\$.0020 per kWh for all kWh
Distribution Charge:	\$.0302 per kWh for all kWh
Customer Related Charge:	\$.0104 per kWh for all kWh
Regulatory Adjustment Charge:	<u>\$(.0251)</u> per kWh for all kWh

Total Kilowatt-hour Charge: \$.0677 per kWh for all kWh

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

(Continued on Sheet No. E-47.00)

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GENERAL SERVICE PRIMARY INTERRUPTIBLE RATE I

(Continued From Sheet No. E-48.00)

Cost of Customer Non-Interruption:

Emergency-Purchase Interruption:

Customers who do not interrupt within one hour following notice of an emergency purchase interruption order shall be billed at the cost of replacement energy plus \$.01 per kWh during the time of interruption, but not less than the normal Rate I.

System-Integrity Interruption:

Failure by a customer to comply with a system integrity interruption order of the Company shall be considered as unauthorized use and billed at the rate of \$50.00 per kW for the highest 15-minute kW demand created during the interruption period, in addition to the prescribed monthly rate. Failure by the customer to comply with interruption notices on two occasions will result in the customer's removal from this rate.

Monthly Rate:

Customer Charge:

\$100.00 per customer per month, plus

Capacity Kilowatt Charge for Transmission Service:

Billing Demand Charge:

Negotiated with the Company. In no case shall this charge be discounted more than 60% from the General Service Primary Rate D On-Peak Billing Demand Charge.

Maximum Demand Charge:

Distribution Charge:

\$.52 per kW of Maximum Demand

Kilowatt-hour Charge for Transmission Service:

	<i>On-Peak Period</i>	<i>Off-Peak Period</i>
<i>Generation Charge (Excludes Base Rate Adjustment):</i>	<i>\$.0250 per kWh for all kWh</i>	<i>\$.0190 per kWh for all kWh</i>
<i>Distribution Charge:</i>	<i>\$.0028 per kWh for all kWh</i>	<i>\$.0028 per kWh for all kWh</i>
<i>Customer Related Charge:</i>	<i>\$.0001 per kWh for all kWh</i>	<i>\$.0001 per kWh for all kWh</i>
<i>Regulatory Adjustment Charge:</i>	<i>\$.0082 per kWh for all kWh</i>	<i>\$.0082 per kWh for all kWh</i>
<i>Total Kilowatt-hour Charge:</i>	<i>\$.0361 per kWh for all kWh</i>	<i>\$.0301 per kWh for all kWh</i>

(Continued on Sheet No. E-49.10)

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GENERAL SERVICE PRIMARY INTERRUPTIBLE RATE I
(Continued From Sheet No. E-49.00)

Monthly Rate: (Contd)

Capacity Kilowatt Charge for Subtransmission Service:

Billing Demand Charge:

Negotiated with the Company. In no case shall this charge be discounted more than 60% from the General Service Primary Rate D On-Peak Billing Demand Charge.

Maximum Demand Charge:

Distribution Charge: \$.97 per kW of Maximum Demand

Kilowatt-hour Charge for Subtransmission Service:

	<i>On-Peak Period</i>	<i>Off-Peak Period</i>
<i>Generation Charge (Excludes Base Rate Adjustment):</i>	<i>\$.0251 per kWh for all kWh</i>	<i>\$.0191 per kWh for all kWh</i>
<i>Distribution Charge:</i>	<i>\$.0002 per kWh for all kWh</i>	<i>\$.0002 per kWh for all kWh</i>
<i>Customer Related Charge:</i>	<i>\$.0001 per kWh for all kWh</i>	<i>\$.0001 per kWh for all kWh</i>
<i>Regulatory Adjustment Charge:</i>	<i>\$.0107 per kWh for all kWh</i>	<i>\$.0107 per kWh for all kWh</i>
Total Kilowatt-hour Charge:	\$.0361 per kWh for all kWh	\$.0301 per kWh for all kWh

Capacity Kilowatt Charge for Primary Service:

Billing Demand Charge:

Negotiated with the Company. In no case shall this charge be discounted more than 60% from the General Service Primary Rate D On-Peak Billing Demand Charge.

Maximum Demand Charge:

Distribution Charge: \$1.85 per kW of Maximum Demand

Kilowatt-hour Charge for Primary Service:

	<i>On-Peak Period</i>	<i>Off-Peak Period</i>
<i>Generation Charge (Excludes Base Rate Adjustment):</i>	<i>\$.0328 per kWh for all kWh</i>	<i>\$.0268 per kWh for all kWh</i>
<i>Customer Related Charge:</i>	<i>\$.0001 per kWh for all kWh</i>	<i>\$.0001 per kWh for all kWh</i>
<i>Regulatory Adjustment Charge:</i>	<i>\$.0032 per kWh for all kWh</i>	<i>\$.0032 per kWh for all kWh</i>
Total Kilowatt-hour Charge:	\$.0361 per kWh for all kWh	\$.0301 per kWh for all kWh

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

(Continued on Sheet No. E-50.00)

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GENERAL SERVICE PRIMARY INTERRUPTIBLE RATE I

(Continued From Sheet No. E-49.10)

Monthly Rate: (Contd)

Adjustment for Power Factor:

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor shall be determined through metering of lagging kilovar-hours and kilowatt-hours during the billing period. The calculated ratio of lagging kilovar-hours to kilowatt-hours shall then be converted to the average power factor for the billing period by using the appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .800, the capacity *kilowatt* charge shall be adjusted as follows:

- (a) If the average power factor during the billing period is .900 or higher, the capacity *kilowatt* charge shall be reduced by 2%. This credit shall not in any case be used to reduce the prescribed minimum charge or the capacity *kilowatt* charge when based upon 60% of the highest billing demand of the preceding billing months of June through September.
- (b) If the average power factor during the billing period is less than .800, the capacity *kilowatt* charge shall be increased by the ratio that .800 bears to the customer's average power factor during the billing period. The capacity *kilowatt* charge shall not be increased when the Billing Demand is based on 60% of the highest billing demand of the preceding billing months of June through September or on a minimum billing demand.

Billing Demand:

When the interruptible load is separately metered, the billing demand shall be the kilowatts (kW) supplied during the 15-minute period of maximum use in the billing month, but not less than 60% of the highest billing demand of the preceding billing months of June through September, nor less than 5,000 kW (or the minimum kW the Company chooses to offer).

When the interruptible load is not separately metered, the billing demand shall be the interruptible service contract capacity in kilowatts (kW).

Maximum Demand:

The maximum demand shall be the highest 15-minute demand created during the current month or previous 11 months.

Substation Ownership Credit:

Where service is supplied at more than 25,000 volts through customer-owned equipment, a substation ownership credit may be applicable in accordance with Rule D5., Substation Ownership Credit.

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

Minimum Charge:

The capacity *kilowatt* charge plus the customer charge included in the rate.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Contract:

All service under this rate shall require a written contract with a minimum term subject to negotiation.

(Continued on Sheet No. E-51.00)

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GENERAL SERVICE PRIMARY ELECTRIC FURNACE RATE J

Availability:

Subject to any restrictions, this rate is available to any customer desiring service for operation of electric furnaces for metal melting or the reduction of metallic ores, where the billing demand is 100 kW or more. This rate is applicable only to electric furnace use and the customer must provide a special circuit or circuits in order that the Company may install separate metering equipment for such furnace loads.

This rate is not available for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

The customer shall furnish, install and maintain all necessary furnace transformers or motor-generator sets and all necessary controlling and protective equipment for such transformers or motor-generator sets.

The furnace loads shall normally be metered at the supply voltage. However, when the Company elects to measure the service at a nominal voltage of less than 2,400 volts, 3% shall be added for billing purposes to the demand and energy measurements thus made.

Monthly Rate:

Customer Charge:

\$100.00 per customer per month, plus

Capacity Kilowatt Charge for Transmission Service:

On-Peak Billing Demand Charge:

Generation Charge:

\$5.21 per kW of On-Peak Billing Demand

Transmission Charge:

\$.48 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge

\$5.69 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge:

\$.33 per kW of Maximum Demand

Kilowatt-hour Charge for Transmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0273 per kWh for all kWh	\$.0213 per kWh for all kWh
Distribution Charge:	\$.0030 per kWh for all kWh	\$.0030 per kWh for all kWh
Customer Related Charge:	\$.0002 per kWh for all kWh	\$.0002 per kWh for all kWh
Regulatory Adjustment Charge:	<u>\$.0056</u> per kWh for all kWh	<u>\$.0056</u> per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0361 per kWh for all kWh	\$.0301 per kWh for all kWh

(Continued on Sheet No. E-54.10)

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GENERAL SERVICE PRIMARY ELECTRIC FURNACE RATE J

(Continued From Sheet No. E-54.00)

Monthly Rate: (Contd)

Capacity Kilowatt Charge for Subtransmission Service:

On-Peak Billing Demand Charge:

Generation Charge:

\$5.21 per kW of On-Peak Billing Demand

Transmission Charge:

\$.48 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge

\$5.69 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge:

\$.72 per kW of Maximum Demand

Kilowatt-hour Charge for Subtransmission Service:

Generation Charge (Excludes Base Rate Adjustment):

On-Peak Period

\$.0273 per kWh for all kWh

Off-Peak Period

\$.0213 per kWh for all kWh

Distribution Charge:

\$.0030 per kWh for all kWh

\$.0030 per kWh for all kWh

Customer Related Charge:

\$.0002 per kWh for all kWh

\$.0002 per kWh for all kWh

Regulatory Adjustment Charge:

\$.0056 per kWh for all kWh

\$.0056 per kWh for all kWh

Total Kilowatt-hour Charge:

\$.0361 per kWh for all kWh

\$.0301 per kWh for all kWh

Capacity Kilowatt Charge for Primary Service:

On-Peak Billing Demand Charge:

Generation Charge:

\$5.21 per kW of On-Peak Billing Demand

Transmission Charge:

\$.48 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge

\$5.69 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge:

\$.98 per kW of Maximum Demand

Kilowatt-hour Charge for Primary Service:

Generation Charge (Excludes Base Rate Adjustment):

On-Peak Period

\$.0274 per kWh for all kWh

Off-Peak Period

\$.0214 per kWh for all kWh

Distribution Charge:

\$.0020 per kWh for all kWh

\$.0020 per kWh for all kWh

Regulatory Adjustment Charge:

\$.0062 per kWh for all kWh

\$.0062 per kWh for all kWh

Total Kilowatt-hour Charge:

\$.0361 per kWh for all kWh

\$.0301 per kWh for all kWh

(Continued on Sheet No. E-55.00)

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GENERAL SERVICE PRIMARY ELECTRIC FURNACE RATE J

(Continued From Sheet No. E-54.10)

Monthly Rate: (Contd)

General Terms and Surcharges:

This rate is subject to all general terms and conditions shown on Sheet No. E-1.00, and surcharges shown on Sheet No. E-2.00.

Adjustment for Power Factor:

This rate requires a determination of the average power factor maintained by the customer during the billing period. Such average power factor shall be determined through metering of lagging kilovar-hours and kilowatt-hours during the billing period. The calculated ratio of lagging kilovar-hours to kilowatt-hours shall then be converted to the average power factor for the billing period by using the appropriate conversion factor. Whenever the average power factor during the billing period is above .899 or below .800, the capacity *kilowatt* charge shall be adjusted as follows:

- (a) If the average power factor during the billing period is .900 or higher, the capacity *kilowatt* charge shall be reduced by 2%. This credit shall not in any case be used to reduce the prescribed minimum charge or the capacity *kilowatt* charge when based upon 60% of the highest on-peak billing demand of the preceding billing months of June through September.
- (b) If the average power factor during the billing period is less than .800, the capacity *kilowatt* charge shall be increased by the ratio that .800 bears to the customer's average power factor during the billing period. The capacity *kilowatt* charge shall not be increased when the On-Peak Billing Demand is based on 60% of the highest on-peak billing demand of the preceding billing months of June through September or on a minimum billing demand.

Maximum Demand:

The maximum demand shall be the highest 15-minute demand created during the current month or previous 11 months.

(Continued on Sheet No. E-56.00)

Issued by
D. W. Joos,
President and Chief Executive Officer - Electric,
Jackson, Michigan
Commission

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dated
in Case No.

GENERAL SERVICE PRIMARY ELECTRIC FURNACE RATE J

(Continued From Sheet No. E-55.00)

Monthly Rate: (Contd)

On-Peak Billing Demand:

The on-peak billing demand shall be based on the highest on-peak demand created during the billing month, but never less than 60% of the highest on-peak billing demand of the preceding billing months of June through September, nor less than 100 kW.

The on-peak demand shall be the kilowatts (kW) supplied during the 15-minute period of maximum use during on-peak hours, as described in Rule D3., Provisions Governing the Application of On-Peak and Off-Peak Rates.

Substation Ownership Credit:

Where service is supplied at more than 25,000 volts through customer-owned equipment, a substation ownership credit may be applicable in accordance with Rule D5., Substation Ownership Credit.

Base Rate Adjustment:

This rate is subject to the Base Rate Adjustment shown on Sheet No. E-3.00.

Minimum Charge:

The capacity kilowatt charge plus the customer charge included in the rate.

Due Date and Late Payment Charge:

The due date of the customer bill shall be 21 days from the date of mailing. A late payment charge of 2% of the unpaid balance, net of taxes, shall be assessed to any bill which is not paid on or before the due date shown thereon.

Term and Form of Contract:

For customers with monthly demands of 300 kW or more, all service under this rate shall require a written contract with a minimum term of one year.

For customers with monthly demands of less than 300 kW, service under this rate may, at the Company's option, require a written contract with a minimum term of one year.

A new contract will not be required for existing customers who increase their demand requirements after initiating service unless new or additional facilities are required.

The Company may offer individual contract service pursuant to the provisions of this rate schedule at rates less than those provided above but not less than variable cost plus all mandatory charges imposed under General Service Direct Access Rate DA for those customers who have a maximum demand of 2,000 kW or more and are served at the transmission or subtransmission voltage level. An existing or future customer of another Michigan electric utility is not eligible to receive individual contract service. Any existing or future customer of another Michigan utility who switches service to Consumers Energy shall not be eligible to receive individual contract service for a period of three years from the date such customer switches service to Consumers Energy. The contracts shall be filed with the Commission for review and approval.

(Continued on Sheet No. E-57.00)

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GENERAL SERVICE ALTERNATIVE ELECTRIC METAL MELTING RATE J-1

Availability:

Subject to any restrictions, this rate is available to any customer desiring service for operation of electric furnaces for metal melting or the reduction of metallic ores, where the maximum demand is 100 kW or more. This rate is applicable only to electric furnace use and the customer must provide a special circuit or circuits in order that the Company may install separate metering equipment for such furnace loads.

This rate is not available for resale purposes.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, the particular nature of the voltage in each case to be determined by the Company.

The customer shall furnish, install and maintain all necessary furnace transformers or motor-generator sets and all necessary controlling and protective equipment for such transformers or motor-generator sets.

The furnace loads shall normally be metered at the supply voltage. However, when the Company elects to measure the service at a nominal voltage of less than 2,400 volts, 3% shall be added for billing purposes to the demand and energy measurements thus made.

Monthly Rate:

Customer Charge:

\$100.00 per customer per month, plus

Applicable to customers with monthly maximum demands of not less than 100 kW or more than 29,999 kW.

Kilowatt-hour Charge for Transmission Service:

	<i>For the First 100 Hours' Use of Maximum Demand</i>	<i>For the Excess</i>
Generation Charge (Excludes Base Rate Adjustment):	\$.0999 per kWh	\$.0511 per kWh for the excess
Transmission Charge:	\$.0040 per kWh	\$.0040 per kWh for the excess
Distribution Charge:	\$.0048 per kWh	\$.0048 per kWh for the excess
Customer Related Charge:	\$.0001 per kWh	\$.0001 per kWh for the excess
Regulatory Adjustment Charge:	\$ (.0285) per kWh	\$ (.0285) per kWh for the excess
Total Kilowatt-hour Charge:	\$.0803 per kWh	\$.0315 per kWh for the excess

Kilowatt-hour Charge for Subtransmission Service:

	<i>For the First 100 Hours' Use of Maximum Demand</i>	<i>For the Excess</i>
Generation Charge (Excludes Base Rate Adjustment):	\$.0571 per kWh	\$ (.0010) per kWh for the excess
Transmission Charge:	\$.0023 per kWh	\$.0023 per kWh for the excess
Distribution Charge:	\$.0027 per kWh	\$.0027 per kWh for the excess
Customer Related Charge:	\$.0001 per kWh	\$.0001 per kWh for the excess
Regulatory Adjustment Charge:	\$.0274 per kWh	\$.0274 per kWh for the excess
Total Kilowatt-hour Charge:	\$.0896 per kWh	\$.0315 per kWh for the excess

(Continued on Sheet No. E-58.10)

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