
RATE SCHEDULE NO. D1

RESIDENTIAL SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service for all residential purposes through one meter to a single or double occupancy dwelling unit including farm dwellings. A dwelling unit consists of a kitchen, bathroom, and heating facilities connected on a permanent basis. Service to appurtenant buildings may be taken on the same meter.

This rate is not available for common areas of separately metered apartments and condominium complexes, nor to a separate meter which serves a garage, boat well or other non-dwelling applications.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four-wire, Y connected service may be had at 208Y/120 volts nominally.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire service may be taken.

RATE PER DAY:

Full Service Customers:

Power Supply Charges:

Energy Charges: **6.912¢** per kWh for the first 17 kWh per day
 8.257¢ per kWh for excess over 17 kWh per day

Delivery Charges:

Service Charge: \$6.00 per month
Distribution Charge: **5.003¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8. Applies only to actual consumption and not to the minimum charge.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$6.00 per month
Distribution Charge: **5.003¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8. Applies only to actual consumption and not to the minimum charge.

(Continued on [Sheet No. D-2.00](#))

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(Continued from [Sheet No. D-1.00](#))

RATE SCHEDULE NO. D1 (CONTD)

RESIDENTIAL SERVICE RATE

BILLING FREQUENCY: Based on a nominal 30-day month. See Section C4.5.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

CONTRACT TERM: Open order, terminable on three days' notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

LATE PAYMENT CHARGE: See Section C4.8.

INTERRUPTIBLE SPACE-CONDITIONING PROVISION: Rate D1.1 is available on an optional basis.

SUPPLEMENTAL SPACE HEATING PROVISION: Rate D1.5 is available on an optional basis.

WATER HEATING SERVICE: Water heating service is available on an optional basis. See Schedule Designation No. D5.

INCOME ASSISTANCE SERVICE PROVISION (RIA): When service is supplied to a Principal Residence Customer, where the household receives a Home Heating Credit (HHC) in the State of Michigan, a credit shall be applied during all billing months. For an income assistance customer to qualify for this credit, the Company shall require annual evidence of the HHC energy draft or warrant. The customer may also qualify for this credit upon confirmation by an authorized State or Federal agency verifying that the customer's total household income does not exceed 150% of the poverty level as published by the United States department of health and human services or if the customer receives any of the following: i) Assistance from a state emergency relief program; ii) Food stamps or iii) Medicaid.

The monthly credit for the residential Income Assistance Service Provision shall be applied as follows:

Delivery Charges: These charges are applicable to Full Service and Retail Open Access customers.

Income Assistance Credit: \$(6.00) per customer per month

AUXILIARY POWER PROVISION: Residential customers desiring electric service as an auxiliary source of power for wind or solar powered generating equipment shall take service under this rate schedule under special agreement with the Company.

Parallel operation of private electric generation is not permitted except by written permission of the Company.

The customer having auxiliary power shall pay all direct costs of controlling and protective equipment necessitated by the presence of a source of power on his premises.

The customer shall pay the charges set forth above. The customer may elect to sell energy back to the Company at the rate of 3.1¢ per kWh delivered.

Customers selling energy to the Company shall pay a service charge of 12.4¢ per day in addition to their standard daily billing.

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HOLD FOR FUTURE USE

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RATE SCHEDULE NO. D1.1

INTERRUPTIBLE SPACE-CONDITIONING SERVICE RATE

AVAILABILITY OF SERVICE: Available on an optional basis to Residential and Commercial customers desiring separately metered interruptible service for central air conditioning and/or central heat pump use. Customers who have more than one heat pump and/or air-conditioning unit which serves their business or home, will not be permitted to have only a portion of their load on the rate, all units will be interrupted upon the signal from the Company. Installations must conform with the Company's specifications. This rate is not available to commercial customers being billed on a demand rate.

HOURS OF SERVICE: 24 hours.

HOURS OF INTERRUPTION: Central air-conditioning and/or heat pump units only will be turned off by the Company by remote control on selected days for intervals of no longer than thirty minutes in any hour for no more than eight hours in any one day. Company interruptions may include interruptions for, but not limited to maintaining system integrity, making an emergency purchase, economic reasons, or when available system generation is insufficient to meet anticipated system load.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four wire, Y connected service may be had at 208Y/120 volts nominally.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire service may be taken.

RATE PER MONTH: For separately metered space-conditioning service.

Full Service Customers:

Residential Power Supply Charges:

Energy Charge (June through October): **5.989¢** per kWh for all kWh
Energy Charge (November through May): **3.796¢** per kWh for all kWh

Residential Delivery Charges:

Service Charge (June through October): \$1.95 per month
Distribution Charge (Year-round): **5.379¢** per kWh for all kWh

Commercial Power Supply Charges:

Energy Charge (June through October): **7.300¢** per kWh for all kWh
Energy Charge (November through May): **4.800¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge (June through October): \$1.95 per month
Distribution Charge (Year-round): **2.410¢** per kWh for all kWh

(Continued on [Sheet No. D-5.00](#))

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(Continued from [Sheet No. D-4.00](#))

RATE SCHEDULE NO. D1.1 (CONTD) INTERRUPTIBLE SPACE-CONDITIONING SERVICE RATE

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8. Applies only to actual consumption and not to the minimum charge.

Retail Access Service Customers:

Residential Delivery Charges:

Service Charge June through October): \$1.95 per month
Distribution Charge (Year-round): **5.379¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge June through October): \$1.95 per month
Distribution Charge (Year-round): **2.140¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8. Applies only to actual consumption and not to the minimum charge.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

CONTRACT TERM: Open order, terminable on three days' written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE NO. D1.2

RESIDENTIAL TIME-OF-DAY SERVICE RATE

AVAILABILITY OF SERVICE: Available on an optional basis to customers whose previous twelve months average usage is equal to or greater than 750 kWh/month, or less at the option of the Company, and desires time of day service for their residential dwelling. Customers who select this rate must qualify for the Residential Service rate D1. This rate is available to no more than 10,000 customers per year.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge (June through October):

12.371¢ per kWh for all On-peak kWh

4.165¢ per kWh for all Off-peak kWh

Energy Charge (November through May):

10.451¢ per kWh for all On-peak kWh

4.002¢ per kWh for all Off-peak kWh

On-Peak Hours: All kWh used between 1100 and 1900 hours Monday through Friday.

Off-Peak Hours: All other kWh used.

Delivery Charges:

Service Charge: \$19.00 per month

Distribution Charge: 6.238¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$19.00 per month

Distribution Charge: 6.238¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

(Continued on [Sheet No. D-7.00](#))

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(Continued from [Sheet No. D-6.00](#))

RATE SCHEDULE NO. D1.2 (CONTD)

RESIDENTIAL TIME-OF-DAY SERVICE RATE

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge *plus any applicable per meter per month surcharges.*

CONTRACT TERM: Commencing upon installation of the Time-of-Day meter, service will be provided for twelve continuous months thereafter, with termination upon mutual consent of the Company and the customer.

WATER HEATING SERVICE: Water heating service is available on an optional basis except that Option II--Combined Meter--Controlled is not available.

INTERRUPTIBLE SPACE CONDITIONING PROVISION: Rate D1.1 is available on an optional basis.

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RATE SCHEDULE NO. D1.3

SENIOR CITIZEN RESIDENTIAL SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service for all residential purposes through one meter to a single occupancy or individual dwelling unit including farm dwellings. To qualify for this rate, the customer must be at least 62 years of age and head of the household. As a condition of service under this rate, a customer must agree to permit the Company to control some of his appliances, if and when the Company implements such control equipment. Customers with electric water heaters must receive service under Controlled Water Heating Rate D5. Residential appliances subject to control may be central air-conditioning, dishwashers and electric clothes dryers. The exact nature and conditions of control of devices, however, shall be those authorized by the Commission pursuant to a subsequent hearings procedure.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four-wire, Y connected service may be had at 208Y/120 volts nominally.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volt three-wire service may be taken.

RATE PER DAY:

Full Service Customers:

Power Supply Charges:

Energy Charges:

4.735¢ per kWh for the first 10 kWh per day

14.518¢ per kWh for excess over 10 kWh per day

Delivery Charges:

Service Charge \$6.00 per month

Distribution Charge: 1.971¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8. Applies only to actual consumption and not to the minimum charge.

Retail Access Service Customers:

Delivery Charges:

Service Charge \$6.00 per month

Distribution Charge: 1.971¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8. Applies only to actual consumption and not to the minimum charge.

SPACE HEATING PROVISION: For customers in which all of the space heating is supplied by electric service through the same meter and is installed on a permanent basis, usage in excess of 10 kWh per day for the billing months of November through May shall be billed a Power Supply charge of 5.945¢ per kWh and a Distribution charge of 4.291¢ per kWh.

(Continued on [Sheet No. D-9.00](#))

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(Continued from [Sheet No. D-8.00](#))

RATE SCHEDULE NO. D1.3 (CONTD)

SENIOR CITIZEN RESIDENTIAL SERVICE RATE

BILLING FREQUENCY: Based on a nominal 30-day month. See Section C4.5.

MINIMUM CHARGE: The Service Charge *plus any applicable per meter per month surcharges.*

CONTRACT TERM: The customer shall contract to remain on this rate for at least 12 months. Terminable on three days' notice after initial 12 months by either party. Where special services are required, the term will be specified in the applicable contract rider.

WATER HEATING SERVICE: See Schedule Designation No. D5.

INTERRUPTIBLE SPACE-CONDITIONING PROVISION: Rate D1.1 is available on an optional basis.

SUPPLEMENTAL SPACE HEATING PROVISION: Rate D1.5 is available on an optional basis.

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RATE SCHEDULE NO. D1.4

**OPTIONAL RESIDENTIAL SERVICE RATE
(TIME-OF-DAY FARM AND SPACE HEATING RATE)**

AVAILABILITY OF SERVICE: Available to customers for full time farm and/or space heating use for individual single family dwellings, or separately metered apartments and in the usual appurtenant buildings served through the residential meters. The customer must contract to receive service under this rate for a minimum of 12 months.

This rate is available only to installations being served on this rate prior to January 22, 1994.

CURRENT, PHASE AND VOLTAGE: Same as Residential Space Heating Rate D2.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge:

On-Peak kWh: 7.670¢ per kWh for all kWh

Off-Peak kWh: 4.271¢ per kWh for all kWh

On-Peak: All kWh used between 1100 and 1900 hours Monday through Friday.

Off-Peak: All other kWh used.

Delivery Charges:

Service Charge: \$6.51 per month

Distribution Charge: 5.610¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$6.51 per month

Distribution Charge: 5.610¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

(Continued on [Sheet No. D-11.00](#))

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(Continued from [Sheet No. D-10.00](#))

RATE SCHEDULE NO. D1.4 (CONTD)

OPTIONAL RESIDENTIAL SERVICE RATE
(TIME-OF-DAY FARM AND SPACE HEATING RATE)

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge *plus any applicable per meter per month surcharges.*

CONTRACT TERM: The customer shall contract to remain on this rate for at least 12 months. Terminable on three days' notice after initial 12 months by either party. Where special services are required, the term will be specified on the applicable contract rider.

WATER HEATING SERVICE: Customers with electric water heating can take water heating service under either Option I or Option III of Water Heating Service Rate D5.

INSULATION STANDARDS FOR ELECTRIC HEATING: See Section C4.9.

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RATE SCHEDULE NO. D1.5 RESIDENTIAL SUPPLEMENTAL SPACE HEATING SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service for Supplemental Electric Space Heating for that portion of the home which is heated with permanently installed separately metered electric space heating unit(s) totaling 3 kW or more. This rate is not available for heat pumps.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four-wire, Y connected service may be had at 208Y/120 volts nominally.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volt three-wire service may be taken.

RATE PER MONTH: For separately metered supplemental space heating service.

Full Service Customers:

Power Supply Charges:

Energy Charge: **4.918¢** per kWh for all kWh

Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **5.642¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **5.642¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge.

CONTRACT TERM: Open order, terminable on three days' written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE NO. D1.7

**SPACE CONDITIONING, WATER HEATING
TIME-OF-DAY RATE**

AVAILABILITY OF SERVICE: Available on an optional basis to residential customers desiring separately metered service for approved space conditioning and/or water heating. To qualify for the rate the water heater must be for sanitary purposes with the tank size, design and method of installation approved by the company. The space conditioning equipment must be permanently installed.

HOURS OF SERVICE: 24 Hours

CURRENT, PHASE AND VOLTAGE: Same as D1 and D3 Rates

CONTRACT TERM: The customer shall contract to remain on this rate for at least 12 months terminable on three days notice after the initial 12 months by either party. Where special services are required, the term will be specified on the applicable contract rider.

INSULATION STANDARDS FOR ELECTRIC HEATING: See Section C4.9.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

LATE PAYMENT CHARGE: See Section C4.8.

RATE PER DAY:

Full Service Customers:

Residential Power Supply Charges:

Energy Charge (June through September):
10.933¢ per kWh for all On-peak kWh
3.621¢ per kWh for all Off-peak kWh

Energy Charge (October through May):
4.724¢ per kWh for all On-peak kWh
3.711¢ per kWh for all Off-peak kWh

On-Peak Hours: All kWh used between 1000 and 1900 hours Monday through Friday.

Off-Peak Hours: All other kWh used.

Residential Delivery Charges:

Service Charge: 6.70¢ per day
Distribution Charge: 2.547¢ per kWh for all kWh

(Continued on [Sheet No. D-14.00](#))

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(Continued from [Sheet No. D-13.00](#))

RATE SCHEDULE NO. D1.7 (CONTD)

**SPACE CONDITIONING, WATER HEATING
TIME-OF-DAY RATE**

Commercial Power Supply Charges:

Energy Charge (June through September):
5.530¢ per kWh for all On-peak kWh
4.230¢ per kWh for all Off-peak kWh

Energy Charge (October through May):
4.230¢ per kWh for all On-peak kWh
4.230¢ per kWh for all Off-peak kWh

On-Peak Hours: All kWh used between 1000 and 1900 hours Monday through Friday.
Off-Peak Hours: All other kWh used.

Commercial Delivery Charges:

Service Charge: 6.70¢ per day
Distribution Charge: 1.540¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Residential Delivery Charges:

Service Charge: 6.70¢ per day
Distribution Charge: 2.547¢ per kWh for all kWh

Commercial Delivery Charges:

Service Charge: 6.70¢ per day
Distribution Charge: 1.350¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

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RATE SCHEDULE NO. D1.8

EXPERIMENTAL DYNAMIC PEAK PRICING RATE

AVAILABILITY OF SERVICE: Available on an optional basis to full-service residential and secondary commercial and industrial customers seeking to manage their electric costs by either reducing load during high cost pricing periods or shifting load from high cost pricing periods to lower cost pricing periods. Service under this experimental rate is limited to a maximum of 5,000 residential customers and 100 secondary commercial and industrial customers who have Advanced Metering Infrastructure installed. Service under this rate may not be combined with any other tariff, rider, or separately metered service.

The rate features three price tiers for On-Peak, Mid-Peak, and Off-Peak, as well as Critical Peak prices for days where Critical Hours are announced.

Definitions:

On-Peak Hours: All kWh used between 3P.M. and 7P.M. Monday through Friday, excluding holidays
Mid-Peak Hours: All kWh used between 7A.M. and 3P.M., and between 7P.M. and 11P.M., Monday through Friday excluding holidays
Off-Peak Hours: All kWh used between 11 P.M and 7 A.M. Monday through Friday, and all weekend and holiday hours.
Critical-Peak Hours: All kWh used during critical hours, which, when announced, will replace the full on-peak time period from 3 P.M. to 7 P.M.

The Company expects to implement Critical Peak pricing for no more than 80 hours per year, for evaluation of the tariff based on several factors including but not limited to economics, system demand or capacity deficiency.

Customers will be notified by 6 P.M. the day before critical hours are expected to occur. Notification will be made by one or more of the following methods: automated telephone message, text message, e-mail, or presentation on an in-premise display unit furnished by the Company. Receipt of such notice is the responsibility of the participating customer.

Customers who qualify and sign up for this rate agree to participate in evaluation surveys and will remain anonymous on all such surveys.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volt, single-phase three-wire; or 208Y/120 volts, three-phase four wire service may be taken.

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(Continued from [Sheet No. D-14.01](#))

RATE SCHEDULE NO. D1.8 (CONTD)

EXPERIMENTAL DYNAMIC PEAK PRICING RATE

CHARGES:

Full Service Residential Customers:

Power Supply Charges:

Energy Charges: 12.0¢ per kWh for all On-Peak kWh
7.0¢ per kWh for all Mid-Peak kWh
4.0¢ per kWh for all Off-Peak kWh
\$1.00 per kWh for all kWh during Critical Peak Hours

Delivery Charges:

Service Charge: \$6.00 per month
Distribution Charge: 4.195¢ per kWh for all kWh

Full Service Secondary Commercial and Industrial Customers:

Power Supply Charges:

Energy Charges: 12.0¢ per kWh for all On-Peak kWh
7.0¢ per kWh for all Mid-Peak kWh
4.0¢ per kWh for all Off-Peak kWh
\$1.00 per kWh for all kWh during Critical Peak Hours

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 3.813¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

SCHEDULE OF HOLIDAYS: See Section C11

CONTRACT TERM: Open order, terminable on three days' notice by either party.

LATE PAYMENT CHARGE: See Section C4.8.

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RATE SCHEDULE NO. D1.9

EXPERIMENTAL ELECTRIC VEHICLE RATE

AVAILABILITY OF SERVICE: Available on an optional basis to residential *and commercial* customers desiring separately metered service for the sole purpose of charging licensed electric vehicles. Installations must conform to the Company's specifications. A statistically significant sample of participants will receive demand meters. Service under this tariff is limited to 2,500 customers. *Service on this rate is limited to electric vehicles that are SAE J1772 compliant, and all vehicles shall be registered and operable on public highways in the State of Michigan to qualify for this rate. Low-speed electric vehicles including golf carts are not eligible to take service under this rate even if licensed to operate on public streets. The customer may be required to provide proof of registration of the electric vehicle to qualify for the program.*

HOURS OF SERVICE: 24 Hours

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 240 volts, three wire. In certain city districts, alternating current is supplied from a Y connected secondary network from which 208 volts, three-wire service may be taken

CONTRACT TERM: Open order, terminable on three days' notice by either party. Where special services are required, the term will be as specified on the applicable contract rider.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

LATE PAYMENT CHARGE: See Section C4.8.

OPTION 1: TIME OF DAY PRICING

Full Service Customers:

Power Supply Charges:

Energy Charge:

14.0¢ per kWh for all On-peak kWh

3.5¢ per kWh for all Off-peak kWh

On-Peak Hours: All kWh used between 9 am and 11 pm Monday through Friday.

Off-Peak Hours: All other kWh used.

Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: 4.195¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Residential Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: 4.195¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on Sheet No. D-14.04)

Issued November 1, 2011
D. G. Brudzynski
Vice President
Regulatory Affairs
Detroit, Michigan



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In Case No. U-16472

(Continued from Sheet No. D-14.03)

RATE SCHEDULE NO. D1.9 (CONTD)

EXPERIMENTAL ELECTRIC VEHICLE RATE

OPTION 2: MONTHLY FLAT FEE (Residential only):

Monthly Fee: \$40 per month per vehicle.

Surcharges and Credits: Included in monthly flat fee.

The monthly flat-fee option shall be limited to 250 customers. A statistically significant sample of the customers receiving the flat-fee option shall receive demand meters for purposes of analyzing charging patterns.

SPECIAL TERMS AND CONDITIONS:

Service under this rate must be supplied through a separately metered circuit and approved electric vehicle charging equipment. Installations must conform with the Company's specifications.

Electric Vehicle Supply Equipment (EVSE) Option (Residential only):

Through December 31, **2014**, Detroit Edison will, at the customer's option:

- Fund up to \$2,500 for the separately metered circuit including the approved charging station.

or

- If the approved charging station is provided by the manufacturer, Detroit Edison will fund up to \$2,500 for the separately metered circuit and the installation of the charging station.

Customers who elect the EVSE Option must execute a contract with Detroit Edison that specifies the terms and conditions of the agreement.

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N. A. Khouri
Vice President
Regulatory Affairs
Detroit, Michigan



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RATE SCHEDULE NO. D2

RESIDENTIAL SPACE HEATING RATE

AVAILABILITY OF SERVICE: Available on an optional basis to customers desiring service for all residential purposes to a single or double occupancy dwelling unit including farm dwellings. All of the space heating must be total electric installed on a permanent basis and served through one meter. This rate also available to customers with add-on heat pumps and fossil fuel furnaces served on this rate prior to July 16, 1985. The design and method of installation and control of equipment as adopted to this service are subject to approval by the Company. This rate is also available to customers with electric heat assisted with a renewable heat source.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire. Where available, and the demand justifies, three-phase four-wire, Y connected service may be had at 208Y/120 volts nominally. In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volt three-wire service may be taken.

RATE PER DAY:

Full Service Customers:

Power Supply Charges:

Energy Charges: (June through October):	6.912¢ per kWh for the first 17 kWh per day 8.257¢ per kWh for over 17 kWh per day
Energy Charges: (November through May):	7.429¢ per kWh for the first 20 kWh per day 5.945¢ per kWh for over 20 kWh per day

Delivery Charges:

Service Charge	\$6.00 per month
Distribution Charge: (June through October):	4.982¢ per kWh for all kWh
Distribution Charge: (November through May):	4.291¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8. Applies only to actual consumption and not to the minimum charge

Retail Access Service customers:

Delivery Charges:

Service Charge	\$6.00 per month
Distribution Charge: (June through October):	4.982¢ per kWh for all kWh
Distribution Charge: (November through May):	4.291¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8. Applies only to actual consumption and not to the minimum charge.

(Continued on [Sheet No. D-16.00](#))

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Regulatory Affairs

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(Continued from [Sheet No. D-15.00](#))

RATE SCHEDULE NO. D2 (CONTD)

RESIDENTIAL SPACE HEATING RATE

BILLING FREQUENCY: Based on a nominal 30-day month. See Section C4.5.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

CONTRACT TERM: Open order, terminable on three days' notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

WATER HEATING SERVICE: Water heating service is available on an optional basis. See Schedule Designation No. D5.

LATE PAYMENT CHARGE: See Section C4.8.

INTERRUPTIBLE SPACE-CONDITIONING PROVISION: Rate D1.1 is available on an optional basis.

INSULATION STANDARDS FOR ELECTRIC HEATING: See Section C4.9.

AUXILIARY POWER PROVISION: Residential customers desiring electric service as an auxiliary source of power for wind or solar powered generating equipment shall take service under this rate schedule under special agreement with the Company.

Parallel operation of private electric generation is not permitted except by written permission of the Company.

The customer having auxiliary power shall pay all direct costs of controlling and protective equipment necessitated by the presence of a source of power on his premises.

The customer shall pay the charges set forth above. The customer may elect to sell energy back to the Company at the rate of 3.1¢ per kWh delivered.

Customers selling energy to the Company shall pay a service charge of 12.4¢ per day in addition to their standard monthly billing.

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Vice President
Regulatory Affairs

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RATE SCHEDULE NO. D3

GENERAL SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service for any purpose, except that this rate is not available for service in conjunction with the Large General Service Rate. At the Company's option, service may be available to loads in excess of 1000 kW for situations where significant modifications to service facilities are not required to serve the excess load. Effective May 27, 1981, this rate is not available to customers desiring service through one meter for residential purposes to a single or double occupancy dwelling unit.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, single-phase three-wire; or 208Y/120 volts, three-phase four-wire service may be taken.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge: 7.595¢ per kWh for all kWh

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 3.555¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 3.153¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

(Continued on [Sheet No. D-19.00](#))

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(Continued from [Sheet No. D-18.00](#))

RATE SCHEDULE NO. D3 (CONTD)

GENERAL SERVICE RATE

CONTRACT TERM: Open order, terminable on three days' written notice by either party. Where special services are required, or where the investment to serve is out of proportion to the revenue derived therefrom, the term will be as specified in the applicable contract rider.

WATER HEATING SERVICE: Water heating service is available on an optional basis. See Schedule Designation No. D5.

INTERRUPTIBLE SPACE-CONDITIONING PROVISION: Rate D1.1 is available for commercial space-conditioning use. This provision is applicable to central air-conditioning and heat pump use. All other provisions of D3 shall apply.

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D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan

Michigan Public Service
Commission

July 18, 2008

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RATE SCHEDULE NO. D3.1

UNMETERED GENERAL SERVICE RATE

AVAILABILITY OF SERVICE: Available at the option of the Company to customers for loads that can be readily calculated and are impractical to meter.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, three-wire; or 208Y/120 volts, three-phase four-wire service may be taken.

SERVICE CONNECTIONS: The customer is to furnish and maintain all necessary wiring and equipment, or reimburse the Company therefore. Connections are to be brought to the Company's underground or overhead lines by the customer as directed by the Company, and the final connections to the Company's line are to be made by the Company.

Conversion and/or relocation of existing facilities must be paid for by the customer, except when initiated by the Company. The detailed provisions and schedule of such charges will be quoted upon request.

RATE: 3.895¢ per month per Watt of the total connected load in service for each customer. Loads operated cyclically will be prorated. This rate is based on 350 hours per month. Proration of cyclical loads will not apply when hours of operation are within 10% of base. Proration may either increase or decrease connected load.

The Company may, at its option, install meters and apply a standard metered rate schedule applicable to the service.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: \$3.00 per month.

CONTRACT TERM: Open order on a month-to-month basis.

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Vice President
Regulatory Affairs

Detroit, Michigan



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RATE SCHEDULE NO. D3.2

SECONDARY EDUCATIONAL INSTITUTION RATE

AVAILABILITY OF SERVICE: Available to Educational Institution (school, college, university) customer locations desiring service at secondary voltage. School shall mean buildings, facilities, playing fields, or property directly or indirectly used for school purposes for children in grades kindergarten through twelve, when provided by a public or nonpublic school. School does not include instruction provided in a private residence or proprietary trade, vocational training, or occupational school. "College" or "University" shall mean buildings owned by the same customer which are located on the same campus and which constitute an integral part of such college or university facilities.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, single-phase three-wire; or 208Y/120 volts, three-phase four-wire service may be taken.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge: 7.688¢ per kWh for all kWh

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 1.645¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 1.645¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.9.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

(Continued on [Sheet No. D-20.02](#))

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Regulatory Affairs

Detroit, Michigan



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(Continued from [Sheet No. D-20.01](#))

RATE SCHEDULE NO. D3.2 (CONTD)

SECONDARY EDUCATIONAL INSTITUTION RATE

CONTRACT TERM: *Open order, terminable on three days' written notice by either party. Where special services are required or where the investment to serve is out of proportion to the revenue derived therefrom, the term will be as specified in the applicable contract rider.*

WATER HEATING SERVICE: *Water heating service is available on an optional basis. See Schedule Designation No. D5.*

INTERRUPTIBLE SPACE-CONDITIONING PROVISION: *Rate D1.1 is available for commercial space-conditioning use. This provision is applicable to central air-conditioning and heat pump use. All other provisions of D3 shall apply.*

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D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan



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RATE SCHEDULE NO. D3.3

INTERRUPTIBLE GENERAL SERVICE RATE

AVAILABILITY OF SERVICE: Available to no more than 300 customers desiring interruptible service in conjunction with service taken under the general service rate. Service to interruptible load shall be taken through separately metered circuits and permanently wired. The design and method of installation for application of this rate shall be subject to the approval of the Company. Service to interruptible load may not be transferred to firm service circuits to avoid interruption. At the Company's option, in lieu of the requirement for separately metered circuits and associated interrupted equipment the customer may elect to have interval demand metering installed in order to monitor compliance when called to interrupt load. Customers electing this option will pay a \$25.00 per month service charge instead of the normal \$8.78 per month service charge. This rate is not available for loads that are primarily off-peak, such as outdoor lighting.

HOURS OF SERVICE: 24 hours except as described below.

HOURS OF INTERRUPTION: All electric power delivered hereunder shall be subject to interruption by the Company, by remote control signal. Company interruptions may include interruptions for, but not limited to, maintaining system integrity, making an emergency purchase, economic reasons, or when available system generation is insufficient to meet anticipated system load.

NON-INTERRUPTION PENALTY: A customer who does not interrupt within one hour following a system integrity interruption order shall be billed at the rate of \$10 per kW for the highest 30-minute kW demand created during the interruption period for all usage above the customer's firm demand, in addition to the prescribed monthly rate. In addition, the interruptible contract capacity of a customer who does not interrupt within one hour following notice shall be immediately reduced by the amount by which the customer failed to interrupt, unless the customer demonstrates that failure to interrupt was beyond its control.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, single-phase three-wire; or 208Y/120 volts, three-phase four-wire service may be taken.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge: 6.344¢ per kWh for all kWh

Delivery Charges:

Service Charge: \$8.78 per month

Distribution Charge: 2.841¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on [Sheet No. D-22.00](#))

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Vice President
Regulatory Affairs

Detroit, Michigan



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In Case No. U-16472

(Continued from [Sheet No. D-21.00](#))

RATE SCHEDULE NO. D3.3 (CONTD)

INTERRUPTIBLE GENERAL SERVICE RATE

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$8.78 per month
Distribution Charge: 2.557¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

CONTRACT TERM: Open order, terminable on three days' written notice by either party. However, where special services are required or where the investment to serve is out of proportion to the revenue derived there from, the contract term will be as specified in the applicable contract rider or Extension of Service Agreement.

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Vice President
Regulatory Affairs

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Regulatory Affairs

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RATE SCHEDULE NO. D4

LARGE GENERAL SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service for any purpose, except that this rate is not available for service in conjunction with the General Service Rate.

Effective May 27, 1981, this rate is not available to customers desiring service through one meter for residential purposes to a single or double occupancy dwelling unit.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 120/240 volts, three-wire; or three-phase four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase four-wire, Y connected at 480Y/277 volts.

In certain city districts, alternating current is supplied from a Y connected secondary network from which 120/208 volts, single-phase three-wire; or 208Y/120 volts, three-phase four-wire service may be taken.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Demand Charge: \$12.90 per kW applied to the Monthly Billing Demand
Energy Charges: 4.542¢ per kWh for the first 200 kWh per kW of billing demand
3.542¢ per kWh for the excess

Delivery Charges:

Service Charge: \$13.67 per month
Distribution Demand Charge: \$9.50 per kW applied to the Monthly Billing Demand

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$13.67 per month
Distribution Demand Charge: \$7.57 per kW applied to the Monthly Billing Demand

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: All applicable demand charges plus the service charge and any applicable per meter per month surcharge.

(Continued on [Sheet No. D-25.00](#))

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(Continued from [Sheet No. D-24.00](#))

RATE SCHEDULE NO. D4 (CONTD)

LARGE GENERAL SERVICE RATE

MONTHLY BILLING DEMAND: Is the greatest of the following:

- (a) The highest single reading of the demand meter during the billing period.
- (b) 5 kW.
- (c) 65% of the highest metered billing demand occurring during the billing months of June through October established during the preceding eleven billing months.

Demand readings shall be rounded to the nearest whole integer.

For customers who guarantee a minimum billing demand of 100 kW, the monthly billing demand in part (a) above shall be the highest 30-minute reading of the demand meter during on-peak hours. (See Section C11), Schedule of on-peak hours.) If the highest 30-minute demand occurs during off-peak hours, then the monthly billing demand shall be the on-peak demand plus one-third of the difference between the on-peak and off-peak maximum demands occurring during the same period.

EXPERIMENTAL LOAD AGGREGATION PROVISION: The provision is available to Rate Schedule No. D4 and Rate Schedule No. D6 customers with at least 7 locations who desire for power supply billing purposes, to aggregate their power supply billing demands. The minimum load per customer is 5,000 kilowatts and the maximum allowed load is 40,000 kilowatts. The total capacity served under this provision is limited to 125,000 kilowatts in total for Rates D4 and D6, available on a first-come, first-served basis. Interval Demand Meters are required for service under this provision. Meter reading will be accomplished electronically through Customer-provided telecommunication links or other electronic data methods able to provide the Company with the metering data necessary to determine the aggregated demands for billing purposes. Customers requiring the installation of an interval demand meter and/or the communication link will be responsible for the costs associated with the required metering equipment, its installation cost, and the costs associated with the communication link.

This provision will continue until *the Commission issues a final order in the Company's next main electric rate case.*

CONTRACT TERM: Open order, terminable on three days' written notice by either party. Where special services are required, or where the investment to serve is out of proportion to the revenue obtainable therefrom, the term will be as specified in the applicable contract rider.

WATER HEATING SERVICE: Water heating service is available on a separate meter basis. See Options I and III, *Schedule Designation No. D5.*

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Regulatory Affairs

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RATE SCHEDULE NO. D5

WATER HEATING SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers using hot water for sanitary purposes (other uses subject to the approval of the Company) and taking service under Residential and General Service Rate Schedules. Options I and III are also available to customers with solar assisted hot water heaters. Company approved waste heat reclamation systems and heat pump water heaters when used in conjunction with an approved electric water heater are also acceptable for use on Option I or III.

Option I: Available to customers who desire controlled water heating service to all of the heating elements of electric water heaters, the design and method of installation of which are approved by the Company as adapted to this service, taken through a separately metered circuit to which no other load except water heating may be connected.

Option II: Available to customers who desire controlled water heating service to single tank installations of 30 through 120 gallon tank capacity for residential customers, and 40 through 120 gallon tank capacity for commercial customers, the design and method of installation of which are approved by the Company as adapted to this service. This service may be taken combined with normal load through the regular meter with only the lower element controlled. NOT AVAILABLE FOR NEW INSTALLATIONS.

Option III: Available to customers who desire uncontrolled water heating service to installations, the design and method of which are approved by the Company as adapted to this service, taken through a separately metered circuit to which no other load except water heating may be connected.

HOURS OF SERVICE: The daily use of all controlled water heating service will be controlled by a timer or other monitoring device. Control of service shall not exceed 4 hours per day, said hours to be established from time to time by the Company.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, nominally at 240 volts, three-wire, except that, in certain city districts, alternating current service at 208 volts, nominal, three-wire, or three-phase at the option of the Company.

RATE PER MONTH:

Option I – Separate Meter – Controlled

Full Service Customers:

Residential Power Supply Charges:

Energy Charge: 3.955¢ per kWh for all kWh

Residential Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: 3.997¢ per kWh for all kWh

(Continued on [Sheet No. D-27.00](#))

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Vice President
Regulatory Affairs

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(Continued from [Sheet No. D-26.00](#))

RATE SCHEDULE NO. D5 (CONTD)

WATER HEATING SERVICE RATE

Commercial Power Supply Charges:

Energy Charge: **4.470¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **2.150¢** per kWh for all kWh

Retail Access Service Customers:

Residential Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **3.997¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **1.900¢** per kWh for all kWh

Option II – Combined Meter – Controlled

Full Service Customers:

Residential: A Power Supply Charge of **3.955¢** per kWh and a Delivery Distribution Charge of **3.997¢** per kWh shall apply to 10 kWh per day, but not to the first 7 kWh per day which will be billed on the applicable rate schedule.

Commercial: A Power Supply Charge of **4.470¢** per kWh and a Delivery Distribution Charge of **2.150¢** per kWh shall apply to 10 kWh per day, but not to the first 7 kWh per day which will be billed on the applicable rate schedule. However, for customers being billed on the General Service Rate D3, a block of 300 kWh per month will apply, but not to the first 210 kWh per month.

Retail Access Service Customers:

Residential: A Delivery Distribution Charge of **3.997¢** per kWh shall apply to 10 kWh per day, but not to the first 7 kWh per day which will be billed on the applicable rate schedule.

Commercial: A Delivery Distribution Charge of **1.900¢** per kWh shall apply to 10 kWh per day, but not to the first 7 kWh per day which will be billed on the applicable rate schedule. However, for customers being billed on the General Service Rate D3, a block of 300 kWh per month will apply, but not to the first 210 kWh per month.

(Continued on [Sheet No. D-28.00](#))

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(Continued from [Sheet No. D-27.00](#))

RATE SCHEDULE NO. D5 (CONTD)

WATER HEATING SERVICE RATE

Option III – Separate Meter – Uncontrolled

Full Service Customers:

Residential Power Supply Charges:

Energy Charge: **5.747¢** per kWh for all kWh

Residential Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **3.997¢** per kWh for all kWh

Commercial Power Supply Charges:

Energy Charge: **7.300¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **2.150¢** per kWh for all kWh

Retail Access Service Customers:

Residential Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **3.997¢** per kWh for all kWh

Commercial Delivery Charges:

Service Charge: \$1.95 per month

Distribution Charge: **1.900¢** per kWh for all kWh

SURCHARGES AND CREDITS: As approved by the Commission. Power Supply Charges are subject to Section C8.5. Delivery Charges are subject to Section C9.8.

CONTRACT TERM: Open order, terminable on three days' notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

(Continued on [Sheet No. D-29.00](#))

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(Continued from [Sheet No. D-28.00](#))

RATE SCHEDULE NO. D5 (CONTD)

WATER HEATING SERVICE RATE

WATER HEATER REQUIREMENTS FOR WATER HEATER RATE APPLICATION:

Residential Service

<u>Rate Option</u>	<u>Minimum Tank Capacity*</u>	<u>Maximum Total Connected Load**</u>
1 and 3	30 gallons	5.5 kW

Commercial Service

<u>Rate Option</u>	<u>Minimum Tank Capacity*</u>	<u>Maximum Total Connected Load**</u>
1 and 3	2 gallons per kW of total connected load 40 gallon minimum	Controlled by minimum tank capacity requirements

*No limitation to number of tanks

**Single or multi-element

Rate Option 2 - Residential and Commercial (Not available for new installations)

Requirements

- 40 Gallon Minimum (Commercial), 30 gallon minimum (Residential)
- One Tank Only
- 5.5 kW Maximum Total Connected Load
- No More than 2 Elements

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Regulatory Affairs
Detroit, Michigan

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RATE SCHEDULE NO. D6

PRIMARY SUPPLY RATE

AVAILABILITY OF SERVICE: Available to customers desiring service at primary, sub-transmission, or transmission voltage who contract for a specified capacity of not less than 50 kilowatts at a single location.

HOURS OF SERVICE: 24 hours, subject to interruption by agreement, or by advance notice.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet normal maximum requirements but not less than 50 kilowatts. The Company undertakes to provide the necessary facilities for a supply of electric power from its primary distribution system at the contract capacity. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for customers served at more than one voltage level shall be the sum of the contract capacities established for each voltage level.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Demand Charge: **\$14.34** per kW of on-peak billing demand
Energy Charges: **4.408¢** per kWh for all on-peak kWh
4.108¢ per kWh for all off-peak kWh

Voltage Level Discount:

0.15¢ per kWh at transmission level
0.10¢ per kWh at subtransmission level

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$2.35** per kW of maximum demand and **0.340¢** per kWh for all energy delivered.

For service at subtransmission voltage (24 to 41.6 kV) **\$1.12** per kW of maximum demand and **0.340¢** per kWh for all energy delivered.

For service at transmission voltage (120 kV and above) **\$0.20** per kW of maximum demand and **0.340¢** per kWh for all energy delivered.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

(Continued on [Sheet No. D-31.00](#))

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(Continued from [Sheet No. D-30.00](#))

RATE SCHEDULE NO. D6 (CONTD)

PRIMARY SUPPLY RATE

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) \$2.50 per kW of maximum demand.

For service at subtransmission voltage (24 to 41.6 kV) **\$0.94** per kW of maximum demand.

For service at transmission voltage (120 kV and above) **\$0.63** per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

DEFINITION OF CUSTOMER VOLTAGE LEVEL: See Section C13.

MONTHLY ON-PEAK BILLING DEMAND: The monthly on-peak billing demand shall be the single highest 30-minute integrated reading of the demand meter during the on-peak hours of the billing period. The monthly on-peak billing demand will not be less than 65% of the highest monthly on-peak metered billing demand during the billing months of June, July, August, September, and October of the preceding eleven billing months, nor less than 50 kilowatts.

(Continued on [Sheet No. D-32.00](#))

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(Continued from [Sheet No. D-31.00](#))

RATE SCHEDULE NO. D6 (CONTD)

PRIMARY SUPPLY RATE

EXPERIMENTAL LOAD AGGREGATION PROVISION: The provision is available to Rate Schedule No. D4 and Rate Schedule No. D6 customers with at least 7 locations who desire for power supply billing purposes, to aggregate their power supply billing demands. The minimum load per customer is 5,000 kilowatts and the maximum allowed load is 40,000 kilowatts. The total capacity served under this provision is limited to 125,000 kilowatts in total for Rates D4 and D6, available on a first-come, first-served basis. Interval Demand Meters are required for service under this provision. Meter reading will be accomplished electronically through Customer-provided telecommunication links or other electronic data methods able to provide the Company with the metering data necessary to determine the aggregated demands for billing purposes. Customers requiring the installation of an interval demand meter and/or the communication link will be responsible for the costs associated with the required metering equipment, its installation cost, and the costs associated with the communication link.

This provision will continue until the Commission issues its final order in Company's next main electric rate case.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of contract capacity. This clause is applicable to each voltage level served.

MINIMUM CHARGE: All applicable demand charges plus the service charge *and any applicable per meter per month surcharges.*

SCHEDULE OF ON-PEAK HOURS: See Section C11.

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet nor to the minimum contract demand, but will be applied to metered quantities.

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

(Continued on [Sheet No. D-33.00](#))

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(Continued from [Sheet No. D-32.00](#))

RATE SCHEDULE NO. D6 (CONTD)

PRIMARY SUPPLY RATE

SPECIAL TERMS AND CONDITIONS: The contract capacity however established shall not be decreased during the term of the contract and subsequent renewal periods as long as service is required unless there is a specific reduction in connected load.

Customer-owned equipment must be operated so that voltage fluctuations on the primary distribution system of the Company shall not exceed permissible limits.

Customers will be permitted to transfer from this rate to a secondary commercial rate, provided they can meet the availability requirements, if the load characteristic changes sufficiently so that the customer would benefit by the change for the foreseeable future even though metering was continued at primary voltage. Frequent changes, however, from one rate to another for a period less than one full year will not be permitted in accordance with Section C4.4 - Choice of Rates.

For example, during the period that a building is under construction, primary service may be supplied and metered at primary voltage and billed on a secondary rate while the building is under the jurisdiction of the contractor.

Also, for the convenience of the utility, service to a large school complex or a high rise building where, as a matter of design, primary voltage is furnished with Company owned transformers at remote locations fed by customer owned primary cables, the account can be billed on a secondary rate though metered at one central primary voltage location at or near the termination of the utility-owned cables.

At the option of the Company, service may be supplied at the primary voltage and metered at a secondary voltage when the customer transfers from a secondary rate. For loads metered at a secondary voltage (less than 600V), all measured quantities shall be increased by 2%.

CONTRACT TERM: For new primary installations over 1000 kW the term is for not less than five years, extending thereafter from month-to-month until terminated by mutual consent or on twelve months' written notice by either party, which may be given at any time after the end of the fourth year. For new primary installations of 1000 kW or less and for new customers at existing installations, the term is for one year which under special circumstances may be increased or reduced at the discretion of the Company, extending thereafter from month-to-month until terminated by mutual consent or on one month written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE NO. D6.1

ALTERNATIVE PRIMARY SUPPLY SERVICE

AVAILABILITY OF SERVICE: Available to customers desiring service at primary, subtransmission, or transmission voltage who contract for a specified capacity of not less than 10,000 kilowatts at a single location.

HOURS OF SERVICE: 24 hours, subject to interruption by agreement, or by advance notice.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet normal maximum requirements but not less than 10,000 kilowatts. The Company undertakes to provide the necessary facilities for a supply of electric power from its primary distribution system at the contract capacity. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for customers served at more than one voltage level shall be the sum of the contract capacities established for each voltage level.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charges: **19.253¢** per kWh for the first 150 hours use of on-peak billing demand created during the billing month, but not less than 10,000 kW
3.621¢ per kWh for the next 300 hours use of on-peak billing demand created during the billing month, but not less than 10,000 kW
1.589¢ per kWh for the excess kWh

The Energy Charge will be reduced by 0.30¢ per kWh for all off-peak use

Voltage Level Discount:

0.15¢ per kWh at transmission level
0.10¢ per kWh at subtransmission level

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$2.70** per kW of maximum demand and **0.257¢** per kWh for all energy delivered.

For service at subtransmission voltage (24 to 41.6 kV) **\$1.40** per kW of maximum demand and **0.257¢** per kWh for all energy delivered.

For service at transmission voltage (120 kV and above) **\$0.44** per kW of maximum demand and **0.257¢** per kWh for all energy delivered.

(Continued on [Sheet No. D-35.00](#))

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(Continued from [Sheet No. D-34.00](#))

RATE SCHEDULE NO. D6.1 (CONTD)

ALTERNATIVE PRIMARY SUPPLY SERVICE

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$3.20** per kW of maximum demand.

For service at subtransmission voltage (24 to 41.6 kV) \$1.20 per kW of maximum demand.

For service at transmission voltage (120 kV and above) \$0.80 per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

DEFINITION OF CUSTOMER VOLTAGE LEVEL: See Section C13.

MONTHLY ON-PEAK BILLING DEMAND: The monthly on-peak billing demand shall be the single highest 30-minute integrated reading of the demand meter during the on-peak hours of the billing period. The monthly on-peak billing demand will not be less than 65% of the highest monthly on-peak metered billing demand during the billing months of June, July, August, September, and October of the preceding eleven billing months, nor less than 10,000 kilowatts.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of contract capacity. This clause is applicable to each voltage level served.

MINIMUM CHARGE: All applicable demand charges plus the service charge and any applicable per meter per month surcharges.

SCHEDULE OF ON-PEAK HOURS: See Section C11.

(Continued on [Sheet No. D-36.00](#))

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In Case No. U-16472

(Continued from [Sheet No. D-35.00](#))

RATE SCHEDULE NO. D6.1

ALTERNATIVE PRIMARY SUPPLY SERVICE

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet nor to the minimum contract demand, but will be applied to metered quantities.

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

SPECIAL TERMS AND CONDITIONS: The contract capacity however established shall not be decreased during the term of the contract and subsequent renewal periods as long as service is required unless there is a specific reduction in connected load.

Customer-owned equipment must be operated so that voltage fluctuations on the primary distribution system of the Company shall not exceed permissible limits.

Customers will be permitted to transfer from this rate to a secondary commercial rate, provided they can meet the availability requirements, if the load characteristic changes sufficiently so that the customer would benefit by the change for the foreseeable future even though metering was continued at primary voltage. Frequent changes, however, from one rate to another for a period less than one full year will not be permitted in accordance with Section C4.4 - Choice of Rates.

For example, during the period that a building is under construction, primary service may be supplied and metered at primary voltage and billed on a secondary rate while the building is under the jurisdiction of the contractor.

At the option of the Company, service may be supplied at the primary voltage and metered at a secondary voltage when the customer transfers from a secondary rate. For loads metered at a secondary voltage (less than 600V), all measured quantities shall be increased by 2%.

CONTRACT TERM: The term is five years, extending thereafter from month-to-month until terminated by mutual consent or on twelve months' written notice by either party, which may be given at any time after the end of the fourth year. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE N O. D6.2

PRIMARY EDUCATIONAL INSTITUTION RATE

AVAILABILITY OF SERVICE: Available to Educational Institution (school, college, university) customer locations desiring service at primary, sub-transmission, or transmission voltage who contract for a specified capacity of not less than 50 kilowatts at a single location. School shall mean buildings, facilities, playing fields, or property directly or indirectly used for school purposes for children in grades kindergarten through twelve, when provided by a public or nonpublic school. School does not include instruction provided in a private residence or proprietary trade, vocational training, or occupational school. "College" or "University" shall mean buildings owned by the same customer which are located on the same campus and which constitute an integral part of such college or university facilities.

HOURS OF SERVICE: 24 hours, subject to interruption by agreement, or by advance notice.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet normal maximum requirements but not less than 50 kilowatts. The Company undertakes to provide the necessary facilities for a supply of electric power from its primary distribution system at the contract capacity. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for customers served at more than one voltage level shall be the sum of the contract capacities established for each voltage level.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Demand Charge: **\$11.65** per kW of on-peak billing demand
Energy Charges: **4.298¢** per kWh for all on-peak kWh
3.998¢ per kWh for all off-peak kWh

Voltage Level Discount:

0.15¢ per kWh at transmission level
0.10¢ per kWh at subtransmission level

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) \$1.93 per kW of maximum demand.
For service at subtransmission voltage (24 to 41.6 kV) **\$0.70** per kW of maximum demand.
For service at transmission voltage (120 kV and above) \$0.45 per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on [Sheet No. D-36.02](#))

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(Continued from [Sheet No. D-36.01](#))

RATE SCHEDULE NO. D6.2 (CONTD)

PRIMARY EDUCATIONAL INSTITUTION RATE

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) \$1.93 per kW of maximum demand.

For service at subtransmission voltage (24 to 41.6 kV) **\$0.70** per kW of maximum demand.

For service at transmission voltage (120 kV and above) \$0.45 per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

DEFINITION OF CUSTOMER VOLTAGE LEVEL: See Section C13.

MONTHLY ON-PEAK BILLING DEMAND: The monthly on-peak billing demand shall be the single highest 30-minute integrated reading of the demand meter during the on-peak hours of the billing period. The monthly on-peak billing demand will not be less than 65% of the highest monthly on-peak metered billing demand during the billing months of June, July, August, September, and October of the preceding eleven billing months, nor less than 50 kilowatts.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of contract capacity. This clause is applicable to each voltage level served.

MINIMUM CHARGE: All applicable demand charges plus the service charge and any applicable per meter per month surcharges.

SCHEDULE OF ON-PEAK HOURS: See Section C11.

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet or to the minimum contract demand, but will be applied to metered quantities.

(Continued on [Sheet No. D-36.03](#))

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(Continued from [Sheet No. D-36.02](#))

RATE SCHEDULE NO. D6.2 (CONTD)

PRIMARY EDUCATIONAL INSTITUTION RATE

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

SPECIAL TERMS AND CONDITIONS: The contract capacity however established shall not be decreased during the term of the contract and subsequent renewal periods as long as service is required unless there is a specific reduction in connected load.

Customer-owned equipment must be operated so that voltage fluctuations on the primary distribution system of the Company shall not exceed permissible limits.

Customers will be permitted to transfer from this rate to a secondary commercial rate, provided they can meet the availability requirements, if the load characteristic changes sufficiently so that the customer would benefit by the change for the foreseeable future even though metering was continued at primary voltage. Frequent changes, however, from one rate to another for a period less than one full year will not be permitted in accordance with Section C4.4 - Choice of Rates.

For example, during the period that a building is under construction, primary service may be supplied and metered at primary voltage and billed on a secondary rate while the building is under the jurisdiction of the contractor.

Also, for the convenience of the utility, service to a large school complex where, as a matter of design, primary voltage is furnished with Company owned transformers at remote locations fed by customer owned primary cables, the account can be billed on a secondary rate though metered at one central primary voltage location at or near the termination of the utility-owned cables.

At the option of the Company, service may be supplied at the primary voltage and metered at a secondary voltage when the customer transfers from a secondary rate. For loads metered at a secondary voltage (less than 600V), all measured quantities shall be increased by 2%.

CONTRACT TERM: For new primary installations over 1000 kW the term is for not less than five years, extending thereafter from month-to-month until terminated by mutual consent or on twelve months' written notice by either party, which may be given at any time after the end of the fourth year. For new primary installations of 1000 kW or less and for new customers at existing installations, the term is for one year which under special circumstances may be increased or reduced at the discretion of the Company, extending thereafter from month-to-month until terminated by mutual consent or on one month written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE NO. D7

SPECIAL MANUFACTURING SUPPLY RATE

AVAILABILITY OF SERVICE: Available to customers desiring service at primary, sub-transmission, or transmission voltage who took service under a Special Manufacturing Contract during 2004.

HOURS OF SERVICE: 24 hours, subject to interruption by agreement, or by advance notice.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet normal maximum requirements but not less than 50 kilowatts. The Company undertakes to provide the necessary facilities for a supply of electric power from its primary distribution system at the contract capacity. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for customers served at more than one voltage level shall be the sum of the contract capacities established for each voltage level.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Demand Charge: \$12.84 per kW of on-peak billing demand
Energy Charge: 4.261¢ per kWh for all kWh

Voltage Level Discount:

0.15¢ per kWh at transmission level
0.10¢ per kWh at subtransmission level

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) \$2.95 per kW of maximum demand and (0.179)¢ per kWh for all energy delivered.
For service at subtransmission voltage (24 to 41.6 kV) \$1.64 per kW of maximum demand and (0.179)¢ per kWh for all energy delivered.
For service at transmission voltage (120 kV and above) \$0.63 per kW of maximum demand and (0.179)¢ per kWh for all energy delivered.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on [Sheet No. D-38.00](#))

Issued January 3, 2012
D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan



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dated December 20, 2011
In Case No. U-16472

(Continued from [Sheet No. D-37.00](#))

RATE SCHEDULE NO. D7 (CONTD)

SPECIAL MANUFACTURING SUPPLY RATE

Retail Access Service customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$2.27** per kW of maximum demand.

For service at subtransmission voltage (24 to 41.6 kV) **\$0.85** per kW of maximum demand.

For service at transmission voltage (120 kV and above) **\$0.57** per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

DEFINITION OF CUSTOMER VOLTAGE LEVEL: See Section C13.

MONTHLY ON-PEAK BILLING DEMAND: The monthly on-peak billing demand shall be the single highest 30-minute integrated reading of the demand meter during the on-peak hours of the billing period. The monthly on-peak billing demand will not be less than 65% of the highest monthly on-peak metered billing demand during the billing months of June, July, August, September, and October of the preceding eleven billing months, nor less than 50 kilowatts.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of contract capacity. This clause is applicable to each voltage level served.

MINIMUM CHARGE: All applicable demand charges plus the service charge and any applicable per meter per month surcharges.

SCHEDULE OF ON-PEAK HOURS: See Section C11.

(Continued on [Sheet No. D-39.00](#))

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(Continued from [Sheet No. D-38.00](#))

RATE SCHEDULE NO. D7 (CONTD)

TRANSITIONAL PRIMARY SUPPLY RATE

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet nor to the minimum contract demand, but will be applied to metered quantities.

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

SPECIAL TERMS AND CONDITIONS: Same as Special Terms and Conditions in Rate Schedule No. D6.

CONTRACT TERM: The term is for one-year, extending thereafter from month-to-month until terminated by mutual consent or on one month written notice by either party.

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RATE SCHEDULE NO. D8

INTERRUPTIBLE SUPPLY RATE

AVAILABILITY OF SERVICE: Available to customers desiring separately metered service at primary voltage who contract for a specified quantity of demonstrated interruptible load of not less than 50 kilowatts at a single location. Contracted interruptible capacity on this rate is limited to 150 megawatts.

HOURS OF INTERRUPTION: All electric power delivered hereunder shall be subject to curtailment on order of the Company. Customers may be ordered to interrupt only when the Company finds it necessary to do so either to maintain system integrity or when the existence of such loads shall lead to a capacity deficiency by the utility. A System Integrity Interruption Order may be given by the Company when the failure to interrupt will contribute to the implementation of the rules for emergency electrical procedures under Section C3. A Capacity Deficiency Interruption Order may be given by the Company when available system generation is insufficient to meet anticipated system load.

NOTICE OF INTERRUPTION: The customer shall be provided, whenever possible, notice in advance of probable interruption and the estimated duration of the interruption.

NON-INTERRUPTION FEE: Customers who do not interrupt within one hour following notice of a capacity deficiency interruption order shall be billed at the cost of replacement energy plus 0.576¢ per kWh during the time of interruption plus the applicable voltage level charge, but not less than the normal D8 rate. Voltage level charges for service other than transmission voltage are:
0.15¢ per kWh at the distribution level.
0.05¢ per kWh at the subtransmission level.

NON-INTERRUPTION PENALTY: A customer who does not interrupt within one hour following a system integrity interruption order shall be billed at the rate of \$10 per kW for the highest 30-minute kW demand created during the interruption period for all usage above the customer's firm demand, in addition to the prescribed monthly rate. In addition, the interruptible contract capacity of a customer who does not interrupt within one hour following notice shall be immediately reduced by the amount by which the customer failed to interrupt, unless the customer demonstrates that failure to interrupt was beyond its control.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet maximum interruptible requirements, but not less than 50 kilowatts. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The interruptible contract capacity shall not include any firm power capacity, except under Product Protection Provision.

(Continued on [Sheet No. D-41.00](#))

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(Continued from [Sheet No. D-40.00](#))

RATE SCHEDULE NO. D8 (CONTD)

INTERRUPTIBLE SUPPLY RATE

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Demand Charge: **\$8.86** per kW of on-peak billing demand
Energy Charge: **4.408¢** per kWh for all on-peak kWh
4.108¢ per kWh for all off-peak kWh

Voltage Level Discount:

0.15¢ per kWh at transmission level
0.10¢ per kWh at subtransmission level

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$3.14** per kW of maximum demand and **0.080¢** per kWh for all energy delivered.

For service at subtransmission voltage (24 to 41.6 kV) **\$1.96** per kW of maximum demand and **0.080¢** per kWh for all energy delivered.

For service at transmission voltage (120 kV and above) **\$1.07** per kW of maximum demand and **0.080¢** per kWh for all energy delivered.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on [Sheet No. D-42.00](#))

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(Continued from [Sheet No. D-41.00](#))

RATE SCHEDULE NO. D8 (CONTD)

INTERRUPTIBLE SUPPLY RATE

Retail Access Service customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24 kV) **\$2.69** per kW of maximum demand.

For service at subtransmission voltage (24 to 41.6 kV) **\$1.01** per kW of maximum demand.

For service at transmission voltage (120 kV and above) **\$0.67** per kW of maximum demand.

Substation Credit: Available to customers where service at sub-transmission voltage level (24 to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

DEFINITION OF CUSTOMER VOLTAGE LEVEL: See Section C13.

MONTHLY ON-PEAK BILLING DEMAND: The monthly on-peak billing demand shall be the single highest 30-minute integrated reading of the demand meter during the on-peak hours of the billing period. In no event will the monthly on-peak billing demand be less than 65% of the highest monthly on-peak metered billing demand during the billing months of June, July, August, September, and October of the preceding eleven billing months, nor less than 50 kilowatts.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of contract capacity. This clause is applicable to each voltage level served.

MINIMUM CHARGE: All applicable demand charges plus the service charge and any applicable per meter per month surcharges.

ON-PEAK HOURS: See Section C11.

(Continued on [Sheet No. D-43.00](#))

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(Continued from [Sheet No. D-42.00](#))

RATE SCHEDULE NO. D8 (CONTD)

INTERRUPTIBLE SUPPLY RATE

PRODUCT PROTECTION PROVISION (Full Service Customers Only): A customer on rate D8 may elect to contract for a minimum load during the period of interruption to protect his product or process. This minimum load called "product protection load" shall not exceed **50%** of the total contracted interruptible load and shall be charged a monthly demand charge per kW of product protection contract capacity equal to the kW demand charges for the Primary Supply Rate (D6) including on-peak demand charges and maximum demand charges as applicable.

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet nor to the minimum contract demand, but will be applied to metered quantities.

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

SPECIAL TERMS AND CONDITIONS: The contract capacity however established shall not be decreased during the term of the contract and subsequent renewal periods as long as service is required unless there is a specific reduction in load. The increase of contract capacity may be limited if, in the opinion of the Company, additional interruptible capacity is not available.

Customer-owned equipment must be operated so that voltage fluctuations on the electrical system of the Company shall not exceed permissible limits.

The customer will own and maintain the necessary switching equipment to separate the interruptible load from the firm power load. The interruptible load shall not be served from the firm power source at any time. The switching equipment must meet the Company standards. The customer must provide space for the separate metering of the interruptible load.

CONTRACT TERM: The contract term is five years, extending thereafter from month-to-month until terminated by mutual consent or on twelve months written notice by either party, which may be given at any time after the end of the fourth year.

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RATE SCHEDULE NO. D9

OUTDOOR PROTECTIVE LIGHTING

AVAILABILITY OF SERVICE: Customers desiring controlled service for outdoor protective lighting on premises where the customer is presently taking electric service under a standard metered rate schedule.

HOURS OF SERVICE: Dusk to dawn service controlled by photo-sensitive devices which provide service every night and all night for approximately 4200 hours per year.

KIND OF SERVICE: Multiple lighting from overhead lines. The Company will own, operate and maintain the lights. Burned out lights must be reported by the customer and the Company will undertake to replace the lights as soon as possible during regular working hours.

EXPERIMENTAL EMERGING LIGHTING TECHNOLOGY PROVISION: Available on an optional basis to customers desiring Outdoor Protective Lighting Service using emerging lighting technologies not otherwise offered through the standard tariff. The Company will own, operate, and maintain the emerging lighting technology equipment and the Customer will provide a contribution in aid of construction equal to the amount by which the investment exceeds three times the estimated annual revenue. Emerging lighting technologies and Customer participation must be approved by the Company and the energy and maintenance benefits for each project will be calculated based on predicted energy and luminaire life. The Company and the Customer will mutually agree on all prices, terms, and conditions for the service under this provision, evidenced by signed agreement.

RATES: As shown on Sheet No. D-45.00 and D-46.00.

BILLING: Billing will be on a monthly basis using the annual rate divided by twelve and rounded to the nearest cent.

SURCHARGES AND CREDITS: As approved by the Commission. Applicable surcharges and credits are listed in Sections C8.5 and C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

CONTRACT TERM: Contracts for overhead service will be taken for a minimum of two years, except that where more than two lights are installed or special purpose facilities are required, the contract term may be extended up to five years. Contracts for underground service were taken for a minimum of five years. Conversion and/or relocation of existing lighting facilities must be paid for by the customer, except where initiated by the Company. The detailed provisions and schedule of such charges will be quoted upon request.

SPECIAL TERMS AND CONDITIONS: Outdoor protective lighting is intended primarily for installations served from existing secondary facilities. All lights will be installed so as to overhang private property at locations satisfactory to the customer and the Company. However, exceptions can be made for floodlight installations to overhang public property where practical.

The stated charges for underground service on Sheet No. D-46.00 cover the ordinary trenching for cable extensions under normal soil conditions in cleared areas.

(Continued on [Sheet No. D-45.00](#))

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(Continued from [Sheet No. D-44.00](#))

RATE SCHEDULE NO. D9 (CONTD)

OUTDOOR PROTECTIVE LIGHTING

- (1) Special purpose facilities are considered to be line or cable extensions, transformers, and any additional poles without lights, excluding facilities provided under stated charges on Sheet No. D-45.00. Where special purpose facilities are required, a service charge of 18% per year on the investment in such facilities will be billed in installments as an addition to the regular rate for each light. In the event the customer discontinues service before the end of the contract term, the established rate as well as the service charge on special purpose facilities for the remaining portion of the contract term shall immediately become due and payable. This provision was closed to new installations as of January 22, 1994.
- (2) For new installations after January 22, 1994, which require investment in excess of three times the annual revenue, this rate is available only to customers who make a contribution in aid of construction equal to the amount by which the investment exceeds three times the annual revenue at the prevailing rate at the time of installation.

RATES: All-night service.

<u>Nominal Lamp Size</u> <u>Watts</u>	<u>Type of Service</u>	<u>Charge per</u> <u>Lamp per Year</u>
	Overhead Protective Lighting Service Existing Pole and Existing Secondary Facilities	
175	Mercury Vapor	<i>\$186.10</i>
250	Mercury Vapor	<i>\$220.04</i>
400	Mercury Vapor	<i>\$289.20</i>
1,000	Mercury Vapor	<i>\$537.19</i>
100	High Pressure Sodium	<i>\$136.34</i>
150	High Pressure Sodium	<i>\$163.67</i>
250	High Pressure Sodium	<i>\$211.91</i>
400	High Pressure Sodium	<i>\$335.63</i>
1,000	High Pressure Sodium	<i>\$427.69</i>
100	Metal Halide	<i>\$203.20</i>
150 or 175	Metal Halide	<i>\$261.50</i>
250	Metal Halide	<i>\$407.22</i>
320 or 400	Metal Halide	<i>\$431.51</i>
1,000	Metal Halide	<i>\$537.14</i>

For installations prior to January 22, 1994. New Pole and Single Span of Secondary Facilities. The above rate plus \$24.48 per pole per year.

Effective January 22, 1994 installation requiring additional facilities shall pay a contribution in aid of construction in lieu of the service charge. Contribution is described in paragraph (2) above.

Multiple Lamps on a Single Pole. For each additional luminaire added to the same pole the charge will be at the existing pole rate.

The Energy Policy Act of 2005 states that no Mercury Vapor lamp ballasts may be manufactured or imported after January 1, 2008. As a result, effective January 1, 2008, new Mercury Vapor lamps will no longer be available. Customers with existing Mercury Vapor lamp ballasts will continue to receive service until those fixtures fail. At that time, customers will be given the option of switching to High Pressure Sodium, Metal Halide or retiring the fixture.

(Continued on [Sheet No. D-46.00](#))

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(Continued from [Sheet No. D-45.00](#))

RATE SCHEDULE NO. D9 (CONTD)

OUTDOOR PROTECTIVE LIGHTING

RATES: All-night service supplied by mercury vapor lamps.

Nominal Lamp Size <u>Watts</u>	Charge per <u>Lamp per Year</u>
Ornamental Underground Protective Lighting Service* Lamp Spacing up to 120 Feet of Trench	
100	\$349.77
175	\$402.56
250	\$424.36
400	\$493.34
1,000	\$689.46

Multiple Lamps on a Single Pole

For each additional luminaire added to the same pole reduce rate per lamp per year on the added luminaire by \$97.92.

The Energy Policy Act of 2005 states that no Mercury Vapor lamp ballasts may be manufactured or imported after January 1, 2008. As a result, effective January 1, 2008, new Mercury Vapor lamps will no longer be available. Customers with existing Mercury Vapor lamp ballasts will continue to receive service until those fixtures fail. At that time, customers will be given the option of switching to High Pressure Sodium, Metal Halide or retiring the fixture.

*Not available for new business.

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RATE SCHEDULE NO. D10

ALL-ELECTRIC SCHOOL BUILDING SERVICE RATE

AVAILABILITY OF SERVICE: Available to customers desiring service in school buildings served at primary voltage who contract for a specified installed capacity of not less than 50 kilowatts at a single location provided the space heating and water heating for all or a substantial portion of the premises is supplied by electric service and is installed on a permanent basis.

HOURS OF SERVICE: 24 hours, subject to interruption by agreement, or by advance notice.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800 or 13,200 volts at the option of the Company.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charge (June through October): **9.005¢** per kWh for all kWh
Energy Charge (November through May): **7.270¢** per kWh for all kWh

Delivery Charges:

Service Charge: \$108 per month
Distribution Charge: **1.410¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$108 per month
Distribution Charge: 1.008¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

(Continued on [Sheet No. D-48.00](#))

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(Continued from [Sheet No. D-47.00](#))

RATE SCHEDULE NO. D10 (CONTD)

ALL-ELECTRIC SCHOOL BUILDING SERVICE RATE

POWER FACTOR CLAUSE:

Full Service Customers:

The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Any power factor less than 70% will not be permitted and the customer will be required to install at his own expense such corrective equipment as may be necessary to improve power factor. A penalty will be applied to the total amount of the monthly billing for electric energy for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The Power Factor Clause shall not be applied to the on-peak billing demand ratchet nor to the minimum contract demand, but will be applied to metered quantities.

Retail Access Service Customers:

A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

SPECIAL TERMS AND CONDITIONS: Customer-owned equipment must be operated so that voltage fluctuations on the primary distribution system of the Company shall not exceed permissible limits.

At the option of the Company where service to a large school complex, as a matter of design, primary voltage is furnished with Company owned transformers at remote locations fed by customer owned primary cables, the account can be billed on a secondary rate though metered at one central primary voltage location at or near the termination of the utility-owned cables.

At the option of the Company, service may be supplied at the primary voltage and metered at a secondary voltage when the customer transfers from a secondary rate. For loads metered at a secondary voltage (less than 600V), all measured quantities shall be increased by 2%.

CONTRACT TERM: For new primary installations over 1000 kW the term is for not less than five years, extending thereafter from month-to-month until terminated by mutual consent or on twelve months' written notice by either party, which may be given at any time after the end of the fourth year. For new primary installations of 1000 kW or less and for new customers at existing installations, the term is for one year which under special circumstances may be increased or reduced at the discretion of the Company, extending thereafter from month-to-month until terminated by mutual consent or on one month written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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RATE SCHEDULE NO. E1

MUNICIPAL STREET LIGHTING RATE

AVAILABILITY OF SERVICE: Available to governmental agencies desiring controlled nighttime service for street lighting, for public thoroughfares, public parking lots and other public areas. Mercury Vapor service listed hereunder is not available for new business, except for limited additions to existing systems, but will be continued for customers taking said service as of July 23, 1981.

HOURS OF SERVICE: For circuits controlled by photo-sensitive devices, the street lights are burning at all times when the general level of illumination is lower than about 3/4 of a footcandle.

KIND OF SERVICE: Multiple or series street lighting at the option of the Company from overhead lines or underground circuits.

The Company presently has three (3) street lighting rate options available to municipalities. They are: (I) A Company owned system, (II) A municipally owned and Company maintained system, (III) A municipally owned and maintained system.

OPTION I

The Company will clean, inspect, operate and maintain street lighting equipment and furnish lamp replacements.

EXPERIMENTAL EMERGING LIGHTING TECHNOLOGY PROVISION: Available on an optional basis to customers desiring Municipal Street Lighting Service using emerging lighting technologies not otherwise offered through the standard tariff. The Company will own, operate, and maintain the emerging lighting technology equipment and the Customer will provide a contribution in aid of construction equal to the amount by which the investment exceeds three times the estimated annual revenue. Emerging lighting technologies and Customer participation must be approved by the Company and the energy and maintenance benefits for each project will be calculated based on predicted energy and luminaire life. The Company and the Customer will mutually agree on all prices, terms, and conditions for the service under this provision, evidenced by signed agreement.

OPTION II

Where the street lighting system is owned by the municipality, but is maintained by the Company, the normal maintenance will consist of replacement of glassware and lamps. Major maintenance such as broken lamp posts, etc., must be paid for by the municipality. The street lighting system must be built to Company specifications.

This option *has been* closed to new customers effective January 14, 2009.

Existing Option II customers desiring a change to emerging lighting technology (including LEDs) will be required to convert either to Option I or Option III to accommodate this change in lighting source.

OPTION III

Where the municipality owns and maintains the system, the Company's function will be confined solely to the supply of electricity. *Customers desiring service under Option III are free to determine the appropriate light source for their application including incumbent and emerging technologies (including LEDs). Customers must supply adequate documentation of the wattage of the light source that will be subject to the approval of the Company.*

RATES: As shown on Sheet Nos. D-50.00, D-51.00 and D-52.00.

BILLING: Billing will be on a monthly basis using the annual rate divided by twelve and rounded to the nearest cent.

SURCHARGES AND CREDITS: As approved by the Commission. See Sections C8.5 and C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

(Continued on [Sheet No. D-50.00](#))

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(Continued from [Sheet No. D-49.00](#))

RATE SCHEDULE NO. E1 (CONTD)

MUNICIPAL STREET LIGHTING RATE

CONTRACT TERM: Open order terminable on a thirty day written notice by either party. Any conversion, relocation and/or removal of existing street lighting facilities at the customer's request, including those removals necessitated by termination of service, must be paid for by the customer. The detailed provisions and schedule of charges, which may include the remaining value of the existing facilities, will be quoted upon request. The Company shall not withdraw service, and the municipality shall not substitute another source of service in whole or in part, without twelve months' written notice to the other party.

Option I: Company Owned Street Lighting System

Where new installations require an investment in excess of an investment allowance, Option I is available only to customers who make a contribution in aid of construction equal to the amount by which the investment exceeds three times the annual revenue at the prevailing rate at the time of installation. (Effective January 1, 1991, the investment amount will be limited to direct cost. Effective January 1, 1992, the investment amount will include full cost.)

As an alternative, where the required contribution exceeds \$10,000, upon agreement of the customer and the Company, the customer will pay an additional annual charge of 12% times the contribution amount in lieu of the cash contribution.

DE-ENERGIZED LIGHTS: Customers may elect to have any or all luminaires served under this rate disconnected. The charge per luminaire per year, payable in equal monthly installments, shall be 60% of the regular yearly rates. A \$35.00 charge per luminaire will be made at the time of de-energization and at the time of re-energization.

DUSK TO MIDNIGHT SERVICE: For service to parking lots from dusk to approximately twelve o'clock midnight E.S.T., a discount of 1.060¢ per nominal lamp size wattage per month will be applied. One control per circuit will be provided.

EXPERIMENTAL PROGRAMMABLE PHOTOCELL SERVICE: Customers may elect to place luminaires on photocells that are programmable to turn off lights at pre-determined times during the night. A discount of 1.060¢ per nominal lamp size wattage per month will be applied.

RATES: All-night service.
(Overhead Street Lighting Service)

<u>Nominal Lamp Size</u>	<u>Type of Service</u>	<u>Charge per Lamp per Year</u>
100 Watt	Mercury Vapor	\$155.28
175 Watt	Mercury Vapor	\$201.12
250 Watt	Mercury Vapor	\$226.44
400 Watt	Mercury Vapor	\$301.56
1,000 Watt	Mercury Vapor	\$537.84
70 Watt	High Pressure Sodium	\$174.84
100 Watt	High Pressure Sodium	\$183.96
150 Watt	High Pressure Sodium	\$201.12
250 Watt	High Pressure Sodium	\$234.60
360 or 400 Watt	High Pressure Sodium	\$306.12
1,000 Watt	High Pressure Sodium	\$566.64
70 Watt	Metal Halide	\$252.84
100 Watt	Metal Halide	\$266.04
150 or 175 Watt	Metal Halide	\$314.76
250 Watt	Metal Halide	\$353.16
320 or 400 Watt	Metal Halide	\$459.60
1,000 Watt	Metal Halide	\$760.32

- Multiple Lamps on a Single Pole
- For each additional luminaire added to the same pole, reduce rate per lamp per year on the added luminaire \$12.24.
- The Energy Policy Act of 2005 states that no Mercury Vapor lamp ballasts may be manufactured or imported after January 1, 2008. As a result, effective January 1, 2008, new Mercury Vapor lamps will no longer be available. Customers with existing Mercury Vapor lamp ballasts will continue to receive service until those fixtures fail. At that time, customers will be given the option of switching to High Pressure Sodium, Metal Halide or retiring the fixture.

(Continued on [Sheet No. D-51.00](#))

Issued January 3, 2012
D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan



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In Case No. U-16472

(Continued from [Sheet No. D-50.00](#))

RATE SCHEDULE NO. E1 (CONTD)

MUNICIPAL STREET LIGHTING RATE

Option I: Company Owned Street Lighting System (Contd)
 Ornamental Underground Street Lighting Service
 (Lamp Spacing up to 120 Feet of Street)

RATES: All-night service.

<u>Nominal Lamp Size</u>	<u>Type of Service</u>	<u>Charge per Lamp per Year</u>
100 Watt	Mercury Vapor	\$352.56
175 Watt	Mercury Vapor	\$405.36
250 Watt	Mercury Vapor	\$446.88
400 Watt	Mercury Vapor	\$532.08
1,000 Watt	Mercury Vapor	\$747.24
70 Watt	High Pressure Sodium	\$321.12
100 Watt	High Pressure Sodium	\$330.12
150 Watt	High Pressure Sodium	\$360.00
250 Watt	High Pressure Sodium	\$420.60
360 Watt	High Pressure Sodium	\$513.96
400 Watt	High Pressure Sodium	\$513.12
1,000 Watt	High Pressure Sodium	\$666.84
70 Watt	Metal Halide	\$420.24
100 Watt	Metal Halide	\$432.96
150 or 175 Watt	Metal Halide	\$511.56
250 Watt	Metal Halide	\$573.60
320 or 400 Watt	Metal Halide	\$705.00
1,000 Watt	Metal Halide	\$874.56

- For lamp spacing over 120 feet up to 325 feet on the same side of street, add to rate per lamp per year \$24.48
- For Semi-Ornamental Systems which employ Ornamental Post Units served from overhead conductors, where such construction is practical, reduce rate per lamp per year \$21.48

Multiple Lamps on a Single Pole

- For additional luminaire added to the same pole, reduce rate per lamp per year on the added luminaire
 Ornamental \$97.92
 Ornamental-Lamp spacing over 120 feet \$122.40
 Semi-Ornamental \$76.56

(Continued on [Sheet No. D-52.00](#))

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(Continued from [Sheet No. D-51.00](#))

RATE SCHEDULE NO. E1 (CONTD)

MUNICIPAL STREET LIGHTING RATE

OPTION II: Street Equipment Owned by Municipality

RATES: All-night service.

<u>Nominal Lamp Size</u>	<u>Type of Service</u>	<u>Charge per Lamp per Year</u>
175 Watt	Mercury Vapor	\$123.72
250 Watt	Mercury Vapor	\$157.92
400 Watt	Mercury Vapor	\$192.12
1,000 Watt	Mercury Vapor	\$330.72
70 Watt	High Pressure Sodium	\$101.40
100 Watt	High Pressure Sodium	\$110.28
250 Watt	High Pressure Sodium	\$163.92
360 or 400 Watt	High Pressure Sodium	\$236.76
1,000 Watt	High Pressure Sodium	\$424.44
70 Watt	Metal Halide	\$116.88
100 Watt	Metal Halide	\$125.04
175 Watt	Metal Halide	\$162.96
250 Watt	Metal Halide	\$177.72
400 Watt	Metal Halide	\$257.76
1,000 Watt	Metal Halide	\$434.52

- The Energy Policy Act of 2005 states that no Mercury Vapor lamp ballasts may be manufactured or imported after January 1, 2008. As a result, effective January 1, 2008, new Mercury Vapor lamps will no longer be available. Customers with existing Mercury Vapor lamp ballasts will continue to receive service until those fixtures fail. At that time, customers will be given the option of switching to High Pressure Sodium, Metal Halide or retiring the fixture.
- **DE-ENERGIZED LIGHTS:** Customers may elect to have any or all luminaires served under this rate disconnected. The charge per luminaire per year, payable in equal monthly installments, shall be 10% of the above yearly rates. A \$35.00 charge per luminaire will be made at the time of de-energization and at the time of re-energization.
- **DUSK TO MIDNIGHT SERVICE:** For service to parking lots from dusk to approximately twelve o'clock midnight E.S.T., a discount of 1.060¢ per nominal watt per month will be applied. One control per circuit will be provided.

(Continued on [Sheet No. D-53.00](#))

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 Vice President
 Regulatory Affairs

 Detroit, Michigan



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 In Case No. U-16472

(Continued from [Sheet No. D-52.00](#))

RATE SCHEDULE NO. E1 (CONTD)

MUNICIPAL STREET LIGHTING RATE

OPTION III: Municipally Owned and Maintained Street Lighting System (Unmetered)

RATES: Where the municipality owns, operates, cleans and renews the lamps, and the Company's service is confined solely to the supply of electricity from dusk to dawn, the monthly charge of said service shall be **3.60¢** per nominal connected watt per month of lamps so served. If it is necessary for the Company to install facilities to provide service for the lamps, the customer will reimburse the Company for these costs. Contract Rider No. 2 charges will also apply.

OPTION III: Municipally Owned and Maintained Street Lighting System (Controlled/Metered)

AVAILABILITY OF SERVICE: Available to governmental agencies desiring controlled nighttime service for primary or secondary voltage energy-only street lighting service where the Company has existing distribution lines available for supplying energy for such service. Luminaires served under any of the Company's other street lighting rates shall not be intermixed with luminaires serviced under this street lighting rate. This rate is not available for resale purposes. Service is governed by the Company's Standard Rules and Regulations.

HOURS OF SERVICE: For circuits controlled by automatic timing devices, one-half hour after sunset until one-half hour before sunrise. For circuits controlled by photo-sensitive devices, the streetlights burn whenever the general level of illumination is less than approximately 3/4 footcandle. For dusk to midnight service, luminaires shall be controlled to turn off at approximately twelve o'clock midnight.

KIND OF SERVICE:

Secondary Voltage Service: Alternating current, 60 hertz, single-phase 120/240 nominal volt service for a minimum of ten luminaires located within a clearly defined area. Except for control equipment, the customer will furnish, install, own and maintain all equipment comprising the street lighting system up to the point of attachment with the Company's distribution system. The Company will connect the customer's equipment to the Company's lines and supply the energy for operation. All of the customer's equipment will be subject to the Company's review.

Primary Voltage Service: Alternating current, 60 hertz, single-phase or three-phase, primary voltage service for actual demands of not less than 100 kW at each point of delivery. The particular nature of the voltage shall be determined by the Company. The customer will furnish, install, own and maintain all equipment comprising the street lighting system, including control equipment, up to the point of attachment with the Company's distribution system. The Company will supply the energy for operation of the customer's street lighting system.

(Continued on [Sheet No. D-54.00](#))

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Regulatory Affairs

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In Case No. U-16472

(Continued from [Sheet No. D-53.00](#))

RATE SCHEDULE NO. E1 (CONTD)

MUNICIPAL STREET LIGHTING RATE

MONTHLY RATE:

Secondary Energy

Full Service Customers:

Power Supply Charge:

5.228¢ per kWh for all kWh

Delivery System Charge:

2.266¢ per kWh based on the capacity requirements in kilowatts of the equipment assuming 4,200 burning hours per year, adjusted by the ratio of the monthly kWh consumption to the total annual kWh consumption.

Retail Access Service Customers:

Delivery System Charge:

2.035¢ per kWh based on the capacity requirements in kilowatts of the equipment assuming 4,200 burning hours per year, adjusted by the ratio of the monthly kWh consumption and the total annual kWh consumption.

At the Company's option, service may be metered and the metered kWh will be the basis for billing. Capacity requirements of lighting equipment shall be determined by the Company from manufacturer specifications, but the Company maintains the right to test such capacity requirements from time to time. In the event that Company tests show capacity requirements other than those indicated in manufacturer specifications, the capacity requirements indicated by Company tests will be used. The customer shall not change the capacity requirements of its equipment without first notifying the Company in writing.

Option III: Municipally Owned and Maintained Street Lighting System (Controlled/Metered)

For dusk to midnight service, the monthly Power Supply Charge per kWh shall be 10.399¢ per kWh and the Delivery System Charge shall be 2.266¢ per kWh for secondary service.

PRIMARY ENERGY CHARGE: 7.551¢ per kWh as metered.

BILLING: Billing will be on a monthly basis.

SURCHARGES AND CREDITS: As approved by the Commission. Power Supply Charges are subject to Section C8.5. Delivery Charges are subject to Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The contract minimum.

CONTRACT TERM: Contracts will be taken for a minimum of two years, extending thereafter from year to year until terminated by mutual consent or upon 12 months' written notice by either party.

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Vice President
Regulatory Affairs

Detroit, Michigan



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In Case No. U-16472

RATE SCHEDULE NO. E2

TRAFFIC AND SIGNAL LIGHTS

AVAILABILITY OF SERVICE: Available to municipalities or other public authorities, hereinafter referred to as customer, operating lights for traffic regulation or signal lights on streets, highways, airports or water routes, as distinguished from street lighting. Customers desiring service under Rate Schedule No. E2 are free to determine the appropriate light source for their application including incumbent and emerging technologies (including LEDs). Customers must supply adequate documentation of the wattage of the light source that will be subject to the approval of the Company.

HOURS OF SERVICE: 24 hours.

CURRENT, PHASE AND VOLTAGE: Alternating current, single-phase, at 120 volts two-wire.

SERVICE CONNECTIONS: The customer is to furnish and maintain all necessary wiring and equipment, including lamps and lamp replacements, or reimburse the Company therefore, except that the Company will furnish, install and maintain such span poles and messenger cable as may be needed to support the traffic or signal lights of the overhead type. Connections are to be brought to the Company's underground and overhead lighting mains by the customer as directed by the Company, and the final connection to the Company's main is to be made by the Company.

Conversion and/or relocation of existing facilities must be paid for by the customer, except when initiated by the Company. The detailed provisions and schedule of such charges will be quoted upon request.

RATES: 4.128¢ per month per watt of the total connected traffic light or signal light load in service for each customer.

Total connected wattage will be reckoned as of the fifteenth of the month. Lamps removed from service before the fifteenth or placed in service on or after the fifteenth will be omitted from the reckoning; conversely, lamps placed in service on or before the fifteenth of the month or removed from service after the fifteenth of the month will be reckoned for a full month. Lamps operated cyclically, on and off, will be reckoned at one-half wattage and billed for a full month. No such reduction of reckoned wattage will be allowed for lamps in service but turned off during certain hours of the day.

The Company may, at its option, install meters and apply a standard metered rate schedule applicable to the service.

SURCHARGES AND CREDITS: As approved by the Commission. See Sections C8.5 and C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: \$3.00 per customer per month.

CONTRACT TERM: Open order on a month-to-month basis. However, the Company shall not withdraw service, and the customer shall not substitute another source of service in whole or in part, without twelve months' written notice to the other party.

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D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan



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HOLD FOR FUTURE USE

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Regulatory Affairs

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STANDARD CONTRACT RIDER NO. 1.1

ALTERNATIVE ELECTRIC METAL MELTING

APPLICABLE TO:	General Service Rate	Schedule Designation D3
	Large General Service Rate	Schedule Designation D4
	Primary Supply Rate	Schedule Designation D6
	Alternative Primary Supply Rate	Schedule Designation D6.1
	Interruptible Supply Rate	Schedule Designation D8

Customers operating electric furnaces for metal melting or for the reduction of metallic ores and/or electric use consumed in holding operations and taking their supply at any of the above rates and who provide special circuits so that the Company may install necessary meters, may take service under this Rider subject to Section C4.4 - Choice of Rates..

Customers shall be subject to immediate interruption on short-term notice if necessary, in order to maintain system integrity. The customer shall be provided, whenever possible, notice in advance of probable interruption and estimated duration of interruption.

Non-Compliance Penalty: A customer who does not interrupt within one hour following a system integrity interruption order shall be billed at the rate of \$10 per kW for the highest 30-minute kW demand created during the interruption period in addition to the prescribed monthly rate.

Electric energy from any facilities, other than the Company's, except for on-site generation installed prior to January 1, 1986, will be used to first reduce the sales on this rider. Standby service will not be billed at this rider, but must be taken under Riders No. 3, No. 5 or No. 6.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charges:

For service at secondary voltage level (less than 4.8 kV)
8.922¢ per kWh for the first 100 hours use of maximum demand
4.868¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)
8.225¢ per kWh for the first 100 hours use of maximum demand
4.534¢ per kWh for the excess

For service at subtransmission voltage level (24 kV to 41.6 kV)
8.175¢ per kWh for the first 100 hours use of maximum demand
4.416¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)
7.876¢ per kWh for the first 100 hours use of maximum demand
4.222¢ per kWh for the excess

(Continued on [Sheet No. D-58.00](#))

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Vice President
Regulatory Affairs

Detroit, Michigan



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dated December 20, 2011
In Case No. U-16472

(Continued from [Sheet No. D-57.00](#))

STANDARD CONTRACT RIDER NO. 1.1 (CONTD)

ALTERNATIVE ELECTRIC METAL MELTING

Delivery Charges:

Distribution Charges:

For service at secondary voltage level (less than 4.8 kV)

1.903¢ per kWh for the first 100 hours use of maximum demand

1.903¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)

1.488¢ per kWh for the first 100 hours use of maximum demand

1.488¢ per kWh for the excess

For service at subtransmission voltage level (24 kV to 41.6 kV)

1.451¢ per kWh for the first 100 hours use of maximum demand

1.451¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)

1.595¢ per kWh for the first 100 hours use of maximum demand

1.595¢ per kWh for the excess

Substation Credit: Available to customers where service at sub-transmission voltage (24 kV to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of 0.3¢/kWh will be applied to the energy use associated with the first 100 hours use of maximum demand.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8

(Continued on [Sheet No. D-59.00](#))

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Vice President
Regulatory Affairs

Detroit, Michigan



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dated December 20, 2011
In Case No. U-16472

(Continued from [Sheet No. D-58.00](#))

STANDARD CONTRACT RIDER NO. 1.1 (CONTD) ALTERNATIVE ELECTRIC METAL MELTING

Retail Access Service Customers:

Delivery Charges:

Distribution Charges:

For service at secondary voltage level (less than 4.8 kV)
1.274¢ per kWh for the first 100 hours use of maximum demand
1.274¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)
0.996¢ per kWh for the first 100 hours use of maximum demand
0.996¢ per kWh for the excess

For service at subtransmission voltage level (24 kV to 41.6 kV)
0.972¢ per kWh for the first 100 hours use of maximum demand
0.972¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)
1.069¢ per kWh for the first 100 hours use of maximum demand
1.069¢ per kWh for the excess

Substation Credit: Available to customers where service at sub-transmission voltage (24 kV to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of 0.3¢/kWh will be applied to the energy use associated with the first 100 hours use of maximum demand.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

(Continued from [Sheet No. D-60.00](#))

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Vice President
Regulatory Affairs

Detroit, Michigan



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In Case No. U-16472

(Continued from [Sheet No. D-59.00](#))

STANDARD CONTRACT RIDER NO. 1.1 (CONTD) ALTERNATIVE ELECTRIC METAL MELTING

LATE PAYMENT CHARGE: See Section C4.8.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute integrated demand created during the current billing month. This clause is applicable to each voltage level served.

MINIMUM CHARGES: 1) A monthly minimum charge of \$2.10 per kW of contract capacity shall be applied to that portion of the customer's load which is served under this rider. This minimum charge will be waived if the customer over the past 12 months (including the current bill), or from the start of the contract term if less than 12 months, has averaged \$2.10 per kW per month in revenues. This minimum charge is in addition to the minimum charge under the above rates, *plus*; 2) *any applicable per meter per month surcharges.*

POWER FACTOR CLAUSE (Retail Access Service Customers Only): A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet the normal maximum requirements of the load qualifying for service under this rider. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for this rider shall not be included in the contract capacity established for the filed rate which is used in conjunction with this rider.

SPECIAL TERMS AND CONDITIONS: The customer is responsible for all new facilities and lines required for service under this rider. Said facilities and lines must meet all Company standards. The Company at its option may install and own said facilities under the provisions of Standard Contract Rider No. 2.

TERM: One year under written contract and month-to-month thereafter.

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Vice President
Regulatory Affairs

Detroit, Michigan

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(Continued from [Sheet No. D-60.00](#))

STANDARD CONTRACT RIDER NO. 1.2

ELECTRIC PROCESS HEAT

APPLICABLE TO:	General Service Rate	Schedule Designation D3
	Large General Service Rate	Schedule Designation D4
	Primary Supply Rate	Schedule Designation D6
	Alternative Primary Supply Rate	Schedule Designation D6.1
	Interruptible Supply Rate	Schedule Designation D8

Customers using electric heat as an integral part of a manufacturing process, or electricity as an integral part of an anodizing, plating or coating process, and taking their supply at any of the above rates and who provide special circuits to accommodate separate metering may take service under this Rider subject to Section C4.4-Choice of Rates.

This Rider is available only to customers who add new load on or after May 1, 1986 to engage in the above described processes and to customers served on R1.1 prior to May 1, 1986 and engaged in the above described processes.

Customers shall be subject to immediate interruption on short-term notice if necessary, in order to maintain system integrity. The customer shall be provided, whenever possible, notice in advance of probable interruption and estimated duration of interruption.

Non-Compliance Penalty: A customer who does not interrupt within one hour following a system integrity interruption order shall be billed at the rate of \$10 per kW for the highest 30-minute kW demand created during the interruption period in addition to the prescribed monthly rate.

Electric energy from any facilities, other than the Company's, except for on-site generation installed prior to January 1, 1986, will be used to first reduce the sales on this rider. Standby service will not be billed at this rider, but must be taken under Riders No. 3, No. 5 or No. 6.

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charges:

For service at secondary voltage level (less than 4.8 kV)
8.922¢ per kWh for the first 100 hours use of maximum demand
4.868¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)
8.225¢ per kWh for the first 100 hours use of maximum demand
4.534¢ per kWh for the excess

(Continued on [Sheet No. D-62.00](#))

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Regulatory Affairs

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(Continued from [Sheet No. D-61.00](#))

STANDARD CONTRACT RIDER NO. 1.2 (CONTD)

ELECTRIC PROCESS HEAT

For service at subtransmission voltage level (24 kV to 41.6 kV)
8.175¢ per kWh for the first 100 hours use of maximum demand
4.416¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)
7.876¢ per kWh for the first 100 hours use of maximum demand
4.222¢ per kWh for the excess

Delivery Charges:

Distribution Charges:

For service at secondary voltage level (less than 4.8 kV)
1.903¢ per kWh for the first 100 hours use of maximum demand
1.903¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)
1.488¢ per kWh for the first 100 hours use of maximum demand
1.488¢ per kWh for the excess

For service at subtransmission voltage level (24 kV to 41.6 kV)
1.451¢ per kWh for the first 100 hours use of maximum demand
1.451¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)
1.595¢ per kWh for the first 100 hours use of maximum demand
1.595¢ per kWh for the excess

Substation Credit: Available to customers where service at sub-transmission voltage (24 kV to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of 0.3¢/kWh will be applied to the energy use associated with the first 100 hours use of maximum demand.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

(Continued on [Sheet No. D-63.00](#))

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(Continued from [Sheet No. D-62.00](#))

STANDARD CONTRACT RIDER NO. 1.2 (CONTD)

ELECTRIC PROCESS HEAT

Retail Access Service Customers:

Delivery Charges:

Distribution Charges:

For service at secondary voltage level (less than 4.8 kV)

1.274¢ per kWh for the first 100 hours use of maximum demand

1.274¢ per kWh for the excess

For service at primary voltage level (4.8 kV to 13.2 kV)

0.996¢ per kWh for the first 100 hours use of maximum demand

0.996¢ per kWh for the excess

For service at subtransmission voltage level (24 kV to 41.6 kV)

0.972¢ per kWh for the first 100 hours use of maximum demand

0.972¢ per kWh for the excess

For service at transmission voltage level (120 kV and above)

1.069¢ per kWh for the first 100 hours use of maximum demand

1.069¢ per kWh for the excess

Substation Credit: Available to customers where service at sub-transmission voltage (24 kV to 41.6 kV) or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of 0.3¢/kWh will be applied to the energy use associated with the first 100 hours use of maximum demand.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

(Continued on [Sheet No. D-64.00](#))

Issued January 3, 2012
D. G. Brudzynski
Vice President
Regulatory Affairs

Detroit, Michigan



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In Case No. U-16472

(Continued from [Sheet No. D-63.00](#))

STANDARD CONTRACT RIDER NO. 1.2 (CONTD)

ELECTRIC PROCESS HEAT

LATE PAYMENT CHARGE: See Section C4.8.

MAXIMUM DEMANDS: The maximum demand shall be the highest 30-minute integrated demand created during the current billing month. This clause is applicable to each voltage level served.

MINIMUM CHARGES: 1) A monthly minimum charge of \$2.10 per kW of contract capacity shall be applied to that portion of the customer's load which is served under this rider. This minimum charge will be waived if the customer over the past 12 months (including the current bill), or from the start of the contract term if less than 12 months, has averaged \$2.10 per kW per month in revenues. This minimum charge is in addition to the minimum charge under the above rates, *plus;* 2) *any applicable per meter per month surcharges.*

POWER FACTOR CLAUSE (Retail Access Service Customers Only): A power factor of less than 70% is not permitted and necessary corrective equipment must be installed by the Customer to correct to a minimum level of 70%. Power factor and excess Reactive Demand charges will be calculated at each Customer location at the time of the Location's single highest 30-minute integrated kW reading of the Interval Demand Meter during the on-peak hours of the billing period, which are those hours from 7 a.m. until 11 p.m. consistent with the ITC Open Access Transmission Tariff. Excess Reactive Demand is any Reactive Demand resulting from operations below 80% power factor. A monthly charge of \$3.50/kVAR will be applied to excess Reactive Demand.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet the normal maximum requirements of the load qualifying for service under this rider. Any single reading of the demand meter in any month that exceeds the contract capacity then in effect shall become the new contract capacity. The contract capacity for this rider shall not be included in the contract capacity established for the filed rate which is used in conjunction with this rider.

SPECIAL TERMS AND CONDITIONS: The customer is responsible for all new facilities and lines required for service under this rider. Said facilities and lines must meet all Company standards. The Company at its option may install and own said facilities under the provisions of Standard Contract Rider No. 2.

TERM: One year under written contract and month-to-month thereafter.

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Standard Contract Rider No. 2

Special Purpose Facilities

APPLICABLE TO: All Filed Rates.

The Company is, from time to time, required to install special facilities to accommodate extraordinary requirements of the customers. This results in investment in facilities that are provided for the exclusive use of the specific customer and not available to the Company for general revenue purposes. Inasmuch as such installations do not provide the proportionality of revenue to investment available in the general case, the service supplied will be subject to the following conditions:

Where the customer requests:

1. A second source of power to supply redundant service.* The second source of power to customers served from the overhead distribution system will normally be supplied from the underground distribution system.
2. Special facilities for uses which, in the opinion of the Company, will be disturbing to the normally accepted quality of commercial power.
3. Oversized equipment.
4. Special facilities not otherwise covered under Section C6.1.

The special or additional facilities can be provided under two options.

Option I:

1. Advance:

Prior to construction the customer will advance to the Company the total amount of the estimated construction costs.

2. Refund:

- (a) The Company will refund to the customer 40% of the additional annual revenue for each of the first five years of metered use. The refund, without interest, will be made one month after each full year of service. There will be no refunds for a second source of service supply or oversized equipment.
- (b) The customer will be entitled to an additional refund if there is additional utilization of the equipment by others within the first five years of service. The refund will be based on the additional annual revenue received, the portion of equipment utilized, and the time remaining to refund the original advance.
- (c) The refund cannot exceed the advance under any condition.

* Where Company policy prescribes two-line service, provisions of this rider will not apply.

(Continued from [Sheet No. D-66.00](#))

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(Continued from [Sheet No. D-65.00](#))

Standard Contract Rider No. 2 (Contd)

Special Purpose Facilities

Option I: (Contd)

3. Service Charge:

There will be a monthly charge, upon the beginning of service, equal to one-half of one percent of the advance less any refund. This charge is required to cover property taxes, insurance and maintenance and is applicable as long as the service is used.

Option II:

1. Financing:

As an alternative to the customer advancing the total amount of the estimated construction costs, the Company may finance the special or additional facilities. There would be a monthly service charge (or in special cases a minimum charge, the application of which would be determined by the Company) of 1-1/2% of the investment in the special or additional facilities.

2. Adjustment:

- (a) At the end of each year during the first five years the investment base will be reduced by 40% of the additional annual revenue from the metered use with an adjustment in the service charge. There will be no reduction in investment base or adjustment to the service charge for a second source of service supply or oversize equipment.
- (b) If there is additional utilization by others of the lines or equipment during the first five years, there will be an adjustment to the investment base and service charge based on the prorata capacity used by others.

CONTRACT TERM: The rate for service is revised by this rider modifying the contract form prescribed for one of the applicable filed rates. The contract term as to special charge is for a five year period extending thereafter from month to month until terminated by mutual consent or by thirty days' notice by either party, which may be given any time after the end of the fifth year.

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STANDARD CONTRACT RIDER NO. 3

PARALLEL OPERATION AND STANDBY SERVICE

APPLICABLE TO:	General Service Rate	Schedule Designation D3
	Interruptible General Service Rate	Schedule Designation D3.3
	Large General Service Rate	Schedule Designation D4
	Primary Supply Rate	Schedule Designation D6
	Alternative Primary Supply Rate	Schedule Designation D6.1
	Special Manufacturing Supply Rate	Schedule Designation D7
	Interruptible Supply Rate	Schedule Designation D8

PARALLEL OPERATION: The customer must meet the interconnection requirements of Detroit Edison specified in "The Michigan Electric Utility Generator Interconnection Requirements" as approved by the Michigan Public Service Commission, and must enter into an Interconnection and Operating Agreement with the Company before parallel operation will be permitted. Operating in parallel with the Company's system without written approval by the Company of the interconnection and any subsequent changes to the interconnection will make the customer subject to disconnection.

INDEMNIFICATION AND INSURANCE: Except for the acts or omissions of the Company's employees or agents which occur on the Customer's side of the point of interconnection the customer shall indemnify, defend and hold the Company and its officers, agents and employees harmless from any liabilities, claims, losses, demands, costs, damages or damage which (i) occur on the Customer's side of the point of interconnection resulting from the installation, maintenance, possession or operation of the Facility, or (ii) occur on the Company's side of the point of interconnection up to the first point of the Company's General Facility Protection if at the time of the injury or damage, the Company is not providing electric energy to the customer and the injury or damage was caused by the customer's intentional defeat of the protective relays.

The Company shall indemnify, defend and hold the Customer and its officers, agents and employees harmless from any liabilities, claims, losses, demands, costs, damages or judgments, including reasonable attorneys' fees, arising out of all personal injuries or property damages which occur on the Company's side of the point of interconnection resulting from the installation, maintenance, possession or operation of the Company's General Facilities; (i) except for the acts or omissions of the Customer's employees or agents which occur on the Company's side of the point of interconnection; and (ii) except for those injuries or damages for which the Customer is to indemnify the Company pursuant to the preceding paragraph.

The Customer taking service under this rider shall maintain and furnish current evidence of comprehensive general liability insurance in the amount of \$2,500,000 per occurrence. This insurance can be a combination of primary and excess insurance. The Company shall be named as an additional insured under the customer's policy. The customer need not provide insurance if it can demonstrate that its Tangible Net Worth as defined by GAAP is \$8,000,000 or more and provides an affidavit to that effect signed by an authorized agent of the Company. If the customer fails to provide insurance or does not meet the requirements of the preceding sentence for waiver of insurance, then the Company will purchase insurance in the amount of \$2,500,000 to protect the Company (but not the customer). The cost of such insurance will be paid by the customer. The customer's insurance, its waiver, or insurance purchased by the Company shall not limit the Customer's indemnity obligations. Parallel operation will not be permitted (or will be terminated) if the Customer fails to provide insurance, meet the waiver requirements or pay the cost of insurance obtained by the Company.

(Continued on [Sheet No. D-68.00](#))

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(Continued from [Sheet No. D-67.00](#))

Standard Contract Rider No. 3 (Cont'd)

Parallel Operation and Standby Service

STANDBY SERVICE: Customers who desire the Company to serve the power supply requirements of load that is normally served by the customer's generator or prime mover must take standby service under the provisions of this rider unless otherwise exempted by order of the Michigan Public Service Commission *or by the provisions set forth below* and must take supplemental service on one of the applicable filed rates listed above.

Customers purchasing their entire energy requirements from the Company with generators or prime movers installed for use only in emergency will not be considered as taking standby service.

Customers with generators or prime movers installed solely for use to provide a load for testing equipment such as regenerative dynamometers may elect not to purchase standby energy service for that equipment under this rider, must meet the applicable parallel operation requirements, must purchase power that would, absent this provision, be considered standby on another rate schedule and must take standby for any additional generating equipment normally serving site load.

METERING REQUIREMENTS: All customers taking service under this rider must install the necessary equipment to permit metering. The Company will supply the metering equipment. The output of customer generation or, if appropriate, the load served by another source of power or the customer's prime mover, *inflow from Detroit Edison and outflow to Detroit Edison if applicable will all* be metered with demand-recording equipment by *Detroit Edison*.

STANDBY CONTRACT CAPACITY: Standby contract capacity in kW will be established for electric capacity sufficient to meet the customer's standby load. *Unit sizes, number of units, site demands, operating characteristics and other factors impact the amount of electric capacity that is sufficient to meet the customer's standby load. Standby contract capacity will be established according to one of the following methods with the intent to use the method which best determines the electric capacity sufficient to meet the customer's standby load.*

(a) *If the customer's generating units are electrically base loaded during peak hours the standby contract capacity for billing months that include periods from calendar months June through October will be set at the 1001st highest half-hourly kW output toward internal load during billing months that include periods from calendar months June through October over the latest 12-month period. The standby contract capacity for remaining billing months will be set at the 1001st highest half-hourly kW output during those months over the latest 12-month period. The standby contract capacity will be adjusted on an ongoing basis reflecting the current month and preceding eleven months.*

“output toward internal load” means the simultaneous output of all units less excess generation flowing back through the interconnection to Detroit Edison’s system.

(b) *If the customer's generating units are operated with the intent to provide energy to the system and standby is only required for site load during outages the standby contract capacity will be set at the maximum half-hourly demand provided to the facility.*

(Continued on [Sheet No. D-69.00](#))

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(Continue from [Sheet No. D-68.00](#))

STANDARD CONTRACT RIDER NO. 3 (CONTD)

PARALLEL OPERATION AND STANDBY SERVICE

- (c) For customers with units that do not operate in parallel with the system but have the ability to connect load normally served by unmetered on site generation to the system during generation outages, (throw over standby), the standby contract capacity will be set at the maximum metered half-hourly demand thrown over to the system and supplemental demand will be the metered inflow less the metered throw over load.
- (d) For customers demonstrating unusual operating conditions, including but not limited to initial unit operation, unpredictable generation from renewable resource units or generation that follows thermal load and prolonged periods with no generation, standby contract capacity may be set by mutual agreement of the Company and the customer to levels sufficient to meet the customer's standby load.

STANDBY POWER: Standby energy is electric energy provided by Detroit Edison to serve the customer's total internal load which would have been provided by the customer's generation had it operated at its contract capacity. Standby demand is electric capacity provided by Detroit Edison to serve the customer's total internal load which would have been provided by the customer's generation had it operated at its contract capacity less any reduction the customer can accomplish by reducing the supplemental demand at the time of the daily on-peak standby demand below the maximum monthly on peak supplemental demand but not less than zero.

SUPPLEMENTAL POWER: Supplemental power is electric energy and capacity provided by Detroit Edison to serve the customer's total internal load which is in addition to that portion of the customer's total internal load equal to the standby contract capacity. For each point of service, total internal load equals the output toward internal load of the customer's generation plus the power supplied by the Company. Supplemental demand equals total internal load less standby contract capacity, but not less than zero. Supplemental high on-peak demand used to establish Power Supply Demand will be highest supplemental demand from the dates and times at which the daily on-peak standby demands are set. Supplemental power will be billed under the applicable rate schedule for supplemental service ("supplemental rate schedule").

RATES:

Power Supply Charges:

Monthly Generation Reservation Fee:

\$1.53 times the standby contract capacity in kW, per month.

Demand Charges:

A daily on-peak standby demand charge will be charged based on the determination of standby power coincident with the daily highest 30-minute integrated reading during on-peak hours of the demand meters which measure the total load served by Detroit Edison. Standby demand equals standby contract capacity minus the 30-minute output toward internal load of the customer's generator less any reduction the customer can accomplish by reducing the supplemental demand below the maximum monthly on peak supplemental demand, but not less than zero, and not greater than the total load served by the Company.

(Continued on [Sheet No. D-70.00](#))

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STANDARD CONTRACT RIDER NO. 3 (CONTD)

PARALLEL OPERATION AND STANDBY SERVICE

The daily on-peak backup demand charge is \$4.02 per kW per day during periods other than maintenance periods as defined below.

The daily on-peak backup demand charge is \$2.20 per kW per day during maintenance periods as defined below.

Energy Charge:

An energy charge for back-up and maintenance power will be charged based on standby contract capacity less the output toward internal load of the customer's generator, but not less than zero. For customers served on supplemental rate schedules D4, D6, D6.1, D7, and D8 the energy charge will be the D6 on-peak power supply energy charge, 4.408¢ per kWh, plus appropriate power supply credits, including but not limited to off-peak credit, and voltage level credit. For customers served on supplemental rate schedules D3 *and* D3.3, the energy charge will be the applicable power supply energy charge specified in the customer's supplemental rate.

The energy as stated herein, is also subject to provisions of the PSCR clause and other Surcharges and Credits Applicable to Power Supply as approved by the Commission. See Section C8.5.

Waivers and limits for demand/energy rates:

For customers taking supplemental service at demand/energy rates schedules D4, D6, D6.1 and D8, and customers switching from energy only rates to demand/energy/rates, the following applies.

If the total of daily demand charges for the month is less than the monthly generation reservation fee, then the daily demand charges will be waived for that month.

If the total of daily demand charges for the month is greater than the monthly generation reservation fee, then the generation reservation fee will be waived for that month.

If the total of daily demand charges for the month is greater than the Rider 3 Daily Demand Cap the customer will pay the Daily Demand Cap. For customers served on supplemental rates schedule D4, The Daily Demand Cap will be determined as the D6 Power Supply Demand Charge times the maximum standby contract capacity utilized plus the Rider 3 Generation Reservation Charge times the difference between the total standby contract capacity and the maximum standby utilized. For customers served on supplemental rates schedules D6, D6.1 *and* D8, The Daily Demand Cap will be determined as the D6 Power Supply Demand Charge times the maximum standby contract capacity utilized plus the difference between the product of the D6 Distribution Demand Charge times the standby contract capacity utilized and the standby Distribution Charge times the standby contract capacity utilized plus the voltage specific D6 Delivery Charge energy component applied to all standby energy delivered plus the Rider 3 Generation Reservation charge times the difference between the total standby contract capacity and the maximum standby utilized.

(Continued on [Sheet No. D-71.00](#))

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(Continued from [Sheet No. D-70.00](#))

STANDARD CONTRACT RIDER NO. 3 (CONTD)

PARALLEL OPERATION AND STANDBY SERVICE

Waivers and limits for energy-only rates:

For customers taking supplemental service on energy-only rates for the entire billing cycle, schedules D3 and D3.3 the following applies.

If the total of daily demand charges for the month is less than the monthly generation reservation fee, then the daily demand charges will be waived for that month.

If the total of daily demand charges for the month is greater than the monthly generation reservation fee, then the daily demand charges will be waived for that month provided that the supplemental rate continues as an energy-only rate. If not, then paragraphs (6)(b) and (6)(c) above will apply.

MAINTENANCE PERIODS: A customer may specify, subject to conditions below set by the Company, up to 20 on-peak days during a year as maintenance days. In addition standby daily demands on the day after Thanksgiving and on-peak days occurring during the period from December 24 through January 1 will be priced at the maintenance day rate specified above. A maintenance day is a calendar 24-hour day. Conditions for setting maintenance days:

- (a) The customer must request maintenance days in writing.
- (b) The Company must receive the request at least 45 days before the first requested maintenance day.
- (c) Requests will be honored according to the date received.
- (d) Requests may be refused by the Company if they conflict with the Company's own schedule of maintenance and expected demands. The Company will permit the customer to select alternative maintenance days.
- (e) If there is a substantial change in circumstances which make the agreed upon schedule impractical for either party, the other party upon request shall make reasonable efforts to adjust the schedule in a manner that is mutually agreeable.

(Continued on [Sheet No. D-72.00](#))

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(Continued from [Sheet No. D-71.00](#))

STANDARD CONTRACT RIDER NO. 3 (CONTD)

**PARALLEL OPERATION
AND STANDBY SERVICE**

Power Supply Pricing Option:

This option is available to customers desiring to have power supply standby energy service priced on the basis of the real time MISO locational hourly marginal energy price for the Detroit Edison-appropriate load node. Service under this provision must be taken in 12 month increments. Service taken under this option replaces all standard power supply charges. Standby energy service is limited to unforeseen generator outages, deviations from standby contract capacity and maintenance. In addition to the MISO locational hourly marginal energy price the following charges will also apply:

0.733¢/kWh for MISO network transmission costs and MISO energy market costs plus,

An administrative charge of 0.540¢/kWh plus,

A voltage level service adder of 1% for transmission, 2% for subtransmission, 7% for primary, and 12% for secondary.

Surcharges and Credits Applicable to Power Supply, excluding PSCR, as approved by the Commission. See Section C8.5.

Delivery Charges:

Service Charge:

\$210.00 per customer per month for customers served at primary voltages and above.

\$ 70.00 per customer per month for customers served at secondary voltages.

Distribution Charge:

Distribution charges will be as follows:

\$2.64 per kW at primary voltage applied to the standby contract capacity

\$0.99 per kW at subtransmission voltage applied to the standby contract capacity

\$0.66 per kW at transmission voltage applied to the standby contract capacity

For service provided in conjunction with a secondary voltage base rate the Delivery Charge will be the greater of \$8.89 per kW applied to standby contract capacity or 3.555¢/kWh applied to all standby energy delivered.

Substation Credit: Available to customers served at subtransmission voltage level (24 to 41.6 kW) or higher who provide the on-site substation including all necessary transforming, controlling, and protective equipment. A credit of \$.30 per kW shall be applied to the distribution demand charge per kW of standby capacity. An additional credit of 0.040¢ per kWh of standby delivered will be given where the service is metered on the high voltage side of the transformer.

Surcharges and Credits Applicable to Delivery Service: As approved by the Commission. See Section C9.8.

(Continued on [Sheet No. D-73.00](#))

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(Continued from [Sheet No. D-72.00](#))

Standard Contract Rider No. 3 (Cont'd)

Parallel Operation and Standby Service

ADJUSTMENT OF PRIOR RATCHETS: When a customer takes standby service under Rider No. 3, the setting or the increasing or decreasing of standby contract capacity will affect the existing ratchet levels on the supplemental rate as follows:

- (a) An amount in kW equal to the initial standby contract capacity (or to the increase or decrease) will be subtracted from (or subtracted from or added to) the existing ratcheted maximum demand level for customers on supplemental rates D6, D6.1, D7 and D8.
- (b) An amount in kW equal to 65% of the initial standby contract capacity (or of the increase or decrease) will be subtracted from (or subtracted from or added to) the existing ratcheted on-peak billing demand level for customers on supplemental rates D4, D6, D6.1, D7, and D8.

LATE PAYMENT CHARGE: See Section C4.8.

SCHEDULE OF ON-PEAK HOURS: See Section C11.

POWER FACTOR CLAUSE: The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Customers are responsible for correcting power factors less than 70% at their own expense. The size, type and location of any power factor correction equipment must be approved by the Company. Such approval will not be unreasonably withheld. A penalty will be applied to the total amount of the monthly billing for supplemental and standby service for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The penalty will not be applied to the on-peak billing demand ratchet nor to the minimum contract demand of the supplemental rate, but will be applied to metered quantities.

INTERRUPTIBLE STANDBY SERVICE:

- (a) Interruptible standby service is supplied in conjunction with supplemental rates D8 and D3.3, provided that the customer qualifies for D8 or D3.3 under the provisions of the respective rates.
- (b) For customers taking service on supplemental rate D8, the daily demand charge for back-up power and maintenance power will be waived on a day that the Company requests interruption, provided that the customer is assessed neither a non-interruption fee nor a non-interruption penalty under the terms of the D8 rates.
- (c) For customers taking service on supplemental rate D3.3, the customer's generator, prime mover, or other source of energy must be connected only to the interruptible circuit. The energy charge for back-up power and maintenance power will be the same as the energy charge for the D3.3 rate. The daily demand charge will be waived on a day that the Company interrupts the circuit.
- (d) Interruptible standby service will also be supplied in conjunction with any new interruptible supplemental rates approved by the Michigan Public Service Commission after January 1, 1989, under terms to be incorporated in this section.

(Continued on [Sheet No. D-74.00](#))

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(Continued from [Sheet No. D-73.00](#))

Standard Contract Rider No. 3 (Cont'd)

Parallel Operation and Standby Service

LATE PAYMENT CHARGE: See Section C4.8.

SCHEDULE OF ON-PEAK HOURS: See Section C11.

POWER FACTOR CLAUSE: The rates and charges under this tariff are based on the customer maintaining a power factor of not less than 85% lagging. Customers are responsible for correcting power factors less than 70% at their own expense. The size, type and location of any power factor correction equipment must be approved by the Company. Such approval will not be unreasonably withheld. A penalty will be applied to the total amount of the monthly billing for supplemental and standby service for power factor below 85% lagging in accordance with the table in Power Factor Determination, Section C12. The penalty will not be applied to the on-peak billing demand ratchet nor to the minimum contract demand of the supplemental rate, but will be applied to metered quantities.

SPECIAL TERMS AND CONDITIONS: Customer-owned equipment must be operated so that voltage fluctuations on the Company's system shall not exceed permissible limits.

Upon the request of a customer, the Company will provide monthly reports of the data from the meters measuring the load served by the Company and the output of the customer's generators, for a charge of \$10.00 per report per month. Each report contains data from one meter.

Application of Rider No. 2 for redundant service for customers served under this rider will be the same as for customers without generating equipment.

Service under this rider will not be affected by ownership of the generation facility provided that: (1) the generation facility is located on the customer's site, (2) the load served by the generation facility is on the same site, and (3) the total output of the generation facility is utilized by the customer or sold to the Company.

CONTRACT TERM: The contract term is for a five-year period unless terminated by mutual consent and extending thereafter from month to month until terminated by mutual consent or by thirty day's written notice by either party.

DISPUTE RESOLUTION PROCEDURE: Any customer who disputes a determination or interpretation made by the Company under this rider may deliver a written notice of such dispute to the customer's service representative at the Company. The Company will respond to the notice in writing within 20 working days.

Disputes between the Company and the customer may be presented to the Michigan Public Service Commission for informal resolution.

Any customer who disputes a determination made by the Company under this rider may at any time file a formal complaint with the Office of the Secretary of the Michigan Public Service Commission.

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HOLD FOR FUTURE USE

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Standard Contract Rider No. 4

Resale of Service

APPLICABLE TO:	General Service Rate	Schedule Designation D3
	Large General Service Rate	Schedule Designation D4
	Primary Supply Rate	Schedule Designation D6
	Retail Access Service Tariff	Schedule Designation EC2

Electricity supplied to a customer is for his exclusive use on the premises to which it is delivered by the Company. Customers desiring to resell electric service to their tenants must secure authority from the Company which will be evidenced by a rider attached to the contract for service. Resale option is closed to new service or expanded service for resale for residential service as of March 31, 1979.

If the reselling customer elects to take service under the Detroit Edison Retail Access Service Tariff, the ultimate user (residential, commercial or industrial customer) shall be served and charged for such service under the Retail Access Service Tariff in the Company's rate schedule available for similar services under like conditions.

The reselling customer shall provide notice to tenants of the decision to obtain electric service pursuant to the Retail Access Service Tariff and that as a result power supply charges are no longer regulated by the Michigan Public Service Commission.

MULTIPLE OCCUPANCY BUILDINGS:

The owner or operator of an office building, apartment building, etc., with at least thirty tenants (or less at the option of the Company where extensions of the Company service to the individual tenants is impractical) whose combined requirements regularly exceed 20,000 kilowatthours per month, may purchase electric energy from the Company for resale to the tenants of the building on condition that service to each tenant shall be separately metered, and that the tenants shall be charged for such service the current rate of the Company for similar service under like conditions.

No landlord may charge his tenants more nor less for resold electric service purchased from the Company than the tenants would be charged by the Company if served directly. If this requirement is violated, the Company may refuse service to the building. The renting of premises with the cost of electric service included in the rental is held not to be a resale of service. The Company does not furnish nor maintain meters for the resale of energy by landlords to tenants.

MOBILE HOME PARKS:

In some cases it is not practical for the Company to furnish service directly to individual mobile homes in mobile home parks. Because of this, the park operators may purchase electric energy from the Company for resale to tenants, provided that service to each tenant buying energy shall be separately metered and billed at the Company's Residential Service Rate.

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(Continued from [Sheet No. D-76.00](#))

Standard Contract Rider No. 4 (Contd)

Resale of Service

The Operator shall provide the distribution system in the park and meters acceptable to the Company suitably protected from the weather. The Operator may purchase meters from the Company when available, or from a vendor other than the Company.

If an Operator resells energy without complying with the above provisions, the Company may refuse service to him.

CONTRACT TERM: The customer may take service at any applicable filed rate listed above but he will be required to sign a rider modifying the contract form prescribed for one of the applicable filed rates.

The service contract shall provide that each ultimate user's billing shall be audited once every nine (9) to fifteen (15) months. At the option of the reselling customer, the audit will be conducted either by the Company or by an independent auditing firm, approved by the Company. The reselling customer will be assessed a reasonable fee for an audit conducted by the Company. Where the audit is conducted by an independent auditing firm, a certified copy of the results of such audit shall be immediately submitted to the Company in a form approved by the Company.

The service contract shall also provide that the reselling customer will be responsible for the testing of the ultimate user's meters at least once every three (3) years, and that the accuracy of such meters be maintained within the limits as prescribed in Michigan Public Service Commission Order No. U-6400. Meters shall be tested only by outside testing services or laboratories approved by the Company and a certified copy of all testing results shall be immediately submitted to the Company.

A record of each meter, including testing results, shall be kept by the reselling customer during his use of the meter and for an additional period of one year thereafter. When requested, the reselling customer shall submit certified copies of said test results to the Company.

The reselling customer shall supply each of his ultimate users with an electrical system adequate to meet the needs of the ultimate user with respect to the nature of service, voltage level, and other conditions of service. The customer who resells his power at Residential Rates shall receive a 15% discount on the resale portion of his bills, provided the reselling customer complies with the terms of Standard Contract Rider No. 4. Such discount shall cover the periods for which the customer provides positive evidence of compliance. The 15% discount does not apply to customers taking service under the Retail Access Service Tariff.

If the reselling customer fails to meet his obligations under this rule, the Company shall immediately notify the Michigan Public Service Commission Staff. If, after review with the reselling customer, the problem is not resolved, the Company will discontinue electric service until such time as the problem is resolved. The Company shall not incur any liability as the result of this discontinuance of electric service.

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Standard Contract Rider No. 5

Cogeneration

AVAILABILITY: Customers who employ cogeneration technology as an energy source and sell electric output of their cogeneration facility to the Company may receive service under the filed rates and applicable riders:

General Service Rate	Schedule Designation D3
Interruptible General Service Rate	Schedule Designation D3.3
Large General Service Rate	Schedule Designation D4
Primary Supply Rate	Schedule Designation D6
Alternative Primary Supply Rate	Schedule Designation D6.1
Interruptible Supply Rate	Schedule Designation D8

This rate is available only to customers who obtain qualifying status from the Federal Energy Regulatory Commission. Prior to interconnection, the customer shall provide a copy of such notification to the Company.

CHARACTER OF SERVICE:

- A. Sales to customers:
 - 1. As specified under the applicable rate.
- B. Sales by the Customer to the Company:
 - 1. As specified under contractual agreement.
- C. The customer shall install, at his expense, the necessary controlling, additional metering and protective equipment according to specifications of the Company. The Company shall not be liable for damage to customer-owned equipment caused by the interconnection.
- D. Billing for both sales to and sales from the customer will be calculated by the Company.

RATE:

- A. Sales to Customers:
 - 1. As specified under the applicable filed rate.
- B. Sales by the Customer to the Company:
 - 1. New Facilities:
 - a. Energy Sales: The rate will be based on the forecasted average incremental cost of energy. The rates will recognize time-of-day price variations based on a weekly forecast.

(Continued on [Sheet No. D-79.00](#))

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(Continued from [Sheet No. D-78.00](#))

Standard Contract Rider No. 5 (Contd)

Cogeneration

- b. Capacity and Energy Sales: The rate will be based on the combined capacity and energy costs of the Belle River Power Plant, adjusted to reflect the effects of inflation between the in-service date of the cogeneration facility and the in-service date of the Belle River Power Plant. This rate, so determined, will be adjusted to be reflective of the forecasted capacity factor, availability, operating schedule and the ability of the Company to dispatch the said cogeneration unit. The rate so determined will apply to facilities with a capacity of 100 kW or less. The rate for facilities having a capacity of over 100 kW will be made under negotiated agreement.
2. Old Facilities:
 - a. Energy Sales: The rate will be based on the forecasted average incremental cost of energy. The rate will recognize time-of-day variations based on a weekly forecast.
 - b. Capacity and Energy Sales: No recognition will be made for capacity installed before November 1978 unless substantial proof is shown that the generator and protective equipment is new or equivalent to new. Refurnishing old equipment will not qualify the facility as new capacity.
 3. A one mill per kilowatthour charge shall be assessed to all customers on this rate to offset the Company's additional administrative expenses associated with these transactions.

SPECIAL PROVISIONS AND CONDITIONS:

A. Cogeneration Capacity Sales to the Company:

1. Cogeneration Planned Maintenance: Annually the customer shall supply the Company with a schedule of all planned outages for the year in question. The customer and the Company shall agree to a maintenance schedule of mutual benefit.
2. Contract Capacity: The contract must specify the minimum and maximum kW capacity available to the utility from the cogeneration facility under normal operating conditions.
3. Availability: The customer shall supply the Company with a statement of the projected annual availability of the capacity stated in the Contract Capacity.
4. Capacity Factor: The customer shall supply the Company with a statement of the projected capacity factor and operating schedule for the cogeneration facility in question.
5. Failure of the cogeneration facility to operate at the level of performance forecasted by the customer shall result in the Company adjusting the capacity purchase price to reflect the demonstrated performance of the cogeneration facility in question.

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Standard Contract Rider No. 5 (Contd)

Cogeneration

- B. Maintenance or Back-up Capacity: Cogeneration customers desiring standby capacity for equipment failure or planned maintenance may contract with the Company the amount of standby capacity desired. The charge for the standby capacity will be calculated at the approved Standard Contract Rider No. 3 provision.

Optional Standby Rate: The customer may elect to pay for standby service at the following rate:

1. \$0.60 per kW per day, plus
2. The incremental energy cost associated with the energy to service the capacity, plus
3. full payment of the maximum demand charge in the rate the customer takes service

DEFINITIONS:

1. Cogeneration Technology: The sequential use of steam, exhaust steam or waste steam for the generation of electricity. The overall thermal efficiency of the cogeneration facility must always be in excess of 45%.
2. New Facility: Construction of new or additional capacity which commenced on or after November 9, 1978.
3. Old Facility: Construction of capacity which commenced before November 9, 1978.
4. Average Incremental Energy Cost: The cost of a block of energy of varying size which is normally made up of the most expensive resources, either purchased or generated, to serve firm customer load. The size of the varying block depends upon the amount of energy available from qualified facilities.

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Standard Contract Rider No. 6

Small Power Producing Facilities

AVAILABILITY: Customers who develop small power producing facilities and sell electric output from their facility to the Company may receive service under the filed rates and applicable riders:

Residential Service Rate	Schedule Designation D1
Residential Space Heating Rate	Schedule Designation D2
General Service Rate	Schedule Designation D3
Interruptible General Service Rate	Schedule Designation D3.3
Large General Service Rate	Schedule Designation D4
Primary Supply Rate	Schedule Designation D6
Alternative Primary Supply Rate	Schedule Designation D6.1
Interruptible Supply Rate	Schedule Designation D8

This rate is available only to customers who obtain qualifying status from the Federal Energy Regulatory Commission. Prior to interconnection, the customer shall provide a copy of such notification to the Company.

CHARACTER OF SERVICE:

- A. Sales to Customers:
 - 1. As specified under the applicable rate.
- B. Sales by the Customer to the Company:
 - 1. As specified under contractual agreement.
- C. The customer shall install, at his expense, the necessary controlling, additional metering and protective equipment according to specifications of the Company. The Company shall not be liable for damage to customer-owned equipment caused by the interconnection.
- D. Billing for both sales to and sales from the customer will be calculated by the Company.

RATE:

- A. Sales to Customers:
 - 1. As specified under the applicable filed rate.
- B. Sales by the Customer to the Company:
 - 1. New Facilities:
 - a. Energy Sales: The rate will be based on the forecasted average incremental cost of energy. The rates will recognize time-of-day price variations based on a weekly forecast.

(Continued on [Sheet No. D-82.00](#))

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(Continued from [Sheet No. D-81.00](#))

Standard Contract Rider No. 6 (Contd)

Small Power Producing Facilities

- b. Capacity and Energy Sales: The rate will be based on the combined capacity and energy costs of the Belle River Power Plant adjusted to reflect the effects of inflation between the in-service date of the cogeneration facility and the in-service date of the Belle River Power Plant. The rate so determined will be adjusted to be reflective of the forecasted capacity, availability, operating schedule and the ability of the Company to dispatch the said small power producing facility. The rate so determined will apply to facilities with a capacity of 100 kW or less. The rate for facilities having a capacity of over 100 kW will be made under negotiated agreement.
2. Old Facilities:
 - a. Energy Sales: The rate will be based on the forecasted average incremental cost of energy. The rate will recognize time-of-day variations based on a weekly forecast.
 - b. Capacity and Energy Sales: No recognition will be made in payment for capacity installed before November 1978 unless substantial proof is shown that the generator and protective equipment is new or equivalent to new. Refurbishing old equipment will not qualify the facility as new capacity.
 3. A one mill per kilowatthour charge shall be assessed to all customers on this rate to offset the Company's additional administrative expenses associated with these transactions.

SPECIAL PROVISIONS AND CONDITIONS:

- A. Small Power Producing Facility Capacity Sales to the Company:
 1. Small Power Producing Facility Planned Maintenance: Annually the customer shall supply the Company with a schedule of all planned outages for the year in question. The customer and the Company shall agree to a maintenance schedule of mutual benefit.
 2. Contract Capacity: The contract must specify the minimum and maximum kW capacity available to the utility from the small power producing facility under normal operating conditions.
 3. Availability: The customer shall supply the Company with a statement of the projected annual availability of the capacity stated in the Contract Capacity.

(Continued on [Sheet No. D-83.00](#))

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Standard Contract Rider No. 6 (Contd)

Small Power Producing Facilities

4. Capacity Factor: The customer shall supply the Company with a statement of the projected capacity factor and operating schedule for the small power producing facility in question.
 5. Failure of the small power producing facility to operate at the level of performance forecasted by the customer shall result in the Company adjusting the Capacity purchase price to reflect the demonstrated performance of the small power producing facility in question.
- B. Maintenance or Back-Up Capacity: Small power producing customers desiring standby capacity for equipment failure or planned maintenance may contract with the Company the amount of standby capacity desired. The charge for the standby capacity will be calculated at the approved Standard Contract Rider No. 3 Provision.

Optional Standby Rate: The customer may elect to pay for standby service at the following rate:

1. \$0.60 per kW per day, plus
2. The incremental energy cost associated with the energy to service the capacity, plus
3. Full payment of the maximum demand charge in the rate the customer takes service.

DEFINITIONS:

1. Small Power Producing Facility: Produces electric energy solely by the use, as a primary energy source of biomass, waste, renewable resources, or any combination thereof and has a power production capability which together with any other facilities located at the same site is not greater than 80 MW.
2. New Facility: Construction of new or additional capacity which commenced on or after November 9, 1978.
3. Old Facility: Construction of capacity which commenced before November 9, 1978.
4. Average Incremental Energy Cost: The cost of a block of energy of varying size which is normally made up of the most expensive resources, either purchased or generated, to serve firm customer load. The size of the varying block depends upon the amount of energy available from qualified facilities.

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STANDARD CONTRACT RIDER NO. 7

GREENHOUSE LIGHTING SERVICE

APPLICABLE TO: General Service Rate
Large General Service Rate

Schedule Designation D3
Schedule Designation D4

Available on an optional basis to customers desiring high intensity discharge lighting service for greenhouses or other environmentally controlled growing facilities as a daylight supplement. All lighting on this rider shall be separately metered. The customer will furnish, install, own, and maintain all equipment comprising the lighting system. No other device may be connected to this circuit except for controls, lighting and associated equipment.

HOURS OF SERVICE: Dusk to dawn service for circuits controlled by photo-sensitive or clock timing devices.

CURRENT, PHASE AND VOLTAGE: Alternating current, 60 hertz, single phase, nominally at 120/240 volts, three-wire; or three-phase, four-wire, Y connected at 208Y/120 volts; or under certain conditions three-phase, four-wire, Y connected at 480Y/277 volts.

RATE PER MONTH:

Full Service Customers:

Power Supply Charge:

Energy Charge: **4.340¢** per kWh for all kWh

Delivery Charges:

Service Charge: \$1.95 per month
Distribution Charge: **1.983¢** per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$1.95 per month
Distribution Charge: 1.754¢ per kWh for all kWh

Surcharges and Credits: As approved by the Commission. See Section C9.8.

(Continued on [Sheet No. D-85.00](#))

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(Continued from [Sheet No. D-84.00](#))

**STANDARD CONTRACT RIDER NO. 7 (CONTD)
SERVICE**

GREENHOUSE LIGHTING

BILLING: Billing will be on a monthly basis.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge *plus any applicable per meter per month surcharges.*

CONTRACT TERM: The customer shall contract to remain on this rate for at least 12 months, terminable on three days' written notice after the initial 12 months by either party. Where special services are required, or where the investment to serve is out of proportion to the revenue obtainable therefrom, the term will be as specified in the applicable rider.

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(Continued from [Sheet No. D-86.00](#))

STANDARD CONTRACT RIDER NO. 8 (CONTD)

COMMERCIAL SPACE HEATING

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus any applicable per meter per month surcharges.

CONTRACT TERM: This rate is made effective by a rider modifying the contract form prescribed for one of the applicable filed rates listed above. The contract term is co-extensive with the contract term of the applicable filed rate under which service is being taken.

INSULATION STANDARDS FOR ELECTRIC HEATING: See Section C4.9.

OPTIONAL PROVISION FOR CERTAIN COMMON AREA ACCOUNTS: Electric heating and common area usage of apartment or condominium accounts supplied through a single meter and billed under the terms of the Domestic Space Heating Rate D2 prior to September 28, 1978 may be billed under this provision without the necessity of separate metering if an initial block of kilowatthours is billed at the current General Service Rate D3. This initial block of kilowatthours will be calculated each November by averaging the usage during the previous billing months of June through October.

Full Service Customers:

Usage in excess of the initial block of kilowatthours per month shall be billed at a power supply charge of **8.600¢** per kilowatthour during the billing months of June through October and **5.514¢** per kilowatthour during the billing months of November through May. A Distribution charge of **3.306¢** per kWh for all kWh shall also be applied. The only service charge to be billed to a customer utilizing this provision will be the D3 service charge.

Retail Access Service Customers:

Usage in excess of the initial block of kilowatthours per month shall be billed a distribution charge of **2.955¢** per kWh for all kWh.

SUPPLEMENTAL SPACE HEATING PROVISION: This provision is available to customers taking service under the General Service Rate D3 or the Large General Service Rate D4 who purchase energy for a minimum of 10 kW of supplemental, permanently installed, electric space heating equipment. To qualify for this provision, a customer must certify in writing the amount of permanently installed space heating equipment, subject to inspection at the option of the Company, and have the said equipment on separately metered circuits to which no other device is connected. Section C4.9, Insulation Standards for Electric Heating, will not apply to this provision.

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STANDARD CONTRACT RIDER NO. 9

ECONOMIC DEVELOPMENT

APPLICABLE TO: **Primary Supply Rate** **Schedule Designation D6**
 Alternative Primary Supply Rate **Schedule Designation D6.1**

AVAILABILITY:

This rider is available to Full Service and Retail Access Service customers that add Qualifying New Load on or after January 26, 2010 or *pre-existing Rider 9 customers*. Qualifying New Load is defined as load in kW that meets the following requirements:

New Locations

For new locations Qualifying New Load must be a minimum of 1,000 kW on the base rate.

Existing Locations

For existing locations Qualifying New Load must be the direct result of new equipment additions and meet the following minimum size requirements:

- 1) Qualifying New Load must be at least 20% of the highest 30-minute integrated site level demand over the previous 12 months but not less than 500 kW; and
- 2) The combined existing base rate load and Qualified New Load must be at least 1,000 kW.

Customers desiring service under this rider *for loads at existing locations* must provide the Company with an affidavit attesting to the addition of new equipment and the size of the Qualifying New Load. ***The increase in connected load cannot be due to a relocation of work from another facility in Michigan that had been in operation at any time during the prior 12 months or due to fuel switching.***

METERING REQUIREMENTS: The Qualifying New Load shall be separately metered. The Company and Customer may – as an alternative to separate metering – mutually agree to negotiate an amount of demand or energy usage for billing under this Rider for situations where it might be cost-prohibitive to separately meter the Qualifying New Load.

RATE PER MONTH:

Full Service Customers:

For New Customers the Qualifying New Load will be priced per the Full Service charges for the applicable base rate and will receive an Economic Development Credit.

For Pre-Existing Rider 9 Customers for purposes of applying the Economic Development Credit, the number of months of service taken under the previous Rider 9 will be applied to the discount schedule below to determine the initial Economic Development Credit level.

For Example: A Customer with 26 months of service under the previous Rider 9 would have their initial Economic Development Credit calculated using the 22% discount corresponding to the 3rd 12 months.

Economic Development Credit: The monthly credit for the Economic Development Rider shall be structured using a decreasing scale of percentages over the term of the contract and applied as follows:

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(Continued from [Sheet No. D-88.00](#))

STANDARD CONTRACT RIDER NO. 9 (CONTD)

ECONOMIC DEVELOPMENT

<i>1st 12 Months</i>	30 %
<i>2nd 12 Months</i>	27 %
<i>3rd 12 Months</i>	22 %
<i>4th 12 Months</i>	15 %
<i>5th 12 Months</i>	6 %

The Rider 9 credit shall be calculated by taking the incremental base rate revenue (excluding surcharges and the PSCR factor) times the corresponding percentage for a given year. The result shall then be deducted from the customer's bill.

This provision shall not be taken in conjunction with the Experimental Load Aggregation Provision (ELAP).

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8.

Retail Access Service Customers:

Economic Development Credit: The monthly credit for the Economic Development Rider shall be structured using a decreasing scale of percentages over the term of the contract and applied as follows:

<i>1st 12 Months</i>	30 %
<i>2nd 12 Months</i>	27 %
<i>3rd 12 Months</i>	22 %
<i>4th 12 Months</i>	15 %
<i>5th 12 Months</i>	6 %

The Rider 9 credit shall be calculated by taking the incremental base rate revenue times the corresponding percentage for a given year. The result shall then be deducted from the customer's bill.

This provision shall not be taken in conjunction with the Experimental Load Aggregation Provision (ELAP).

Surcharges and Credits: As approved by the Commission. See Section C9.8.

CONTRACT TERM: *The rate will be available for up to a five-year period beginning from the effective date of the contract (new or previous) and not later than October 5, 2013.*

Once enrolled, the customer must maintain 75% of the incremental contracted Maximum Demand, in addition to their base load, over the term of the contract. If the annual average incremental Maximum Demand falls below the 75% floor at any time within the term of the contract, the Company shall remove the customer from this provision and the customer shall be required to return 50% of the Rider 9 credit distributed to them for the corresponding year in which the customer was removed from this provision.

If any new and/or relocating customer requires an extended period of time to achieve the increase in connected load the customer shall provide the Company written notice indicating the anticipated date in which they expect to reach the 1,000 kW minimum load requirement. Once the customer achieves the minimum load requirement, the customer shall begin receiving the appropriate credit under this service provision based upon the time elapsed from the written notification date until the actual 1,000 kW requirement is met.

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Standard Contract Rider No. 10

Interruptible Supply Rider

AVAILABILITY OF SERVICE: Available to Primary Supply Rate (D6) and Alternative Primary Supply Rate (D6.1) and *Special Manufacturing* Supply Rate (D7) customers desiring interruptible service for a total of not less than 50,000 kilowatts of contracted interruptible service at a single location. The total contracted interruptible capacity on this tariff is limited to 400,000 kilowatts. This rider is effective for service rendered on and after January 1, 1993.

The contracted interruptible capacity limit on this tariff shall be increased to 525,000 kilowatts in 1994 and 650,000 kilowatts in 1995. The increase shall apply to customers desiring interruptible service for a total of not less than 5,000 kilowatts of contracted interruptible service at a single location.

In the event the total contracted interruptible capacity is less than the approved limit specified above, the Company may offer the remaining capacity, to otherwise eligible customers willing to contract for less than the minimum contract capacity amounts specified above.

CURRENT, PHASE AND VOLTAGE: Alternating current, three-phase, nominally at 4,800, 13,200, 24,000, 41,570 or 120,000 volts at the option of the Company. For definition of customer voltage level, see Section C13.

CONDITIONS OF INTERRUPTION: The Company will notify the customer as to the amount of total load on this rider to be curtailed. This notification will be stated as a percentage of total load being supplied on this rider for the hour immediately preceding notification of interruption and will be the same percentage for all customers. Although actual load at time of interruption may vary from contract capacity, the total measured load on this rider shall be subject to curtailment by the Company.

The customer shall be provided, whenever possible, notice in advance (generally 1 hour) of probable interruption and the estimated duration of the interruption. The Company reserves the right to provide less than 1 hour's notice but not less than 10 minutes, if in the Company's sole determination such interruption is either desirable or necessary. Interruptions will be those necessary to maintain system integrity. Interruptions will be in accordance with procedures set forth in the Emergency Electrical Procedures Section C3.

If the customer fails to curtail load as requested, the Company reserves the right to interrupt the customer's total separately metered load on this rider, or total plant if not separately metered, and the customer will be billed at the rate of \$10 per kW per instance applied to contract capacity.

In addition, the interruptible contract capacity of a customer who does not interrupt shall be immediately reduced by the amount by which the customer failed to interrupt, unless the customer demonstrates that failure to interrupt was beyond its control.

CONTRACT CAPACITY: Customers shall contract for a specified capacity in kilowatts sufficient to meet the customers' maximum interruptible requirements, but not less than the minimum contract capacity amounts, specified above. Demand/Energy in excess of the contracted load level will be billed under the applicable Primary Supply Rate. The contract capacity shall not be decreased during the term of the contract and subsequent renewal periods as long as service is required unless there is a specific reduction in connected load. Capacity disconnected from service under this rider shall not be subsequently served under any other tariff during the term of this contract and subsequent renewal periods.

(Continued on [Sheet No. D-91.00](#))

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STANDARD CONTRACT RIDER NO. 10 (CONTD)

INTERRUPTIBLE SUPPLY RIDER

RATE PER MONTH:

Full Service Customers:

Power Supply Charges:

Energy Charges:

Generation capacity charge of **4.933¢** per kWh for all kWh plus,

An hourly power supply cost charge applied to all kWh plus,

A monthly capacity charge in \$ per customer plus,

A voltage level service adder. The total hourly power supply cost charges for the billing month will be multiplied by the following amounts:

- 8% for service at primary voltage
- 3% for service at subtransmission voltage
- 1% for service at transmission voltage

Hourly Power Supply Cost Charge: The hourly power supply cost charge shall be based on the average cost of the resources required to serve the hourly loads under this rider. Customers will be provided with an hourly estimate of the power supply cost, but at the conclusion of each billing cycle the Company will determine the hourly allocation of resources actually serving the hourly loads under this rider, and will determine the hourly power supply cost charge as follows:

For R10 energy supplied by Company generation, the hourly power supply cost (\$/MWh) shall be based on the monthly cost of fuel by fuel type for the generating unit(s) identified as serving this load. The monthly cost of fuel shall include only those fuel costs incurred for electric generation and will be determined as follows:

1. Each generating plant's monthly booked fuel cost (\$) by fuel type shall be divided by each plant's consumption (MMBTU) by fuel type.
2. This amount (\$/MMBTU) by fuel type will be multiplied by each unit's consumption (MMBTU) by fuel type to obtain the fuel cost (\$) by fuel type for each generating unit.
3. The fuel cost (\$) by fuel type shall be summed for the unit and divided by the unit's total MMBTU consumption.
4. This amount (\$/MMBTU) will be multiplied by the unit's total consumption (MMBTU) for electric generation resulting in the unit's monthly cost of fuel (\$) for electric generation.

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(Continued from [Sheet No. D-91.00](#))

STANDARD CONTRACT RIDER NO. 10 (CONTD)

INTERRUPTIBLE SUPPLY RIDER

5. The unit's monthly cost of fuel (\$) for electric generation will be divided by the unit's net generation (MWh) to determine the hourly power supply cost (\$/MWh) for the month.

For R10 energy supplied by purchased power, the hourly power supply cost charge will be calculated by dividing the total cost for the resource (excluding any costs allocated to the R10 customer via the monthly capacity charge) by the total energy for the resource.

Monthly Capacity Charge: The monthly capacity charge for fixed purchased power costs associated with power purchased for capacity deficiency reasons will be determined as follows:

When power is purchased to meet a capacity deficiency and that purchase is identified as serving R10 load, the fixed purchase costs associated with the power transaction shall be borne by R10 customers. The amount of the fixed purchased costs, including any minimum purchase costs, charged to each R10 customer shall be determined by multiplying the fixed purchase costs, expressed in \$/MW, by the greater of either the scheduled R10 load (MW) or the actual load (MW) for each customer for the period during which the power was purchased to serve R10 load.

Power Supply Pricing Option:

Energy Charge:

This option is available to customer's desiring alternative power supply pricing based on MISO market pricing. Charges under this provision shall replace the energy charges above. Customers must transfer 100% of their Rider 10 requirements to this provision. Service under this provision must be taken in 12 month increments. The Energy charge will be the real time MISO locational hourly marginal energy price for the Detroit Edison-appropriate load node. In addition to the MISO locational hourly marginal energy price the following charges will also apply:

0.733¢/kWh for MISO network transmission costs and MISO energy market costs plus,
An administrative charge of 0.54¢/kWh plus,
A voltage level service adder of 1% for transmission, 2% for subtransmission and 7% for primary.

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24kV) **\$4.47** per kW of maximum demand and **0.749¢** per kWh for all energy delivered.

For service at subtransmission voltage (24 to 41.6 kV) **\$2.93** per kW of maximum demand and **(1.689)¢** per kWh for all energy delivered.

For service at transmission voltage (120 kV and above) **\$1.86** per kW of maximum demand and **(1.703)¢** per kWh for all energy delivered.

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STANDARD CONTRACT RIDER NO. 10 (CONTD)

INTERRUPTIBLE SUPPLY RIDER

Substation Credit: Available to customers where service at subtransmission voltage level or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Sections C8.5 and C9.8

Retail Access Service Customers:

Delivery Charges:

Service Charge: \$275 per month

Distribution Charges:

For primary service (less than 24kV) **\$4.00** per kW of maximum demand

For service at subtransmission voltage (24 to 41.6 kV) **\$1.50** per kW of maximum demand

For service at transmission voltage (120 kV and above) **\$1.00** per kW of maximum demand.

Substation Credit: Available to customers where service at subtransmission voltage level or higher is required, who provide the on-site substation including all necessary transforming, controlling and protective equipment. A credit of \$.30 per kW of maximum demand shall be applied to the maximum demand charge. A credit of .040¢ per kWh shall be applied to the energy charge where the service is metered on the primary side of the transformer.

Surcharges and Credits: As approved by the Commission. See Section C9.8.

LATE PAYMENT CHARGE: See Section C4.8.

MINIMUM CHARGE: The Service Charge plus the Maximum Demand Charge, plus all applicable energy charges plus any applicable per meter per month surcharge.

MAXIMUM DEMAND: The maximum demand shall be the highest 30-minute demand created during the previous 12 billing months, including the current month but not less than 50% of the contract capacity. This clause is applicable to each voltage level served.

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Standard Contract Rider No. 10 (Contd)

Interruptible Supply Rider

POWER FACTOR CLAUSE: Shall be the Power Factor Clause as defined in the Primary Supply Rate (D6).

SPECIAL TERMS AND CONDITIONS: Customer-owned equipment must be operated so the voltage fluctuations on the primary distribution system of the Company shall not exceed permissible limits.

The customer will own and maintain the necessary equipment to separate the interruptible load from the firm power load. This equipment must meet the Company standards. The customer must also provide space for the separate metering of the interruptible load.

The interruptible load shall not be served from firm power circuits at any time. Violations of this provision will result in a charge of **\$10** per kilowatt per month applied to the interruptible load determined to have been served from firm power circuits.

In order to implement Company initiated interruptions, the Company shall install and maintain, at the customer's expense, any equipment necessary to permit the Company to control interruptions of the customer's load and any facilities necessary to transmit and receive information regarding hourly energy costs and real-time monitoring of the customer's load. The Company will conduct at least once a year a physical test of this equipment to verify that it is functioning properly. The customer is also required to provide the Company with an hourly schedule of expected customer loads. These hourly schedules will be delivered to the Company weekly and no later than Thursday for estimates for the following week.

Electric energy from any source, other than the Company's, will be used to first reduce sales on this rider. Standby service will not be billed at this rider, but must be taken under Riders No.3, No.5, or No.6.

CONTRACT TERM: The contract term is 2 years, extending thereafter from month-to-month until terminated by *1* year written notice by either party. Once notice of termination is given by the customer, such notice cannot be withdrawn without full permission of the Company. For the first year of service under this rider, the customer shall have the right to terminate the contract and return to service under the Company's rates for firm service by paying an amount equal to the D6 on-peak billing demand charge times the contract capacity for the number of months served under this rider.

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Standard Contract Rider No. 12

Capacity Release

AVAILABILITY OF SERVICE: Available to customers desiring a voluntary capacity release payment for loads not less than 250 kW at a single location. The customer must reduce load by at least 50% of the normal load of the facility. At the option of the Company, the 250 kW and 50% minimum loads may be waived when the load is separately metered.

TERMS OF SERVICE: Customers will be requested to curtail load upon notice from the Company. The customer shall be provided, whenever possible, notice in advance of such probable request and estimated duration of load reduction. Load reduction requests are at the discretion of the Company.

PAYMENT TERMS: The Company and the customer will mutually agree on the prices, terms, and conditions for load reductions. Such payment terms will reflect the type of service including, but not limited to energy only, capacity, seasonal, hourly, daily, monthly, etc.

The amount of load reduction will be verified by metered quantities whenever possible. Where the amount of load reduction is not directly metered, the Company and the customer will mutually agree on calculation methods. The customer shall agree to provide information in order to make such calculations.

No payment will be made for load reduction required by Emergency Electrical Procedures as defined under Section C3.

SPECIAL TERMS AND CONDITIONS: Special metering is at the option and expense of the customer. The customer is required to provide the Company with notification methods to be used and provide the Company with current customer personnel responsible for such notification of load reduction requests.

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Standard Contract Rider No. 13

Dispersed Generation

AVAILABILITY OF SERVICE: Available to customers which have on-site generators desiring a voluntary dispersed generation payment for operating their generation at the request of the Company. The customer must have on-site generation of at least 250 kW capacity at a single location.

TERMS OF SERVICE: Customers will be requested to operate generation upon notice from the Company. The customer shall be provided, whenever possible, notice in advance of such probable requests and estimated duration of the request. Such requests are at the discretion of the Company.

PAYMENT TERMS: The Company and the customer will mutually agree on the prices, terms, and conditions for dispersed generation power. Such payment terms will reflect the type of service including, but not limited to energy only, capacity, seasonal, hourly, daily, monthly, etc.

The amount of generator output will be verified by metered quantities whenever possible. Where the amount of generator output is not directly metered, the Company and the customer will mutually agree on calculation methods. The customer shall agree to provide information in order to make such calculations.

No payment will be made for load reduction required by Emergency Electrical Procedures as defined under Section C3.

SPECIAL TERMS AND CONDITIONS: Special metering is at the option and expense of the customer. The customer is required to provide the Company with notification methods to be used and provide the Company with current customer personnel responsible for such notification of load transfer requests. Customers desiring to operate generators in parallel with the Company's system must comply with the requirements of the Company's Interconnection Guidelines.

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Standard Contract Rider No. DG

Distributed Generation

APPLICABLE TO:	Residential Service Rate	Schedule Designation D1
	General Service Rate	Schedule Designation D3
	Large General Service Rate	Schedule Designation D4

AVAILABILITY OF SERVICE: Available to customers with on-site distributed generation desiring to operate in parallel with the Company's system and take service for their supplemental needs under one of the applicable tariffs listed above. The on-site generation capacity shall be no greater than 100 kW at a single location. Distributed generation resources include reciprocating engine generator sets, small turbine-generators, fuel cells, regenerative dynamometers and renewable resources.

PARALLEL OPERATION: The customer must meet the interconnection requirements of the Company specified in "The Michigan Electric Utility Generator Interconnection Requirements" as approved by the Michigan Public Service Commission, and must enter into an Interconnection and Operating Agreement with the Company before parallel operation will be permitted. Operating in parallel with the Company's system without written approval by the Company of the interconnection and any subsequent changes to the interconnection will make the customer subject to disconnection.

The customer is advised to consult its insurers and insurance policies regarding the existence of coverage for on-site distributed generation resources. Homeowners' policies and insurers may afford varying degrees of coverage for this exposure, or may exclude it altogether. This statement is not to be viewed as the rendering of advice regarding the customer's insurance coverage.

RATES: The customer shall pay all direct costs of controlling and protective equipment necessitated by the presence of a source of power on his premises and costs to comply with the Guidelines.

Sell-Back Energy Rate:

For customers with a standard energy meter, the Company's monthly average top incremental cost of power will be applied to all kilowatt-hours delivered to the Company's system.

For customers with a time-of-day meter, the Company's average monthly top incremental cost of power for each time-of-day period will be applied to all kilowatt-hours delivered to the Company's system during that time-of-day period.

For customers with an interval meter, the Company's top incremental cost for each hour will be applied to all kilowatt-hours delivered to the Company's system during that hour.

METERING REQUIREMENTS: The Company will install separate metering for energy sold by the Company to the customer and for energy sold-back to the Company by the customer. The Company will, at the customer's request, upgrade the sell-back meter to either a time-of-day or interval meter, but the incremental cost of such upgrade is the responsibility of the customer.

CONTRACT TERM: Open order, terminable on three day's written notice by either party. Where special services are required, the term will be as specified in the applicable contract rider.

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Standard Contract Rider No. 14

Experimental Residential Load Management

APPLICABLE TO:	Residential Service Rate	Schedule Designation D1
	Residential Time of Day Service Rate	Schedule Designation D1.2
	Senior Citizen Residential Service Rate	Schedule Designation D1.3
	Residential Space Heating Rate	Schedule Designation D2

AVAILABILITY OF SERVICE: The Company may offer this rider to residential customers with central air conditioning and/or central heat pumps not served on rate D1.1. The Company will install a remote control unit at all of the customer's outdoor air conditioner and/or heat pump unit(s) which will interrupt that device upon signal from the Company. This rider will be available to no more than 5,000 customers in 2001, and no more than 15,000 customers thereafter.

LOAD MANAGEMENT INTERRUPTION: Under this rider customers agree to allow the Company to interrupt the central air conditioning and/or heat pump unit(s) by remote control up to thirty minutes in any hour. These interruptions are limited to 10 days per season (May 1 through September 30). Interruptions may occur any day of the week, including weekends, between the hours of 7:00 a.m. and 8:00 p.m. Company interruptions may include interruptions for, but not limited to, maintaining system integrity, making an emergency purchase, economic reasons, or when available system generation is insufficient to meet anticipated system load. If a system emergency occurs causing the Company to invoke the steps of Emergency Electrical Procedures as defined in Section C3, interruptions may be extended beyond the above stated 30 minutes per hour.

TERMS OF INTERRUPTION CREDIT: Customers will receive a credit of \$4.00 for every day in which a Company load management interruption occurs regardless of the number of hours interrupted that day. These credits will be accumulated for the season and applied to the customer's applicable October residential service bill.

CONTRACT TERM: This rider is terminable by either party upon the completion of one season (May 1 through September 30).

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Standard Contract Rider No. 15

Renewable Resources Program

AVAILABILITY:

This Rider is available on a first come first served basis to metered Detroit Edison full service and retail access service customers who desire to pay a renewable resources premium to promote the development and operation of renewable power facilities in the state of Michigan. The availability of service under this Rider may be limited by the availability of Renewable Energy Certificates (RECs) from renewable power facilities in the state of Michigan, at the prices set forth in this Rider. A REC is a unique, independently certified and verifiable record of the production of 1 megawatt hour of renewable energy. In the event that the Company is unable to secure a sufficient quantity of RECs from renewable power facilities within the state of Michigan to provide service to all customers desiring service under this Rider, at the prices set forth in this Rider, the Company may, purchase RECs from out-of-state facilities that provide recognizable economic, environmental, or other benefits to customers and priced at or below the prices set forth in this Rider. The company shall limit the quantity of RECs purchased from renewable facilities outside of Michigan to the additional quantity, above that available from Michigan renewable power facilities at the prices set forth in this Rider, required to serve the customers desiring service under this Rider. In the event that the Company is unable to supply the demand for RECs required to provide service to all customers desiring service under this Rider from Michigan renewable resource facilities and from out-of-state facilities that provide recognizable economic, environmental, or other benefits to customers, at the prices set forth in this Rider, this Rider may be closed to additional customers.

CHARACTER OF SERVICE:

The character of service is as specified under the applicable Base Rate. The term Base Rate refers to the Rate Schedule under which the Customer takes service and with which this Rider is associated.

RATES:

The following charges will apply and will be in addition to the normal charges applied under the applicable Rider(s) and Base Rate Schedule(s) in effect at the customer's metered location.

A. Residential customers:

Option 1:

The Renewable Resources Premium is 2¢ per kWh applied to 100 percent of the monthly electric energy delivered by Detroit Edison under the rate to which this rider is attached.

Option 2:

Customers can elect to contract for 100 kWh per month fixed increments for any amount of their electric requirements delivered by Detroit Edison under the rate to which this rider is attached. The Renewable Resources Premium is \$2.50 per 100 kWh block per month. In the event that the energy represented in the blocks purchased exceeds the customer's actual kWh delivered by Detroit Edison for the billing period, no reconciliation shall be made on the customer's billing.

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Standard Contract Rider No. 15 (Contd)

Renewable Resources Program

B. Non-Residential Customers:

Option 1:

The Renewable Resources Premium is 2¢ per kWh applied to 100 percent of the monthly electric energy delivered by Detroit Edison under the rate to which this rider is attached.

Option 2:

Customers can elect to contract for 1,000 kWh per month fixed increments for any amount of their electric requirements delivered by Detroit Edison under the rate to which this rider is attached. The Renewable Resources Premium is \$20.00 per 1,000 kWh block per month. In the event that the energy represented in the blocks purchased exceeds the customer's actual kWh delivered by Detroit Edison for the billing period, no reconciliation shall be made on the customer's billing.

CONTRACT TERM:


The minimum term available to residential customers is one complete billing period extending thereafter from month to month. For non-residential customers the minimum term is twelve continuous complete billing periods extending thereafter from month to month. Customers shall provide at least three business days notice of their desire to begin or terminate service.

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STANDARD CONTRACT RIDER NO. 16

**NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

AVAILABILITY:

This rider is available on a first-generating first-served basis to electric customers operating on-site generation which satisfies the Renewable Resource eligibility requirements set forth below. This rider attaches to any metered tariff excluding riders. The total capacity contracted under this rider from systems with nameplate capacities of 20 kW or less shall be limited to 0.005 (0.5%) of the Company's system peak for the previous year as defined on page 401b of MPSC Form P-521. The total capacity contracted under this rider from systems with nameplate capacities greater than 20 kW but not greater than 150 kW shall be limited to 0.0025 (.25%) of the Company's system peak for the previous year as defined on page 401b of MPSC Form P-521. The total capacity contracted under this rider from systems with nameplate capacities greater than 150 kW but not greater than 550 kW shall be limited to 0.0025 (.25%) of the Company's system peak for the previous year as defined on page 401b of MPSC Form P-521.

CHARACTER OF SERVICE:

As specified under the applicable Base Rate. The term Base Rate refers to the Rate Schedule under which the Customer takes service and that this Rider is associated with.

ELIGIBLE ELECTRIC GENERATING UNITS:

A. Eligible Technologies:

A methane digester or any renewable energy system as defined in section 11(k) of 2008 PA 295, MCL 460.1011(k) is an eligible technology. "Renewable energy system" means a facility, electricity generation system, or set of electricity generation systems that use 1 or more of the following renewable energy resources to generate electricity. Renewable energy resources include biomass, solar and solar thermal energy, wind energy, kinetic energy of moving water, including all of the following: waves, tides, or currents, water released through a dam, geothermal energy, municipal solid waste and landfill gas produced by municipal solid waste. Renewable energy system does not include any of the following:

1. A hydroelectric pumped storage facility.
2. A hydroelectric facility that uses a dam constructed after October 6, 2008 unless the dam is a repair or replacement of a dam in existence on October 6, 2008 or an upgrade of a dam in existence on October 6, 2008 that increases its energy efficiency.
3. An incinerator unless the incinerator is a municipal solid waste incinerator as defined in section 11504 of the natural resources and environmental protection act, 1994 PA 451, MCL 324.11504, that was brought into service before October 6, 2008, including any of the following:
 - a. Any upgrade of such an incinerator that increases energy efficiency.
 - b. Any expansion of such an incinerator before the effective date of this act.
 - c. Any expansion of such an incinerator on or after October 6, 2008 to an approximate design rated capacity of not more than 950 tons per day pursuant to the terms of a final request for proposals issued on or before October 1, 1986.

B. Generating Unit(s) Size Limitations:

1. The maximum size of a methane digester system at a single site is limited to 550 kW and the maximum size of an individual unit or combination of units utilizing another renewable technology is 150 kW.

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**STANDARD CONTRACT RIDER NO. 16 (CONTD) NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

ELIGIBLE ELECTRIC GENERATING UNITS (CONTD):

2. Systems will be limited in size, not to exceed the Customer's Base Rate self-service needs. At the Customer's option, the Customer's electric needs shall be determined by one of the following methods:
 - a. The Customer's annual energy usage, measured in kWh, during the previous 12-month period.
 - b. For a Customer with metered demand data available, the maximum integrated hourly demand measured in kW during the previous 12-month period.
 - c. In cases where there is no data, incomplete data, or incorrect data for the Customer's energy usage or the Customer has, is or will be making changes on-site that will affect total usage, the Company or alternative electric supplier and the Customer shall mutually agree on a method to determine the Customer's electric needs.

GENERATOR INTERCONNECTION REQUIREMENTS:

- A. The rules for interconnecting customer on-site electric generating equipment with the Company are contained in the Michigan Public Service Commission's Electric Interconnection and Net Metering Standards (R 460.601a-460.656). Additional technical requirements for interconnecting customer on-site electric generating equipment with the Company are contained in Michigan Electric Utility Generator Interconnection Requirements and the Company's Generator Interconnection Supplement to Michigan Electric Utility Generator Interconnection Requirements (or their replacements).
- B. All interconnection requirements must be met and the Customer must fulfill all requirements in and sign an Interconnection and Parallel Operating Agreement with the Company prior to commencing operation of on-site generation.
- C. The Company must approve in writing any subsequent changes in the interconnection configuration before such changes are allowed. Operating in parallel with the Company's system without the Company's written approval of the interconnection and written approval of any subsequent changes to the interconnection will subject the Customer's equipment to disconnection.

METERING:

Inflow and Outflow metering at the interface between the Customer and the Company will be specified by the Company and will be capable of recording all parameters metered on the Base Rate for deliveries to the Customer and for deliveries from the Customer to the Company. The Company will specify a single meter to measure and record inflow and outflow where practical. The Customer shall install and connect all meter enclosures and other equipment necessary to mount all metering. In addition to the inflow and outflow metering, customers with aggregated capacity of 20 kW or less may, and customers with aggregated capacity greater than 20 kW shall make provisions for generation metering. The Company will mount metering on the generator output capable of recording any parameters metered on the Base Rate. Customers with aggregated capacity of 20 kW or less are responsible for the cost of a generation meter if installed. Any unpaid cost for the generation meter will be waived for customers with aggregated capacity of 20 kW or less that enter into an agreement to sell renewable energy credits (RECs) to the Company. The Company will not charge customers with aggregated capacity of 150 kW or less for any meter(s) required to measure and record inflow and outflow. The Company will not charge customers with aggregated capacity greater than 20 kW but not more than 150 kW for generation meters. Any and all costs associated with metering that are incurred to participate in the Net

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**STANDARD CONTRACT RIDER NO. 16 (CONTD) NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

METERING (CONTD):

Metering Program for customers with aggregated capacity greater than 150 kW are the responsibility of the Customer. The metering costs associated with metering for customers with aggregated capacity greater than 150 kW and customers with aggregated capacity of 20 kW or less opting to install a generation meter without entering into an agreement to sell (RECs) to the Company will be divided into 12 equal monthly payments and added to the Customer's electric bill.

NET METERING BILLING PROVISIONS:

- A. Customers with Aggregated Capacity of 20 kW or Less: (Category 1 as defined in MPSC Rule R 460.601a)
1. Power Supply; Full-Service Customers Only:
The Customer will be billed all power supply components and power supply surcharges of the retail rate to which this rider is attached for any positive value resulting from subtracting the outflow from the facility to the utility from the inflow from the utility to the Customer.
 2. Distribution; Full-Service and Choice Customers:
The Customer will be billed all distribution components and distribution surcharges of the retail rate to which this rider is attached for any positive value resulting from subtracting the outflow from the facility to the utility from the inflow from the utility to the Customer.
 3. Standby Power Supply; Full-Service Customers Only:
Net metering customers with aggregated capacity of 20 kW or less will not be charged for power supply standby service.
 4. Power Supply Credit for Excess Generation; Full-Service Customers Only:
If the quantity of electricity generated and delivered to the utility distribution system by an eligible electric generator during a billing period exceeds the quantity of electricity supplied from the electric utility during the billing period, that difference (positive values of outflow-inflow) is excess generation and will be carried forward to provide a credit in subsequent months.
 - a. The maximum credit for power supply will be determined by applying the retail power supply components of the tariff, to which this rider is attached, to any energy that can offset net inflow in the current billing period from the unutilized energy carried forward from previous months.
 - b. The credits shall appear on the bill for the following billing period and shall, in combination with any Distribution Credit for Excess Generation provided by the utility be limited to the total energy charges on that bill.
 - c. Any excess kilowatt-hours (kWh) not used to offset charges in the next billing period will be carried forward to subsequent billing periods.
 5. Distribution Credit on Excess Generation; Full-Service and Choice Customers:
 - a. The distribution credit for excess generation will be determined by applying the retail distribution components of the tariff, to which this rider is attached, to any energy that can be utilized in the current billing period from the unutilized energy carried forward from previous months.
 - b. The distribution credits shall appear on the bill for the following billing period and shall in combination with any Power Supply Credit for Excess Generation provided by the utility be limited to the total utility energy charges on that bill.
 - c. Any excess kilowatt-hours (kWh) not used to offset charges in the next billing period will be carried forward to subsequent billing periods.

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(Continued from [Sheet No. D-103.00](#))

**STANDARD CONTRACT RIDER NO. 16 (CONTD) NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

NET METERING BILLING PROVISIONS (CONTD):

- B. Customers With Aggregated Capacity Greater Than 20 kW But Not Larger Than 150 kW: (Category 2 as defined in MPSC Rule R 460.601a)
1. Power Supply; Full-Service Customers Only:
The Customer will be billed the applicable power supply demand and energy components of the retail rate to which this rider is attached for any positive value resulting from subtracting the outflow from the facility to the utility from the inflow from the utility to the Customer. Power supply surcharges will be charged for total metered inflow to the Customer from the utility.
 2. Distribution; Full-Service and Choice Customers:
 - a. Customers on energy-only rates
The Customer will be billed the applicable distribution components and distribution surcharges of the retail rate to which this rider is attached for total metered inflow to the Customer from the utility.
 - b. Customers on demand rates
The Customer will be billed for all distribution demand components and all energy-based distribution energy components and distribution surcharges of the retail rate to which this rider is attached for total metered inflow.
 3. Standby Power Supply; Full-Service Customers Only
Net metering customers with aggregated capacity greater than 20 kW but no greater than 150 kW will not be charged for power supply standby service.
 4. Credit for Excess Generation; Full-Service Customers Only:
If the quantity of electricity generated and delivered to the utility distribution system by an eligible electric generator during a billing period exceeds the quantity of electricity supplied from the electric utility during the billing period, that difference (positive values of outflow minus inflow) is excess generation and will be carried forward to provide a credit in subsequent months.
 - a. The maximum credit will be determined by applying the retail power supply energy components of the tariff, to which this rider is attached, to any energy carried forward from previous months that can be utilized to offset net inflow in the current billing period.
 - b. The credit shall appear on the bill for the following billing period and shall be limited to the total power supply charges on that bill.
 - c. Any excess kilowatt-hours (kWh) not used to offset power supply charges in the next billing period will be carried forward to subsequent billing periods.

(Continued on [Sheet No. D-105.00](#))

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**STANDARD CONTRACT RIDER NO. 16 (CONTD) NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

NET METERING BILLING PROVISIONS (CONTD):

C. Customers With Methane Digester Aggregated Capacity Greater Than 150 kW but no Larger Than 550 kW:
(Category 3 as defined in MPSC Rule R 460.601a).

1. Power Supply; Full-Service Customers Only:

The Customer will be billed all power supply demand and energy components of the retail rate to which this rider is attached for any positive value resulting from subtracting the outflow from the facility to the utility from the inflow from the utility to the Customer. Power supply surcharges will be charged for total metered inflow to the Customer from the utility.

2. Distribution; Full-Service and Choice Customers:

Customer total site electric requirements will be determined as the sum of the Company supply (inflow meter) and generation supply (generation meter) minus any outflow to the Company (outflow meter), i.e. [inflow plus generation minus outflow] for both energy and demand if applicable. The Customer will be billed all distribution demand and energy components and distribution surcharges of the retail rate to which this rider is attached for total site electric requirements.

3. Standby Power Supply; Full-Service Customers Only:

Systems capable of generating more than 150 kW will be charged for Power Supply Standby Service by applying the applicable power supply charges in Standard Contract Rider No. 3 unless the Customer opts out of standby through the following procedure.

To opt out of standby the Customer must provide a written notice indicating they fully understand that opting out makes them subject to any ratchet provisions included in the base rate and are refusing Power Supply Standby Service.

4. Credit for Excess Generation; Full-Service Customers Only:

If the quantity of electricity generated and delivered to the utility distribution system by an eligible electric generator during a billing period exceeds the quantity of electricity supplied from the electric utility during the billing period, that difference (positive values of outflow minus inflow) is excess generation and will be carried forward to provide a credit in subsequent months.

- a. The maximum credit will be determined by applying the retail power supply energy components of the tariff, to which this rider is attached, to any energy that can be utilized in the current billing period to offset net inflow from the energy carried forward from previous months.
- b. The credit shall appear on the bill for the following billing period and shall be limited to the total power supply charges on that bill.
- c. Any excess kilowatthours (kWh) not used to offset power supply charges in the next billing period will be carried forward to subsequent billing periods.

ADDITIONAL CREDITS:

The Company may purchase renewable energy credits under a separate agreement from net metering customers using generation metering supplied by the Company. Provisions of this rider neither obligate the Company to purchase renewable energy credits nor obligate the Customer to sell renewable energy credits.

(Continued on [Sheet No. D-106.00](#))

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**STANDARD CONTRACT RIDER NO. 16 (CONTD) NET METERING FOR RENEWABLE RESOURCE
ON-SITE POWER PRODUCING FACILITIES**

ADDITIONAL CHARGES:

The Customer is responsible for a net metering application fee of \$25.00 and interconnection application review fee of \$75.00. Projects larger than 20kW are responsible for distribution study costs and the cost of distribution upgrades if required.

CONTRACT TERM:

Customers who enroll shall be eligible to participate for a single continuous period up to 10 years. A customer may discontinue taking service under this rider at any time. The Company may terminate service under this rider to Customers with an aggregated capacity greater than 20 kW if it can be established that the facility has not produced energy for a continuous period exceeding eleven (11) billing months. The Company may terminate a customer's service under this rider if the Customer fails to satisfy the eligibility requirements or the terms of the Interconnection and Parallel Operating Agreement. A customer that elects to discontinue taking service under this rider or whose net metering service is terminated for any reason and subsequently wishes to reenroll must reapply as a new customer subject to program size limitations and outstanding applications.

SPECIAL PROVISIONS AND CONDITIONS:

- A. Generation facilities covered by this rider that have an aggregated capacity at a single site of 150 kW or less are exempt from all charges associated with the Company's Standard Contract Rider No. 3 Parallel Operation and Standby Service.
- B. Net excess generation carried forward will be accounted for by the applicable time-of-use pricing period existing in the Customer's Base Rate e.g. On-Peak and Off-Peak. Energy carried forward from one time-of-use pricing period will not be utilized to offset energy in a different time-of-use pricing period.
- C. Full retail power supply as used in this tariff refers to those components of a rate schedule utilized to collect the cost of service for power supply, and full retail distribution as used in this tariff refers to those demand and energy components of a rate schedule utilized to collect the cost of service for distribution service. Full retail rates do not include surcharges, service charges or other charges that are assessed on a per-meter basis.
- D. Generation Units covered by this rider are exempt from the Auxiliary Power Provisions contained in Residential Service Rate (D1) and Residential Space Heating Rate (D2).
- E. By applying for service under this rider the Customer agrees to provide to the Company and allow the Company to provide to the Commission Staff the information about their onsite power producing facilities required for the Company to comply with its reporting requirements and verify continued eligibility for service under this rider. The Company will not release the name, address or other identifying information without prior written permission of the Customer.
- F. The Company will allow generator metering supplied by the Company to be used by the Customer for the purpose of accounting for renewable energy credits (REC's) the Customer may wish to sell.
- G. The terms, conditions, charges and credits provided under this rider are subject to revision under order of the Michigan Public Service Commission.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2

E1 INTRODUCTION

This Rider is designed to express the terms and conditions associated with retail access service in the Detroit Edison Electric Choice Program, as well as provide information regarding the roles of the various market participants. This Rider includes the following sections:

Introduction and Definitions	Sec. 1
Customers	Sec. 2 - 10
Alternative Electric Suppliers	Sec. 11 - 18
Marketers	Sec. 19 - 21

- In the Detroit Edison Electric Choice Program, Detroit Edison will maintain a relationship and interact with at least three separate participants: The Customer, the Alternative Electric Supplier and the Marketer. One entity may be responsible for both the Alternative Electric Supplier and Marketer roles. Detroit Edison has separately defined the retail and wholesale functions behind electric supply in a competitive environment.

E1.1 Availability

Available for metered service in conjunction with Rate Schedule Nos. D1 through **R16**, inclusive, when the customer wishes to take power supply service from an Alternative Electric Supplier. This Rider is not available for unmetered service.

E1.2 The Customer Role

The Customer is the end-user of Power at one or more locations in the State of Michigan who has facilities connected to the Detroit Edison distribution system. Under retail access service, the Customer will conduct transactions with at least two entities - Detroit Edison and an Alternative Electric Supplier. The Customer is responsible for choosing an Alternative Electric Supplier.

Detroit Edison's principal requirement is that the Customer must already be connected to the Detroit Edison Distribution System as a Full Service Customer or meet the requirements for new Customers connecting to the Detroit Edison Distribution System. All Primary Customers and Secondary Customers with Customer Service Capacities greater than 300 kW must execute Customer Distribution Agreements with Detroit Edison.

E1.3 The Alternative Electric Supplier Role

An Alternative Electric Supplier is an entity that has obtained all the necessary legal approvals to sell retail electricity in Michigan.

The Alternative Electric Supplier buys products and services needed to provide power to Customers, combines these products and services in different marketing packages, and sells the packages to Customers. Alternative Electric Suppliers must meet all applicable statutory and regulatory requirements of Michigan and Federal law.

(Continued on [Sheet No. E-2.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E1 INTRODUCTION (CONTD)

E1.4 The Marketer Role

The Marketer is an entity that acts as a wholesale supplier; takes title to power and has FERC authorization to market energy services. FERC authorization allows the Marketer to use transmission systems to move power from the generator(s) to the distribution system. The Marketer is either a FERC-authorized power Marketer or a utility. As defined by FERC, in the context of this Rider, the Marketer is responsible for all Transmission-related responsibilities related to serving the retail access customers served by its supply. These include: scheduling energy, obtaining ancillary services, and paying energy imbalance charges. The Alternative Electric Supplier and Marketer functions may be handled by one entity or may be performed by different parties. Either way, both the Alternative Electric Supplier role and the Marketer role must be performed to complete delivery to a Customer.

E1.5 Definitions

Aggregator means an entity that combines the energy consumption of multiple Customers for the purpose of meeting minimum load criteria necessary for retail access service.

Alternative Electric Supplier (AES) means an entity that has obtained all the necessary approvals to sell retail electricity in Michigan, and is licensed by the Michigan Public Service Commission. An AES does not physically deliver electricity directly to retail Customers in the state.

Commission means the Michigan Public Service Commission.

Customer means, for purposes of retail access service, an entity with electrical load facilities connected to the Detroit Edison Distribution System that purchases or receives Power from an Alternative Electric Supplier and which Power is delivered to its Location(s) pursuant to this Rider. All Customers, regardless of the voltage level of the service, are considered to be connected to the Detroit Edison Distribution System.

Customer Service Capacity means the load carrying capability of the Detroit Edison metering installation at the Customer's site, based on the thermal limits of the meter and any associated transformers.

Demand means the amount of power required to meet the Customer's load, generally expressed in kilowatts or megawatts, at a given instant or averaged over a designated interval of time.

(Continued on [Sheet No. E-3.00](#))

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(Continued from [Sheet No. E-2.00](#))

RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E1.5 Definitions (Contd)

Detroit Edison’s Distribution System means facilities operated by Detroit Edison for the purpose of distributing electric power within Detroit Edison’s electric service territory, which are subject to the jurisdiction of the Commission.

Distribution Contract Capacity means the load carrying capacity in kilowatts of the Detroit Edison Distribution System necessary to meet a Customer’s maximum load requirements at a particular Location served under this Rider.

Distribution Point of Delivery means the point of interconnection between the Detroit Edison Distribution System and the Customer’s service location.

Distribution Point of Receipt means the point of interconnection between the ITC Transmission and Detroit Edison Distribution Systems.

Effective Date is the date at which responsibility for servicing a Customer Load transfers from the current supplier to the new supplier. The transfer occurs at the beginning (00:01 hours) of the Effective Date.

Energy in the context of this document the word energy refers to “electrical energy” and is measured in kilowatt-hours.

Energy Meter means a meter capable of measuring and recording energy on a kWh basis.

Full Service means the provision of regulated electric service including energy, transmission and distribution services; each provided by Detroit Edison.

International Transmission Company (ITC) Transmission System means facilities operated by ITC for the purpose of transmitting electric power within the Detroit Edison electric service territory which are subject to the jurisdiction of the Federal Energy Regulatory Commission.

Interval Demand Meter means a meter capable of measuring and recording kW demands and kVAR demands on a 30-minute integrated basis, as needed to bill the Customer and measuring energy on a kWh basis.

Load means any end-use device drawing energy from the electric system.

Location means each Customer facility whether owned or leased.

(Continued on [Sheet No. E-4.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E1.5 Definitions (Contd)

Marketer means an entity that:

- A generates, brokers, markets or otherwise procures power to be supplied to ITC at the Transmission Point of Receipt, obtains transmission services and with whom a Customer's Alternative Electric Supplier has arranged for the receipt of Power,
- B satisfies all applicable statutory and regulatory requirements of Michigan and Federal law, and
- C satisfies all applicable reciprocity requirements set forth in this Rider.

MDMA or Meter Data Management Agent is the party responsible for reporting a Marketer's aggregated customer loads, with distribution losses, to MISO to support settlement in the MISO hourly energy market.

Midwest Independent Transmission System Operator (Midwest ISO or MISO) Tariff means the *Midwest ISO* Tariff on file with the Federal Energy Regulatory Commission, as amended from time to time. The Tariff *governs MISO's provision of regional transmission service and MISO's operation of an energy and ancillary services market.*

MISO means the Midwest Independent *Transmission* System Operator

Power means a combination of the electric demand and energy requirements of the Customer.

Reactive Demand means the amount of reactive power required to meet the Customer's Load, generally expressed in kilovolt-amperes reactive (kVAR), at a given instant or averaged over a designated interval of time.

Sink means a unique four-character code assigned to a Marketer's Transmission Service Agreement by ITC which identifies a load.

Transition Charge is a surcharge for the recovery of costs associated with the implementation of retail access service and Detroit Edison's stranded costs arising from implementation of retail access service.

Transmission Point of Delivery means the point of interconnection between the ITC Transmission and Detroit Edison Distribution Systems.

Transmission Point of Receipt means the point on the ITC Transmission System where Power is received by ITC for delivery to the Transmission Point of Delivery.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

CUSTOMER SECTION

E2 TERMS AND CONDITIONS OF SERVICE

E2.1 This Retail Access Service Rider sets forth the terms and conditions of service for the delivery of Power to a Customer, procured by an Alternative Electric Supplier and supplied by a Marketer. Such Power shall be initially received at a designated Transmission Point of Receipt and ultimately delivered to the Customer through the Detroit Edison Distribution System. This Rider also sets forth the rates and charges for services unique to customers taking Retail Access Service.

E2.2 Power received by ITC for delivery to the Customer shall be transmitted across the ITC Transmission System to the Detroit Edison Distribution System in accordance with the rates, terms and conditions of service of the *Midwest ISO* Tariff.

E2.3 A Customer's eligibility to take retail access service is subject to the full satisfaction of any terms or conditions imposed by pre-existing contracts or tariffs with Detroit Edison. Rider No. 2 agreements between the Customer and Detroit Edison will remain in effect during service under this Rider. Rider No. 4 - "Resale of Service" is also available under this Rider.

E2.4 A Customer will specify only one Alternative Electric Supplier (and the Alternative Electric Supplier shall specify only one Marketer) at any given time for the supply of Power to each Customer account or Customer Location.

E2.5 Detroit Edison shall be required to complete all retail access enrollment activities required to place a Customer in "site-ready" status within the following timeframes:

- A Within 10 calendar days when no meter work is required for the Customer to take retail access service
- B Within 45 days when meter work is required

These deadlines do not require that Customers actually commence service within the specified timeframes; only that Detroit Edison has completed all activities required of it to place the Customer in "site-ready" status.

Customers shall be permitted to change Alternative Electric Suppliers. The changes will become effective at the completion of their normal billing cycle. Customers will be assessed a \$5 processing charge per account for each change. The change will be submitted to Detroit Edison electronically by the Customer's new Alternative Electric Supplier as a new enrollment.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E2 TERMS AND CONDITIONS OF SERVICE (CONTD)

E2.6 Multiple Meters at Non-Residential Locations

- A. Existing groupings of multiple meters into accounts at a location will be maintained in setting up new retail access accounts.
- B. When multiple Interval Demand Meters are used within a single voltage level, Maximum Demand at that voltage level will be established by the highest coincident demand recorded for those meters.

E2.7 Multiple Meters at Residential Locations

Existing groupings of multiple meters into accounts at a location will be maintained in setting up new retail access accounts.

E2.8 Metering

- A. All load served under this Rider shall be metered. The meter type shall be that which is appropriate to meter the customer's Power Supply requirements under the otherwise applicable rate schedule.
- B. Non-Residential Secondary customers may elect to have interval metering installed, at their expense, in the place of standard demand/energy metering, and to have the interval metered data used for wholesale settlement in lieu of profiled data as provided for in Section E2.0.
 - (1) Detroit Edison shall install the requested interval meter within 45 days of receiving the customer's request
 - (2) The customer must provide working telephony to the meter and Detroit Edison must be able to verify electronic communication with the meter prior to the customer taking service as an interval-metered customer.
 - (3) The minimum term for this interval-metered service is one year.
- C. Metering equipment for Customers taking retail access service shall be furnished, installed, read, maintained and owned by Detroit Edison.

(Continued on [Sheet No. E-7.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E2 TERMS AND CONDITIONS OF SERVICE (CONTD)

E2.9 Meter Reading

- A. All Customers with Interval Demand Meters shall have meter reading accomplished electronically through Customer-provided telecommunication links or other electronic data methods able to provide Detroit Edison the metering data necessary to bill the customer and conform to required metering accuracy. The Alternative Electric Supplier shall have direct access to meter data through the same means as Detroit Edison, once the Customer is enrolled, without any further documentation or permission from the Customer.

The Company shall commence interval-metered retail choice service upon installation of appropriate demand meters and verification of successful electronic communication with Detroit Edison's data collection system. If a Customer is not able to allow sharing of the telephone line, the Customer shall obtain a separate telephone line for such purposes and pay all charges in connection therewith.

Interval-metered customers with locations where the installation of land-line telephony is impractical may request Detroit Edison to install optional digital cellular telephony to the meter. Detroit Edison will furnish, own, install, activate, and maintain the digital cellular device for a monthly charge of \$45.00 to the customer. The minimum term for this optional service is one year. The customer is responsible for all charges from the cellular provider.

- B. The Customer is responsible for assuring the performance of the telephone line. If the telephone line used for metering is out of service, Detroit Edison will retrieve the data manually for a fee of \$37/ month (one reading) after the first manual read.

In the event that the telephone line service at a Primary customer location is out for three consecutive months, the Customer's retail access service may be terminated and the Customer may be transferred to service under Detroit Edison's full requirement tariffs subject to the provisions of Section 5.3.

In the event that the telephone line service at a Secondary customer location with optional interval-metered service is out for three consecutive months, Detroit Edison may switch the customer to load-profiled Retail Access service. Customers so switched will be ineligible for the optional interval-metered service for a period of 12 months.

(Continued on [Sheet No. E-8.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E2 TERMS AND CONDITIONS OF SERVICE (CONTD)

- C. A hardship exception may be made for cases where installation of both land-line and cellular telephony is impractical. The burden of proving hardship rests on the customer. Detroit Edison will not unreasonably withhold the granting of such exception and a customer may appeal Detroit Edison's decision to the MPSC. Customers who are granted the exception will have their interval meters read manually, once per month, at the time of Detroit Edison's billing, at an additional monthly cost of \$37.00/month.
- D. For load-profiled customers, meters will be read by conventional means and the Customer will not be required to provide a telephone service.
- E. The switch of a Customer's account from one supplier to another will normally take place on the scheduled meter reading date for that Customer (the Effective Date) and be based on the reading made that same day. If an actual meter reading is not made on the Effective Date, Detroit Edison will read the meter within five (5) business days of the date in which Detroit Edison determines that the scheduled actual meter reading has not occurred. The meter reading on the Effective Date will be determined on a pro rated basis based on the actual meter reading. Detroit Edison's failure to read meters in the time frames noted, through no fault of the Customer, shall not result in penalties of any type to the Customer. Except for actions outside the scope of Detroit Edison's control and storms or other events or occurrences that render the reading of meters physically impossible, customer's bills for Detroit Edison distribution services will be reduced by 1/30 for each day Detroit Edison meter reads are late past a three day grace period.

E2.10 Meter Errors and Telephone Failures

Billing where metering errors and malfunctions have taken place shall be performed as follows:

- A. For Energy and non-Interval Demand Metered Customers where metered data is not available due to metering errors, malfunctions, or otherwise, the usage will be estimated using the procedures approved by the MPSC in Case No. U-14523 on August 4, 2005.
- B. For Interval Demand Metered Customers where metered data is not available due to metering errors, malfunctions, or otherwise, the usage will be estimated using the available historical data for the Customer.

(Continued on [Sheet No. E-9.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E2 TERMS AND CONDITIONS OF SERVICE (CONTD)

- C. Where incorrect billing results from calculation error discovered by either Detroit Edison, the Alternative Electric Supplier, or the Customer, the error will be corrected and revised bills for the Customer and the Alternative Electric Supplier will be calculated and settled on the next billing period after the error is discovered. Billing errors discovered by Detroit Edison shall be adjusted as provided for in the Residential, Commercial, and Industrial Billing Rules.
- D. Liability for meter or calculation errors or malfunctions shall be assigned or apportioned to the appropriate party based on fault.

E3 CHARACTER OF SERVICE

E3.1 Detroit Edison furnishes alternating current service at a nominal frequency of 60 hertz 24 hours a day, subject to interruption by tariff, by agreement, by advance notice, by accident or by other causes not under the reasonable control of Detroit Edison.

E3.2 For Single-Phase Distribution Service, Detroit Edison provides service at differing voltages available in differing configurations within its service territory. These include, but are not limited to, single-phase secondary alternating current service at 120/240 volts. In some districts current is supplied from a Y- connected secondary network at 208Y/120 volts. Customers who are considering locating new load or who are considering adding load at an existing Location should contact Detroit Edison to determine what service is available at a particular Location to serve their Load.

E3.3 For Three-Phase Distribution Service, Detroit Edison provides service at differing voltages available in differing configurations within its service territory. These include, but are not limited to, alternating current, three-phase service at nominal 4,800, 13,200, 24,000, 41,570 or 120,000 volts which may be transformed to lower voltages through Detroit Edison-owned transformation equipment. Where three-phase service is supplied at 480Y/277 volts through Detroit Edison-owned transformation equipment, the Customer must furnish any transformation for the supply of its 120/240 volt requirements. Customers who are considering locating new load or who are considering adding load at an existing Location should contact Detroit Edison to determine what service is available at a particular Location to serve their Load.

E4 AVAILABILITY OF SERVICE

E4.1 A customer site with load connected to Detroit Edison's Distribution System through a metered delivery point capable of delivering the required power that meets the eligibility requirements set forth in Section 2.3 shall be eligible for Retail Access Service.

(Continued on [Sheet No. E-10.00](#))

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E5. TERM, COMMENCEMENT OF SERVICE AND RETURN TO FULL SERVICE

E5.1 Term

E5.1.1. RETAIL ACCESS SERVICE FOR NON-RETAIL CUSTOMERS

Retail Access Service shall have a minimum term of two years subject to the provisions of Section 5.3. Upon completion of the initial term, retail access service shall continue on a month to month basis until terminated by the Customer or Detroit Edison with 30 days written notice. Any customer who elected retail access service prior to the Commission's final order in U-13808 will be subject to a minimum term of one year.

When more than 10% of the customer load in kWh for any of the three rate classes – residential, commercial, and industrial – is taking open access service, customers in that class must provide 60 days written notice.

If an Alternative Electric Supplier defaults, a Customer who returns to full service before the 30 or 60 days elapse shall pay the higher of the tariff rate or market based rate until Detroit Edison has received the benefit of 30 or 60 days notice, at which time the customer may elect to remain on full service for 12 months and pay tariff rates as provided for in Section 5.3. All other customers who fail to give less than 30 or 60 days notice are subject to Detroit Edison's ability to supply their requirements.

The terms of service associated with any previously contracted or newly initiated service are specified below:

Retail access service provided to new locations served by Detroit Edison shall be for an initial minimum term of five years over which time the minimum charges shall apply. Contributions in Aid of Construction for distribution facilities will be per tariff rate.

Service provided to existing locations shall be for the unexpired portion of any existing contract but not less than a term of one year over which time the minimum charges shall apply.

After the expiration of the contract minimum term for Retail Access Service, the contract shall be extended thereafter, from month-to-month.

Minimum charges shall be adjusted each year to recognize actual demand.

E5.1.2 RETAIL SERVICE FOR RESIDENTIAL CUSTOMERS

A Retail Access residential Customer shall commence Retail Access residential service in accordance with their billing cycle and shall be required to remain on Retail Access Service for a minimum of one full billing cycle. Upon written Notice of Return to Company Full Service, a Retail Access Customer taking Retail Access residential service may return to Company Full Service in accordance with their next bill cycle. A Retail Access Customer who returns to Company Full Service must remain on Company Full Service for a minimum of one year from the date of their return to Company Full service.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E5 TERM, COMMENCEMENT OF SERVICE AND RETURN TO FULL SERVICE (CONTD)

E5.2 Commencement of Service

E5.2.1 Retail access service shall be initiated by a Customer choosing an Alternative Electric Supplier and the subsequent submission of an electronic enrollment by the Alternative Electric Supplier on behalf of the Customer in a manner specified by Detroit Edison. Alternative Electric Supplier submission of the enrollment warrants that a valid contract with the prospective Customer exists. Detroit Edison shall be required to complete all open access enrollment activities required of it to get the enrollment to “site-ready” status within the timeframes specified in Section 2.5.

E5.2.2 Retail access service may not commence until metering has been installed as specified in this Rider or agreements related thereto and:

MISO has received from the Marketer an executed Transmission Service Agreement.

In addition, Detroit Edison must have received from the Alternative Electric Supplier:

- (i) the Alternative Electric Supplier’s warranty, that the Alternative Electric Supplier has obtained all necessary approvals authorizing the Alternative Electric Supplier to conduct business at each Location to be served, and
- (ii) the Alternative Electric Supplier’s warranty, that each enrollment submitted is in full compliance with requirements for enrollment, and is backed by proper authorization from the Customer allowing the Alternative Electric Supplier to enroll the Customer in retail access.

E5.3 Return to Full Service

A. In addition to the written notice provided in Section E5.1, a Customer shall provide Detroit Edison with notice no later than December 1st if the Customer will be taking full service from Detroit Edison during the following summer. For this purpose, “summer” means Detroit Edison regularly scheduled billing periods beginning June 1st through September 30th. Customers who so notify Detroit Edison shall be obligated to take full service from Detroit Edison for twelve months and pay for such service at any tariff rate for which the customer qualifies.

If a Customer does not provide Detroit Edison with written notice prior to December 1st and then takes full service from Detroit Edison during the following summer, the Customer shall pay Detroit Edison the higher of (a) the applicable tariff energy prices plus 10% or (b) the Market Priced Power charges plus 10% until such time as the minimum two year commitment to retail open access service has been met and the December 1st written notice requirement has been met.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E5 TERM, COMMENCEMENT OF SERVICE AND RETURN TO FULL SERVICE (CONTD)

B. Subject to the notice provisions of Section 5.3A, Customers that discontinue retail access service may return to Detroit Edison Full Service under the following conditions:

(i) Option 1 -- 12 Month Service Commitment

If the Customer commits to Detroit Edison Full Service for a minimum of 12 months, then the Customer may take service under any tariff rate for which the Customer qualifies. Any returning Customer that commits to remain on full service for the subsequent 12 months and then fails to do so will be back billed for the higher of the tariff rate or market-based rate.

(ii) Option 2 -- Short-Term Service

If the Customer chooses not to commit to Detroit Edison Full Service for a minimum of 12 months, then the Customer may take service under any tariff rate for which the Customer qualifies, with the tariff rate modified as follows:

The Power Supply Cost Recovery component, both base and adjustment factor, in any and all energy prices of the tariff, shall be subtracted from the energy prices and the Market Priced Power charge shall be added to the energy prices. The Market Priced Power charge shall reflect the current market value of energy, shall be based on visible indexes of electricity market prices plus reasonable charges for transmission and losses, and shall be calculated according to methods approved by the Michigan Public Service Commission. The Customer shall be billed the higher of the applicable tariff energy prices or the Market Priced Power charge.

The Customer may at any time return to retail access service or agree to take Detroit Edison Full Service for a minimum of 12 months.

(iii) Unless otherwise provided for and subject to other conditions in this Rider, a Customer may return to Detroit Edison Full Service under the provisions of Section 5.3 and subsequently go back to retail access service no more than once in any month.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E6 Billing and Payment

E6.1 Detroit Edison will bill the Customer for retail access service at the rates and charges outlined in Section 8.

E6.2 The Customer shall pay Detroit Edison the amount billed on or before a due date established by Billing Rules approved by the Commission in cases U-10661 and U-11397. A late payment charge of 2%, not compounded, of the unpaid balance, net of taxes, shall be added to any bill which is delinquent and not in dispute.

E6.3 The Customer shall retain the right to direct Detroit Edison to send the monthly bill to any third party, including the Alternative Electric Supplier.

E6.4 Disconnection for Non-Payment

Customers will be subject to disconnection for non-payment of Detroit Edison distribution charges, that are not in dispute, in accordance with the rules described in Detroit Edison’s Rules and Regulations, Section 2.5.

E7 DISTRIBUTION CONTRACT CAPACITY

E7.1 All Interval Demand Metered Customers shall contract for an amount of capacity sufficient to meet the maximum requirements of all Load connected to the Detroit Edison Distribution System at the Customer’s Location. The Distribution Contract Capacity will initially be set at the greater of: 1) the previously established Contract Capacity; 2) the previously established Distribution Contract Capacity; 3) the highest 30-minute integrated demand created during the previous 12 billing months at each voltage level (whether the Customer received service under this Rider or a Detroit Edison retail tariff or contract), for each Location. Any single 30-minute integrated reading of the Interval Demand Meter in any month that exceeds the Distribution Contract Capacity then in effect shall become the new Distribution Contract Capacity. Customers not having previously established service requirements shall contract with Detroit Edison for a specified Distribution Contract Capacity in kW sufficient to meet the maximum requirements for each location.

E7.2 Detroit Edison will provide the necessary facilities to deliver electric power from its Distribution System at the Distribution Contract Capacity. Any incremental cost incurred by Detroit Edison to provide the necessary facilities to meet the Customer’s increased demand for distribution services over the Distribution Contract Capacity existing when service commences under this Rider shall be the responsibility of the Customer. Once established, the Distribution Contract Capacity shall not decrease during the contract term unless there is a specific permanent reduction in connected load.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E8 RATES AND CHARGES

Rates and charges for delivery are stated in the customer's applicable unbundled tariff.

E8.1 Optional Interval-Metered Service

Detroit Edison will charge Secondary customers who elect this optional interval metering service an additional fee per month for the meter and the costs of collecting and storing the interval data.

The fee for this optional interval-metered service is:

Energy metered customers (D3)	\$25.00/month
Energy/demand metered customers (D4)	\$20.75/month

This charge is in addition to the customer's normal delivery charges.

Active and enrolled Retail Access customers on the effective date of this Rider, who were previously required to install interval meters to take retail access service, may continue taking interval metered service under this optional service, without charge, until 24 months from the effective date of this Rider. Thereafter they will be charged the fee indicated above.

E8.2 Optional Cellular Telephony for Interval-Metered Customers

The charge for Detroit Edison's digital cellular alternative to land-line telephony, as described in Section E2.9A is \$45.00/month

The customer is responsible for all charges from the cellular provider.

E8.3 Manual Meter Reading of Interval Meters

Detroit Edison's charge for manually reading (downloading) the data from an interval meter is \$37.00/month for a single read, performed at the time of Detroit Edison billing. This charge applies to the second and subsequent ad-hoc meter reads necessitated by telephony failures and regular monthly reads for customers with the hardship exception as described in Section E2.9C.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E9 OTHER PROVISIONS

E9.1 Retail Access Customers will be subject to the relevant curtailment procedure contained in Detroit Edison's electrical Procedures, [Section C3](#). Detroit Edison shall give Retail Access Customers the same priorities in curtailment situations as it gives Full Service Customers.

E9.2 All Points of Receipt for Power produced within the Detroit Edison retail service territory for delivery to Customers within that territory shall be considered as being points located on the ITC Transmission System.

E9.3 All electric generation equipment connected in parallel with the Detroit Edison system must comply with the Detroit Edison Protective Relaying, Operating and Telemetry Guidelines for Independently Owned Generation and before operating such equipment must obtain certification, in writing, from Detroit Edison that the conditions outlined in the guidelines have been met.

E9.4 Customer equipment must be operated so that voltage flicker and harmonics on the Detroit Edison Distribution System shall not exceed permissible limits established by Detroit Edison and by IEEE Standard 519, respectively. Failure to comply with this requirement may result in discontinuance of service to the Customer and disconnection of Customer's Load from the Detroit Edison system.

E9.5 Redundant services requested by the Customer may be provided under separate agreement.

E9.6 Detroit Edison's Rules and Regulations as currently in effect are incorporated by reference into this Rider to the extent applicable and, Rule C-2.2(2) notwithstanding, only to the extent not inconsistent with the terms of this Rider.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E10 ALTERNATIVE ELECTRIC SUPPLIER

E10.1 This Rider section outlines the rights and responsibilities of Alternative Electric suppliers and Detroit Edison when enrolling and serving Customers under retail access service. The Alternative Electric Supplier is the retail seller of electric supply to the Customer on Detroit Edison's Distribution System.

E10.2 If an Alternative Electric Supplier or Marketer fails to pay amounts due Detroit Edison or otherwise fails to perform obligations undertaken in connection with service to a Customer, Detroit Edison will give the Customer notice of the Alternative Electric Supplier's or Marketer's default. If the Customer, its Alternative Electric Supplier, or its Marketer fails to pay amounts due Detroit Edison or otherwise fails to comply with the provisions of the applicable Tariffs or agreements with Detroit Edison, retail access service may be terminated. Unless the Customer, Alternative Electric Supplier or Marketer cures the default with Detroit Edison or the Customer changes its Alternative Electric Supplier, the Customer may be returned to Detroit Edison Full Service subject to the provisions of **Section 5.3**.

E10.3 The Alternative Electric Supplier is responsible for all of the Alternative Electric Supplier charges associated with its Customers until retail access service is terminated.

E10.4 Termination of retail access service to a Customer can be initiated by the Alternative Electric Supplier, the Customer or Detroit Edison. Alternative Electric Suppliers and Detroit Edison shall comply with the billing rules that govern the shut off of service, R 460.2101 et seq. and R 460.3903 et seq. except that instead of providing a notice of termination, Alternative Electric Suppliers shall provide a notice of return to full service.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E11 CREDITWORTHINESS

There is no creditworthiness requirement for Alternative Electric Supplier's unless the Alternative Electric Supplier is purchasing products or services from Detroit Edison. Alternative Electric Suppliers who purchase products or services from Detroit Edison must demonstrate and maintain current creditworthiness in an amount sufficient to cover anticipated charges for all those products or services. For unsecured credit, the Alternative Electric Supplier must provide three (3) years of audited financial statements, including notes, having an acceptable amount of positive tangible net worth, and meeting risk parameters derived from an analysis of its financial statements. The Alternative Electric Supplier may provide alternative security or credit enhancement, such as a letter of guarantee, letter of credit or prepayment. Detroit Edison will use reasonable credit review procedures which may include, but are not limited to, review of the Alternative Electric Supplier's financial statements, verification that the Alternative Electric Supplier is not operating under state or federal bankruptcy laws, and has no pending lawsuits or regulatory proceedings or judgments outstanding which would have a material adverse affect on the Alternative Electric Supplier and its ability to perform its obligations. Affiliates of Detroit Edison must meet these same creditworthiness requirements.

The amount of creditworthiness required is equivalent to two months expected exposure.

Following 24 months of full and timely payment to Detroit Edison for service provided, an Alternative Electric Supplier shall be deemed to have sufficient credit to satisfy Detroit Edison's requirements.

E12 ELECTRONIC BUSINESS TRANSACTIONS

E12.1 Unless specified otherwise by Detroit Edison in a Commission-approved tariff, Alternative Electric Suppliers shall transact all business with Detroit Edison electronically.

E12.2 Unless otherwise specified by Detroit Edison in a Commission-approved tariff, all payments made to Detroit Edison by the Alternative Electric Supplier will be made by electronic funds transfer to the Detroit Edison account.

E13 CONDITIONS PRECEDENT TO CUSTOMER ENROLLMENT

The Alternative Electric Supplier will not be eligible to enroll Customers unless and until the following conditions precedent have been satisfied and continue to be satisfied:

E13.1 The Alternative Electric Supplier has been granted a license by the Commission.

E13.2 The Alternative Electric Supplier has demonstrated electronic communication and commerce capability, which meets Detroit Edison's standards and protocols as defined in tariffs approved by the Commission.

E13.3 The Alternative Electric Supplier has an executed contract with a qualified Marketer, as evidenced in an executed Alternative Electric Supplier-Marketer Notice.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E14 CONDITIONS PRECEDENT FOR SERVING CUSTOMERS

The Alternative Electric Supplier will not be permitted to serve or continue to serve Customers unless and until the following conditions precedent have been satisfied and maintained:

- E14.1** The Alternative Electric Supplier has satisfied and continues to satisfy all conditions in Section E13.
- E14.2** All required Customer metering equipment is in place and functioning properly.
- E14.3** All required telephony to the meter is in place and functioning properly (Interval-Metered Customers).
- E14.4** The Alternative Electric Supplier has complied with and continues to comply with all provisions of this Rider.

E15 RATES AND CHARGES

- E15.1** The Alternative Electric Supplier shall pay Detroit Edison the following:
 - A. An Alternative Electric Supplier enrolling Customer(s) with the Complete Billing option shall pay Detroit Edison a one-time charge of \$5,000 for the Alternative Electric Supplier's initial rate-ready schedule set-up for up to sixty rates, regardless of the number of Customers electing this option.
 - B. An Alternative Electric Supplier enrolling Customer(s) with the Complete Billing option shall pay Detroit Edison a monthly transaction charge of \$0.20 per Customer location billed under the Complete Billing option.
 - C. An Alternative Electric Supplier enrolling Customer(s) with the Complete Billing option shall pay Detroit Edison \$1,000 per occurrence for each change request made by the Alternative Electric Supplier to its rate-ready schedule, regardless of the number of changes in the request or the number of Customers effected.
 - D. Any other charges to the Alternative Electric Supplier for services provided by Detroit Edison will be negotiated on an individual case basis.
- 15.2** Detroit Edison will provide two (2) Customer Billing options-Complete Billing by Detroit Edison and Separate Billing by Detroit Edison and the Alternative Electric Supplier. It is the responsibility of the Alternative Electric Supplier to identify on the Customer Enrollment Form which of these options the Customer has requested.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E15 RATES AND CHARGES (CONTD)

E15.3 Allocation of Partial Payments Under Complete Billing

In the event the Customer submits a partial payment, the receipts will be applied as follows:

- all past due and current Detroit Edison distribution and distribution related charges
- past due and current Alternative Electric Supplier energy charges
- other Detroit Edison charges
- other Alternative Electric Supplier charges

Partial payments resulting from disputed charges shall be allocated first to undisputed charges in each of the above four categories and then to disputed charges in each of the above four categories.

15.4 Detroit Edison will not pursue collection actions for any Alternative Electric Supplier.

E16 DISPUTE RESOLUTION

E16.1 Detroit Edison will have no duty or obligation to resolve any complaints or disputes between or among Alternative Electric Suppliers and Marketers or any combination thereof, related to but not limited to switching Alternative Electric Suppliers, switching Marketers, termination of retail access service, Customer enrollment or Customer billing options.

E16.2 In the event of a dispute between Detroit Edison and an Alternative Electric Supplier, including but not limited to “Events of Default,” the Parties may attempt, in good faith, to resolve the dispute amicably and promptly. If the dispute is not resolved in five (5) business days, the Parties may attempt to resolve the dispute by promptly appointing a senior representative of each Party to attempt to mutually agree upon a resolution. The two senior members shall meet within ten (10) business days. If the two senior representatives cannot reach a resolution within a 30-day period, the dispute may, on demand of either Party, be submitted to arbitration as provided in this section.

E16.3 The dispute will be submitted for resolution in accordance with the American Arbitration Association (“AAA”) Commercial Arbitration Rules. The judgment rendered by the arbitrator may be enforced in any court having jurisdiction of the subject matter and the Parties.

E16.4 If the parties are unable to agree on an arbitrator, the arbitrator shall be determined by AAA.

E16.5 The findings and award of the arbitrator shall be final and conclusive and shall be binding upon the Parties, except as otherwise provided by law. Any award shall specify the manner and extent of the division of the costs between the Parties.

E16.6 Nothing in this Section shall restrict the rights of either Party to file a formal complaint with an appropriate regulatory agency regarding any issue the adjudication of which lies within the exclusive jurisdiction of the regulatory agency.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E17 CUSTOMER PROTECTION

E17.1 Alternative Electric Suppliers shall warrant that the Customer has duly authorized the submitted enrollment and the Alternative Electric Supplier has complied with the provisions of 2000 P.A. 141 or any applicable commission rules developed pursuant to 2000 P.A. 141 to prevent slamming.

E17.2 Detroit Edison provides Residential Customers with pending enrollments with an Alternative Electric Supplier, a 14-day notice period in which the Customer may cancel the enrollment before the switch is executed. If the Customer challenges the enrollment the switch transaction is cancelled, the affected Alternative Electric Supplier(s) are notified, and the enrolling Alternative Electric Supplier shall be assessed the \$5 switching fee instead of the Customer. If the Customer cancels an enrollment in error, the enrolling Alternative Electric Supplier's remedy is to discuss the situation with the Customer and submit a new enrollment.

Commercial and Industrial ROA Customers' right to cancel an enrollment shall be in accordance with the terms of their contract with their Alternative Electric Supplier(s).

E17.3 A supplier must allow the Staff of the Commission an opportunity to review and comment on its residential contract(s) and residential marketing material at least five business days before the Supplier intends to use these contract(s) and marketing material in the marketplace.

MARKETER SECTION

E18 REAL POWER LOSSES

The Marketer used by the Alternative Electric Supplier is responsible for replacing losses associated with the delivery of power to the Customer's meter. The amount of Power delivered by Detroit Edison on the Detroit Edison Distribution System to the Customer's meter shall be adjusted using the following real power loss factors for distribution service:

	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
Secondary	10.88%	11.95%	12.01%	10.23%
4.8/13.2 kV	6.61%	7.13%	7.37%	6.31%
24kV/41.6 kV	1.86%	2.09%	2.34%	1.90%
120 kV and above	0.55%	0.57%	0.57%	0.55%

Marketers must schedule and supply an amount of Power equal to its Customers' hourly usage x [(1 + D%) x (1 + T%)] to account for losses on the ITC Transmission and Detroit Edison Distribution System, where T% is the applicable loss factor *posted on* the *Midwest ISO's OASIS* and D% is the applicable loss factor from the table above.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

E19 OPTIONAL LOAD PROFILE MANAGEMENT SERVICE

The Optional Load Profile Management Service (Load-Leading Service) is no longer available.

E20 HOURLY USAGE DATA TO SUPPORT MISO SETTLEMENT

E20.1 Meter Data Management Agent

At the option of the Marketer, Detroit Edison will act as their Meter Data Management Agent (MDMA) for their customer loads within Detroit Edison's service area. The Marketer is under no obligation to take this service from Detroit Edison.

E20.2 Hourly Usage Data for Interval-Metered Customers

Hourly usage for Primary customers and Secondary customers taking optional interval-metered Retail Access service will be the customer's actual measured usage for each hour increment as recorded by the interval meter.

E20.3 Hourly Usage Data for Customers Without Interval Meters

Standard Retail Access service for Secondary customers is accomplished with Detroit Edison's standard metering for the customer class and type of service taken. There is no requirement for interval metering for Secondary customers.

Hourly usage data for these customers will be determined through the use of MPSC-approved load profiles that will be used to distribute the total usage in the billing period across all the hours in that billing period. The same MPSC-approved profiles must be used for all retail access customers in a given load profiling grouping whether or not Detroit Edison acts as the MDMA.

A. Load Profiles

Secondary customers will be assigned to one of twelve distinct customer groupings, based on customer class (Residential or Non-Residential), type of service (single-phase or three-phase), type of metering (energy only or energy and demand), historical usage characteristics (annual usage, load factor), and if three-phase energy-metered, by major SIC Code grouping (Manufacturing or Non-Manufacturing).

Customers will be assigned to a particular load profile based on their historic information in Detroit Edison's customer systems. Where insufficient history exists, the needed information to assign a profile will be estimated by Detroit Edison.

Customer assignments to a particular load profile will be reviewed annually to see if the customer's annual kWh usage or load factor for the last 12 months merits re-assignment to a different load profile group.

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RETAIL ACCESS SERVICE RIDER – RIDER EC2 (CONTD)

20. HOURLY USAGE DATA TO SUPPORT MISO SETTLEMENT (CONTD)

C. Availability of Load Profile Data

Detroit Edison will post preliminary hourly data for each hour of a given usage day to a Detroit Edison web-site by the end of the first business day following the usage day. Revisions, if needed, will be posted within 10 working days.

When these load profiles are first implemented, Detroit Edison will publish one year's worth of historical data for each profile to assist suppliers' efforts to model the profile.

Detroit Edison will maintain a rolling 12 months of data on the usage web-site after initial implementation.

D. Review of Load Profile Performance

Detroit Edison will continually monitor the performance of the load profiling methodology and will provide a report to the MPSC Staff and all parties to the Metering Collaborative within eighteen months of full implementation

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SECTION F
STANDARD CUSTOMER FORMS INDEX

STANDARD FORMS F-1.00

<http://www.dteenergy.com/businessCustomers/largeBusinesses/electric/electricRates.html>

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