

GENERAL SERVICE ALTERNATIVE ELECTRIC METAL MELTING RATE J-1
(Continued From Sheet No. E-58.00)

Monthly Rate: (Contd)

Kilowatt-hour Charge for Primary 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	\$(.0157) 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:	<u>\$.0421</u> per kWh	<u>\$.0421</u> per kWh for the excess
Total Kilowatt-hour Charge:	\$.1043 per kWh	\$.0315 per kWh for the excess

Applicable to customers who have demonstrated monthly maximum demands of 30,000 kW or greater for 12 consecutive months.

Kilowatt-hour Charge for Transmission Service:

	<i>For the First 100 Hours' Use of Maximum Demand Or 30,000 kW, Whichever is Greater</i>	<i>For the Excess</i>
Generation Charge (Excludes Base Rate Adjustment):	\$.0416 per kWh	\$.0093 per kWh for the excess
Transmission Charge:	\$.0017 per kWh	\$.0017 per kWh for the excess
Distribution Charge:	\$.0020 per kWh	\$.0020 per kWh for the excess
Customer Related Charge:	\$.0001 per kWh	\$.0001 per kWh for the excess
Regulatory Adjustment Charge:	<u>\$.0174</u> per kWh	<u>\$.0174</u> per kWh for the excess
Total Kilowatt-hour Charge:	\$.0628 per kWh	\$.0305 per kWh for the excess

Kilowatt-hour Charge for Subtransmission Service:

	<i>For the First 100 Hours' Use of Maximum Demand Or 30,000 kW, Whichever is Greater</i>	<i>For the Excess</i>
Generation Charge (Excludes Base Rate Adjustment):	\$.0218 per kWh	\$(.0134) per kWh for the excess
Transmission Charge:	\$.0009 per kWh	\$.0009 per kWh for the excess
Distribution Charge:	\$.0010 per kWh	\$.0010 per kWh for the excess
Customer Related Charge:	\$.0001 per kWh	\$.0001 per kWh for the excess
Regulatory Adjustment Charge:	<u>\$.0419</u> per kWh	<u>\$.0419</u> per kWh for the excess
Total Kilowatt-hour Charge:	\$.0657 per kWh	\$.0305 per kWh for the excess

(Continued on Sheet No. E-59.00)

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

Effective:

Issued under authority of the
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dated
in Case No.

GENERAL SERVICE ALTERNATIVE ELECTRIC METAL MELTING RATE J-1

(Continued From Sheet No. E-58.10)

Monthly Rate: (Contd)

Kilowatt-hour Charge for Primary Service:

	For the First 100 Hours' Use of Maximum Demand Or 30,000 kW, Whichever is Greater	For the Excess
Generation Charge (Excludes Base Rate Adjustment):	\$.0218 per kWh	\$(0.0150) per kWh for the excess
Transmission Charge:	\$.0009 per kWh	\$.0009 per kWh for the excess
Distribution Charge:	\$.0010 per kWh	\$.0010 per kWh for the excess
Customer Related Charge:	\$.0001 per kWh	\$.0001 per kWh for the excess
Regulatory Adjustment Charge:	\$.0435 per kWh	\$.0435 per kWh for the excess
Total Kilowatt-hour Charge:	\$.0673 per kWh	\$.0305 per kWh for the excess

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 price per kWh for the first 100 hours' use of maximum demand, reduced by the price per kWh for the excess, shall be adjusted as follows:

- If the average power factor during the billing period is .900 or higher, the first block *total kilowatt-hour* charge, as adjusted, shall be reduced by 2%. This credit shall not in any case be used to reduce the prescribed minimum charge included in the rate.
- If the average power factor during the billing period is less than .800, the first block *total kilowatt-hour* charge, as adjusted, shall be increased by the ratio that .800 bears to the customer's average power factor during the billing period. This penalty shall not be used when billing is based on the minimum charge included in the rate.

The above adjustments shall not apply to Surcharges and Credits.

(Continued on Sheet No. E-60.00)

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GENERAL SERVICE ALTERNATIVE ELECTRIC METAL MELTING RATE J-1

(Continued From Sheet No. E-59.00)

Monthly Rate: (Contd)

Maximum Demand:

The maximum demand shall be the highest 15-minute demand created during the current month.

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 monthly minimum charge shall be equal to the initial block *total kilowatt-hour* charge times 25 hours' use of the billed maximum demand in the current month 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-61.00)

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**COGENERATION AND SMALL POWER
PRODUCTION PURCHASE RATE CG**
(Continued From Sheet No. E-63.00)

Optional Standby Rate:

An operator who otherwise would qualify under Rule D7., Auxiliary or Standby Service, may at the time the purchase contract is entered into, agree to contract for standby service for a minimum term of one year. A contracted maximum standby demand in kilowatts and, if applicable, a contracted maximum supplemental demand in kilowatts shall be initially established by mutual agreement for electrical capacity sufficient to meet the maximum requirements which the Company is expected to supply. Whenever the contracted maximum standby demand so established is exceeded by the creation of a greater actual maximum standby demand, then such greater maximum demand becomes the new contracted maximum standby demand. Where a bona fide change in the customer's load occurs during the term of a contract, the Company shall recontract for new contract demand levels, where appropriate. Standby service shall be billed at the rate specified below:

Customer Charge:

\$100.00 per customer per month, plus

Capacity Kilowatt Charge:

On-Peak Billing Demand Charge:

\$.39 per kW per day for the highest on-peak billing demand occurring each day in which standby service is utilized.

Maximum Demand Charge:

For Secondary and Primary Service:

\$1.85 per kW per month of contracted maximum standby demand

For Subtransmission Service:

\$.97 per kW per month of contracted maximum standby demand

For Transmission Service:

\$.52 per kW per month of contracted maximum standby demand

Kilowatt-hour Charge:

\$.0361 per kWh for all kWh consumed on-peak

\$.0301 per kWh for all kWh consumed off-peak

(Continued on Sheet No. E-65.00)

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GENERAL SERVICE ENERGY-ONLY STREETLIGHTING RATE L-1
(Continued From Sheet No. E-73.00)

Monthly Rate:

Secondary Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment): \$.0397 per kWh for all kWh
Transmission Charge: \$.0015 per kWh for all kWh
Distribution Charge: \$.0209 per kWh for all kWh
Customer Related Charge: \$.0006 per kWh for all kWh
Regulatory Adjustment Charge: ~~\$(0.031)~~ per kWh for all kWh

Total Kilowatt-hour Charge: \$.0596 per kWh for all kWh

The monthly charge shall be \$.0596 per kWh based on the capacity requirements in kilowatts of the lamp(s), associated ballast(s) and control equipment assuming 4,200 burning hours per year, adjusted by the ratio of the monthly kWh consumption to the total annual kWh consumption. At the Company's option, such service may be metered and the metered kWh used as the basis for billing. The capacity requirements of the lamp(s), associated ballast(s) and control equipment for each luminaire shall be determined by the Company from the specifications furnished by the manufacturers of such equipment, provided that the Company shall have the right to test such capacity requirements from time to time. In the event that said tests shall show capacity requirements different from those indicated by the manufacturers' specifications, the capacity requirements shown by said tests shall control. The customer shall not change the capacity requirements of the equipment owned by it without first notifying the Company in writing of such changes and the date that they shall be made.

For dusk to midnight service, the monthly charge per kWh shall be 130% of the monthly charge per kWh for secondary service. The annual kWh shall be based on the actual annual burning hours. The monthly kWh for billing shall be the annual kWh adjusted by the ratio of the monthly kWh consumption to the total annual kWh consumption.

Primary Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment): \$.0381 per kWh for all kWh
Transmission Charge: \$.0016 per kWh for all kWh
Distribution Charge: \$.0188 per kWh for all kWh
Customer Related Charge: \$.0054 per kWh for all kWh
Regulatory Adjustment Charge: ~~\$(0.126)~~ per kWh for all kWh

Total Kilowatt-hour Charge: \$.0513 per kWh for all kWh

The monthly charge shall be \$.0513 per kWh as metered.

(Continued on Sheet No. E-75.00)

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GENERAL SERVICE ENERGY-ONLY STREETLIGHTING RATE L-1
(Continued From Sheet No. E-74.00)

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.

Base Rate Adjustment:

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

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.

Special Terms and Conditions:

The Company reserves the right to make special contractual arrangements as to term or duration of contract, termination charges, contribution in aid of construction, annual charges or other special considerations when the customer requests service, equipment or facilities not normally provided under this rate.

Hours of Lighting:

Streetlights shall be controlled to burn only when the natural general level of illumination is lower than about 3/4 footcandle. Under normal conditions this is approximately one-half hour after sunset until approximately one-half hour before sunrise. For dusk to midnight service, luminaires shall be controlled to turn off anytime between 11:00 PM, Eastern standard time, and dawn. The turnoff time within a given municipality shall be the same at all locations.

Term and Form of Contract:

All service under this rate shall require a written contract with an initial term of five years or more.

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GENERAL SERVICE CUSTOMER-OWNED STREETLIGHTING RATE L-2

Availability:

Subject to any restrictions, this rate is available to any political subdivision or agency of the State of Michigan having jurisdiction over public streets or roadways, for streetlighting service where the Company has existing distribution lines available for supplying energy for such service.

Nature of Service:

Control equipment shall be furnished and owned by the Company. The customer shall furnish, install and own the rest of the equipment comprising the streetlighting system including, but not limited to, the overhead wires or underground cables between the luminaires and the supply circuits extending to the point of attachment with the Company's lines. All of the customer's equipment shall be subject to the Company's approval. The Company shall connect the customer's equipment to the Company's lines, supply the energy, control the burning hours of the lamps, provide normal replacement of luminaire glassware and lamps, and paint metal parts as needed; all other maintenance and replacement of the customer's equipment shall be paid for by the customer.

Facilities Policy:

At the customer's request, the Company shall install, at its own cost, its distribution facilities under this rate to the extent that the cost of such installation does not exceed three times the initial additional annual revenue to be derived from the installation. Costs of facilities in excess of the free allowance shall require an advance, nonrefundable, contribution in the amount by which the estimated costs exceed the free allowance.

Monthly Rate:

The charge per luminaire per month shall be:

Type of Luminaire	Nominal Rating of Lamps (One Lamp per Luminaire) ¹			Rate per Luminaire ³
	Watts	Ballast ²	Lumens	
Mercury Vapor ⁴	100	128	3,500	\$ 4.90
Mercury Vapor ⁴	175	209	7,500	6.00
Mercury Vapor ⁴	250	281	10,000	7.45
Mercury Vapor ⁴	400	458	20,000	11.05
Mercury Vapor ⁴	700	770	35,000	18.80
Mercury Vapor ⁴	1,000	1,080	50,000	26.85
High-Pressure Sodium ⁴	70	83	5,000	3.45
High-Pressure Sodium	100	117	8,500	4.00
High-Pressure Sodium	150	171	14,000	4.95
High-Pressure Sodium ⁴	200	247	20,000	7.20
High-Pressure Sodium	250	318	24,000	8.80
High-Pressure Sodium	400	480	45,000	12.20
Fluorescent ¹	380	470	20,000	12.20
Fluorescent ¹	640	680	35,000	17.55
Incandescent ²	202	202	2,500	7.35
Incandescent ²	305	305	4,000	8.15
Incandescent ²	405	405	6,000	9.55

¹Ratings for fluorescent lighting apply to all lamps in one luminaire.

²Watts including ballast used for monthly billing of the Base Rate Adjustment and surcharges.

³Rates apply to existing luminaires only and are not open to new business.

⁴Rates apply to existing luminaires only and are not open to new business except where the Company elects, at the customer's request, to install additional luminaires within an area already served by a mercury vapor streetlighting system.

⁵Rate per Luminaire represents a 45.2% Generation Charge, 1.9% Transmission Charge, 51.0% Distribution Charge and a 1.9% Customer Related Charge.

(Continued on Sheet No. E-77.00)

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GENERAL SERVICE COMPANY-OWNED STREETLIGHTING RATE L-3
(Continued From Sheet No. E-79.00)

Facilities Policy: (Contd)

- F. For streetlight systems installed underground (exclusive of subdivisions where the developer's contribution provided for underground streetlighting), the customer shall be required to contribute the estimated difference in cost between the equivalent standard overhead construction and required underground construction. No contribution shall be required for that footage of streetlighting cable which can be satisfactorily installed in underground conduit furnished by the customer for the Company's use and in accordance with the Company's specification.
- G. For system-wide conversions from one light source to another, the customer may be limited to an annual quota as determined by the Company.
- H. If underground streetlighting cable is requested, except that requested in conjunction with the Company's residential underground electric distribution policy, the customer shall contribute to the Company the difference between the Company's estimated installed costs of the underground streetlighting cable and the Company's estimated installed costs of standard overhead streetlighting conductors.

Monthly Rate:

The charge per luminaire per month shall be:

Type of Luminaire	Nominal Rating of Lamps (One Lamp per Luminaire) ¹				Rate per Luminaire ⁵
	Watts	Watts Including Ballast ²	Lumens		
Mercury Vapor ³	100	128	3,500		\$ 7.85
Mercury Vapor ⁴	175	209	7,500		9.60
Mercury Vapor ⁴	250	281	10,000		10.90
Mercury Vapor ⁴	400	458	20,000		15.85
Mercury Vapor ³	700	770	35,000		21.25
Mercury Vapor ¹	1,000	1,080	50,000		29.50
High-Pressure Sodium ³	70	83	5,000		8.05
High-Pressure Sodium	100	117	8,500		8.90
High-Pressure Sodium	150	171	14,000		10.55
High-Pressure Sodium ¹	200	247	20,000		14.20
High-Pressure Sodium	250	318	24,000		15.60
High-Pressure Sodium	400	480	45,000		24.60
Fluorescent ³	380	470	20,000		12.70
Incandescent ¹	202	202	2,500		8.60
Incandescent ¹	405	405	6,000		9.75
Incandescent ¹	690	690	10,000		14.45

¹Ratings for fluorescent lighting apply to all lamps in one luminaire.

²Watts including ballast used for monthly billing of the Base Rate Adjustment and surcharges.

³Rates apply to existing luminaires only and are not open to new business.

⁴Rates apply to existing luminaires only and are not open to new business except where the Company elects, at the customer's request, to install additional luminaires within an area already served by a mercury vapor streetlighting system.

⁵Rate per Luminaire represents a 26.5% Generation Charge, 0.9% Transmission Charge, 72.1% Distribution Charge and a 0.5% Customer Related Charge.

(Continued on Sheet No. E-81.00)

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GENERAL SERVICE OUTDOOR LIGHTING RATE L-4

Availability:

Subject to any restrictions, this rate is available to any farm or nonresidential customer who requests service for Outdoor Lighting in areas where the Company's streetlighting service rates are not applicable.

This service is limited to a maximum of 10 high-pressure sodium luminaires per customer premises. The minimum period for service under this rate is 36 months for service which begins on or after September 15, 1989.

Nature of Service:

Luminaires and control equipment shall be furnished, owned, installed and maintained by the Company. Luminaires shall be installed on Company-owned or Company-leased poles and must be accessible to the Company's construction and maintenance equipment. The installation of all new, standard streetlights shall require a customer contribution of \$100 per luminaire.

When service is terminated, within 36 months after installation, by a customer taking service on or after September 15, 1989, the customer shall pay the cost of removing any Company-installed equipment or the amount which the customer would have paid if service had continued for 36 months, whichever is less.

Monthly Rate:

Type of Luminaires	Nominal Rating of Lamps (One Lamp per Luminaire)			Rate per Luminaire per Month ³	
	Watts	Watts		Existing Pole	New Pole
		Including Ballast ¹	Lumens		
High-Pressure Sodium ²	100	117	8,500	\$10.15	\$15.40
High-Pressure Sodium	150	171	14,000	11.55	16.80
High-Pressure Sodium	250	318	24,000	16.00	21.25
High-Pressure Sodium	400	480	45,000	19.45	24.70

¹Watts including ballast used for monthly billing of the Base Rate Adjustment and surcharges.

²Closed to new business.

³Rate per Luminaire represents an 18.7% Generation Charge, 0.7% Transmission Charge, 27.3% Distribution Charge and a 53.3% Customer Related Charge.

(Continued on Sheet No. E-84.00)

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GENERAL SERVICE SECONDARY PUBLIC PUMPING RATE PS-1

Availability:

Subject to any restrictions, this rate is available to any political subdivision or agency of the State of Michigan, either acting separately or in combinations permitted under the laws of this state for secondary voltage service for public potable water pumping and/or waste water system(s). Public pumping customers may elect, on an annual basis, to take service at any location on this rate or any general service rate of the Company that is on file with the Michigan Public Service Commission.

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.

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:

\$7.30 per month per service location, plus

Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment):	\$.0503 per kWh for all kWh
Transmission Charge:	\$.0021 per kWh for all kWh
Distribution Charge:	\$.0171 per kWh for all kWh
Customer Related Charge:	\$.0053 per kWh for all kWh
Regulatory Adjustment Charge:	<u>\$(.0048)</u> per kWh for all kWh
Total Kilowatt-hour Charge:	\$.0700 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-88.00)

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GENERAL SERVICE PRIMARY PUBLIC PUMPING RATE PS-2

Availability:

Subject to any restrictions, this rate is available to any political subdivision or agency of the State of Michigan, either acting separately or in combinations permitted under the laws of this state, for primary voltage service for public potable water pumping and/or waste water system(s). Municipal pumping customers may elect, on an annual basis, to take service at any location on this rate or any general service rate of the Company that is on file with the Michigan Public Service Commission.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, 2,400 nominal volts or more, the particular nature of the supply 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 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.

Monthly Rate:

Customer Charge:

\$14.20 per month per service location, plus

Kilowatt-hour Charge:

Generation Charge (Excludes Base Rate Adjustment):	\$.0488 per kWh for all kWh
Transmission Charge:	\$.0020 per kWh for all kWh
Distribution Charge:	\$.0109 per kWh for all kWh
Customer Related Charge:	\$.0024 per kWh for all kWh
Regulatory Adjustment Charge:	\$(0.044) per kWh for all kWh

Total Kilowatt-hour Charge: \$.0597 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-90.00)

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GENERAL SERVICE OPTIONAL PRIMARY PUBLIC PUMPING RATE PS-3

Availability:

Subject to any restrictions, this rate is available to any political subdivision or agency of the State of Michigan, either acting separately or in combinations permitted under the laws of this state, for primary voltage service for potable water pumping and/or waste water system(s). Primary municipal customers may elect, on an annual basis, to receive service on this rate, at any location with a minimum monthly demand of 25 kW.

Nature of Service:

Alternating current, 60-hertz, single-phase or three-phase, 2,400 nominal volts or more, the particular nature of the supply 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 energy and demand 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 and demand 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:

\$6.82 per kW of On-Peak Billing Demand

Transmission Charge:

\$.76 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge

\$7.58 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge:

\$.96 per kW of Maximum Demand

Kilowatt-hour Charge for Transmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0280 per kWh for all kWh	\$.0220 per kWh for all kWh
Distribution Charge:	\$.0022 per kWh for all kWh	\$.0022 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	<u>\$.0009</u> per kWh for all kWh	<u>\$.0009</u> 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-91.10)

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GENERAL SERVICE OPTIONAL PRIMARY PUBLIC PUMPING RATE PS-3

(Continued From Sheet No. E-91.00)

Monthly Rate: (Contd)

Capacity Kilowatt Charge for Subtransmission Service:

On-Peak Billing Demand Charge:

Generation Charge: \$6.77 per kW of On-Peak Billing Demand
Transmission Charge: \$.81 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$7.58 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$1.73 per kW of Maximum Demand

Kilowatt-hour Charge for Subtransmission Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0299 per kWh for all kWh	\$.0239 per kWh for all kWh
Distribution Charge:	\$.0003 per kWh for all kWh	\$.0003 per kWh for all kWh
Customer Related Charge:	\$.0001 per kWh for all kWh	\$.0001 per kWh for all kWh
Regulatory Adjustment Charge:	\$.0009 per kWh for all kWh	\$.0009 per kWh for all kWh

Total Kilowatt-hour Charge: \$.0312 per kWh for all kWh \$0.0252 per kWh for all kWh

Capacity Kilowatt Charge for Primary Service:

On-Peak Billing Demand Charge:

Generation Charge: \$6.73 per kW of On-Peak Billing Demand
Transmission Charge: \$.82 per kW of On-Peak Billing Demand

Total On-Peak Billing Demand Charge \$7.58 per kW of On-Peak Billing Demand, plus

Maximum Demand Charge:

Distribution Charge: \$1.95 per kW of Maximum Demand

Kilowatt-hour Charge for Primary Service:

	On-Peak Period	Off-Peak Period
Generation Charge (Excludes Base Rate Adjustment):	\$.0302 per kWh for all kWh	\$.0242 per kWh for all kWh
Distribution Charge:	\$.0006 per kWh for all kWh	\$.0006 per kWh for all kWh
Customer Related Charge:	\$.0005 per kWh for all kWh	\$.0005 per kWh for all kWh
Regulatory Adjustment Charge:	\$(0.0001) per kWh for all kWh	\$(0.0001) 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-92.00)

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D. W. Joos,
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GENERAL SERVICE OPTIONAL PRIMARY PUBLIC PUMPING RATE PS-3

(Continued From Sheet No. E-91.10)

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 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-93.00)

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GENERAL SERVICE OPTIONAL PRIMARY PUBLIC PUMPING RATE PS-3
(Continued From Sheet No. E-92.00)

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.

(Continued on Sheet No. E-94.00)

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GENERAL SERVICE SECONDARY RESALE RATE R-1

Availability:

Subject to any restrictions, this rate is available to customers desiring secondary voltage service for resale purposes in accordance with Rule B13.4, Resale. This rate is not available for standby service or for resale for streetlighting service. This rate is closed to new or expanded service for resale to residential customers.

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):	\$0.0586 per kWh for all kWh
Transmission Charge:	\$0.0029 per kWh for all kWh
Distribution Charge:	\$0.0154 per kWh for all kWh
Customer Related Charge:	\$0.0014 per kWh for all kWh
Regulatory Adjustment Charge:	<u>\$0.0140</u> per kWh for all kWh

Total Kilowatt-hour Charge: \$0.0923 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-96.00)

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GENERAL SERVICE SECONDARY RESALE RATE R-2

Availability:

Subject to any restrictions, this rate is available to customers desiring secondary voltage service for resale purposes in accordance with Rule B13.4, Resale, where the billing demand is 5 kW or more. This rate is not available for standby service or for resale for streetlighting service. This rate is closed to new or expanded service for resale to residential customers.

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:

\$10.40 per kW for all kW of billing demand

Transmission Charge:

\$ 1.00 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):	\$.0305 per kWh	\$.0256 per kWh for the excess
Distribution Charge:	\$.0162 per kWh	\$.0162 per kWh for the excess
Customer Related Charge:	\$.0011 per kWh	\$.0011 per kWh for the excess
Regulatory Adjustment Charge:	\$(.0080) per kWh	\$(.0080) per kWh for the excess
Total Kilowatt-hour Charge:	\$.0398 per kWh	\$.0349 per kWh for the excess

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-98.00)

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GENERAL SERVICE SECONDARY RESALE RATE R-2

(Continued From Sheet No. E-97.00)

Monthly Rate: (Contd)

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.

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 of one year.

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GENERAL SERVICE PRIMARY RESALE RATE R-3

Availability:

Subject to any restrictions, this rate is available to customers desiring primary voltage service for resale purposes in accordance with Rule B13.4, Resale, where the on-peak billing demand is 25 kW or more. This rate is not available for standby service or for resale for streetlighting service. This rate is closed to new or expanded service for resale to residential customers.

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-99.10)

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GENERAL SERVICE PRIMARY RESALE RATE R-3

(Continued From Sheet No. E-99.00)

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:

\$6.49 per kW of On-Peak Billing Demand

Transmission Charge:

\$.92 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):

\$.0374 per kWh for all kWh

\$.0314 per kWh for all kWh

Distribution Charge:

\$.0008 per kWh for all kWh

\$.0008 per kWh for all kWh

Customer Related Charge:

\$.0002 per kWh for all kWh

\$.0002 per kWh for all kWh

Regulatory Adjustment Charge:

\$ (.0023) per kWh for all kWh

\$ (.0023) 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-100.00)

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GENERAL SERVICE PRIMARY RESALE RATE R-3
(Continued From Sheet No. E-99.10)

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-101.00)

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GENERAL SERVICE PRIMARY RESALE RATE R-3
(Continued From Sheet No. E-100.00)

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:

All service under this rate shall require a written contract with a minimum term of one year.

(Continued on Sheet No. E-102.00)

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GENERAL SERVICE UNMETERED RATE UR

Availability:

Subject to any restrictions, this rate is available to the US Government, any political subdivision or agency of the State of Michigan, and any public or private school district for filament and/or gaseous discharge lamp installations maintained for traffic regulation or guidance, as distinguished from street illumination and police signal systems. This rate is also available to Community Antenna Television Service Companies (CATV) for unmetered Power Supply Units. Where the Company's total investment to serve an individual location exceeds three times the annual revenue to be derived from such location, a contribution to the Company shall be required for the excess.

Nature of Service:

Customer furnishes and installs all fixtures, lamps, ballasts, controls, amplifiers and other equipment, including wiring to point of connection with Company's overhead or underground system, as directed by the Company. Company furnishes and installs, where required for center suspended overhead traffic light signals, messenger cable and supporting wood poles and also makes final connections to its lines. If, in the Company's opinion, the installation of wood poles for traffic lights is not practical, the customer shall furnish, install and maintain suitable supports other than wood poles. The customer shall maintain the equipment, including lamp renewals, and the Company shall supply the energy for the operation of the equipment. Conversion and/or relocation costs of existing facilities shall be paid for by the customer except when initiated by the Company.

Monthly Rate:

Customer Charge:

\$1.70 per bill per month, plus

Kilowatt-hour Charge:

<i>Generation Charge (Excludes Base Rate Adjustment):</i>	<i>\$.0451 per kWh for all kWh</i>
<i>Transmission Charge:</i>	<i>\$.0017 per kWh for all kWh</i>
<i>Distribution Charge:</i>	<i>\$.0105 per kWh for all kWh</i>
<i>Customer Related Charge:</i>	<i>\$.0004 per kWh for all kWh</i>
<i>Regulatory Adjustment Charge:</i>	<i>\$(.0032) per kWh for all kWh</i>
Total Kilowatt-hour Charge:	\$.0545 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.

Determination of kWh:

Monthly kWh shall be determined by multiplying the total connected load in kW (including the lamps, ballasts, transformers, amplifiers, and control devices) times 730 hours. The kWh for cyclical devices shall be 50% of the total kWh so calculated. The kWh for continuous, nonintermittent devices shall be 100% of the total kWh so calculated. No reduction in kWh shall be made for devices not operated 24 hours per day, or not operated every day.

The kWh of devices used for the control of school traffic, and operated not more than six hours per day during the school year only, shall be 10% of the continuous or cyclical kWh calculated.

The kWh for CATV Power Supply Units shall be 50% of the total kWh as determined from the manufacturer's rated input capacity of the Power Supply Units or the actual test load, whichever is greater.

The Company may, at its option, install test meters for the purpose of determining the monthly kWh usage to be used for billing purposes.

(Continued on Sheet No. E-104.00)

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