

..DID: 8052
..TXT: PSC NO: 2 ELECTRICITY LEAF: 1
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
COVER

MASSENA ELECTRIC DEPARTMENT
CONCURRENCE TARIFF

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 01/01/2009

LEAF: 2
REVISION: 5
SUPERSEDING REVISION: 4

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Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8057
..TXT: PSC NO: 2 ELECTRICITY LEAF: 3
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99

GENERAL INFORMATION

A. CONCURRENCE:

The Massena Electric Department concurs in and agrees to abide by the rules and regulations as set forth in the generic tariff filed by the New York Municipal Power Agency (NYMPA) in Case No. 97-E-1575.

B. TERRITORY TO WHICH SCHEDULE APPLIES:

These rates, rules and regulations are applicable to the Town of Massena and portion
s of the
Towns
of
Brashe
r,
Louisvi
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Norfol
k and
Stockh
olm,
St.
Lawre
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County
, New
York.

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 EFFECTIVE DATE: 05/01/16

LEAF: 4
 REVISION: 2
 SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 1
 RESIDENTIAL

APPLICABLE TO USE OF SERVICE FOR

Single-phase residential purposes, in an individual residence and in an individual flat or individual apartment in a multiple family dwelling; residential purposes in a rooming house where not more than four rooms are available for rent; single-phase farm service when supplied through the farm residence meter; use exclusively in connection with religious purposes by corporations or associations organized and conducted in good faith for religious purposes, and including the operation by such corporation or association of a school, notwithstanding that secular subjects are taught at such school; for single-phase service exclusively in connection with a community residence as defined in subdivision 28, 28A or 28B of Section 1.03 of the Mental Hygiene Law, provided that such residence is operated by a not-for-profit corporation and if supervisory staff is on site on a twenty-four hour per day basis that the residence provides living accommodations for fourteen or fewer residents; and use for any post or hall owned or leased by a not-for-profit organization that is a veterans organization. Available from MED facilities of adequate capacity adjacent to the premises and at appropriate character.

CHARACTER OF SERVICE

Continuous. Single-phase alternating current, approximately 60 hertz, at one standard secondary voltage approximately 120 volt 2 wire, 120/240 volt 3 wire, or 120/208 volt 3 wire (Network).

MONTHLY RATE (Per Meter)

RATE

Customer Charge, per month

\$6.00

Energy Charge, per kWh

\$0.04017

MINIMUM CHARGE

The minimum monthly charge for electric service is \$6.00

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 01/01/09

LEAF: 5
REVISION: 3
SUPERSEDING REVISION: 0

SERVICE CLASSIFICATION NO. 1 (CONT'D)

PURCHASED POWER ADJUSTMENT (PPA)

All kilowatt-hours sold under this service classification shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid a late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

TERM

Customer agrees to take service on a monthly basis, however, Customer may terminate service after three days' written notice to the MED.

SPECIAL PROVISIONS

In buildings, apartments or flats primarily intended for residential purposes where not more than two rooms, or not more than 50% of the area of the building occupied exclusively by the resident are used for professional or commercial purposes, this classification will apply to both uses. Otherwise, the appropriate Commercial Rate will apply to such professional or commercial use, including residence use if not separately metered.

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..DID: 8040
..TXT: PSC NO: 2 ELECTRICITY LEAF: 6
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 1 (CONT'D)

CONTROLLED WATER HEATING CREDIT

A credit of \$2.00 per billing period shall apply where the Department has installed load control equipment to curtail use of electricity for hot water heating (other than space heating). Curtailments will be at the Department's option but generally shall not exceed four hours per day during those days the Department wishes to limit system peak demands. To qualify for this credit, the load control equipment must be connected to all of customer's domestic hot water supply (other than those used solely for space heating).

In addition to the above credit, customers will receive an additional introductory credit of \$25 (limited to one introductory credit per customer location).

The minimum connection period for this service is one year.

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PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 EFFECTIVE DATE: 05/01/16

LEAF: 7
 REVISION: 5
 SUPERSEDING REVISION: 3

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 2
 SMALL GENERAL SERVICE
 (Without Demand Meter)

APPLICABLE TO USE OF SERVICE FOR

For all purposes by commercial business, professional and small industrial power installations at one point of delivery through one meter having a Demand requirement of less than 7 kW and which is not provided for in other service classifications. Available from MED facilities on adequate capacity adjacent to the premises and of appropriate character.

CHARACTER OF SERVICE

Continuous. Single or three-phase alternating current approximately 60 hertz, at one standard secondary voltage approximately 120 volt 2 wire, 120/240 volt 3 wire, 120/208 volt (Network) 3 wire, 120/208 volt 4 wire, or 277/480 volt 4 wire. The MED will indicate, upon application, the type or types of service available and appropriate to the Customer's requirements.

MONTHLY RATE (Per Meter)

RATE

Customer Charge	\$6.00
Energy Charge, per kWh	\$0.04671

MINIMUM CHARGE

The minimum monthly charge for electric service is \$6.00.

PURCHASED POWER ADJUSTMENT (PPA)

All kilowatt-hours sold under this service classification shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8042
..TXT: PSC NO: 2 ELECTRICITY LEAF: 8
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 2 (CONT'D)

DETERMINATION OF DEMAND

Whenever the energy consumption exceeds 2,000 kilowatt hours per month for three consecutive months then a demand meter shall be installed. When the demand meter indicates a demand of 7 kW or greater for three consecutive months then the billing will be rendered under Service Classification No. 3 or 4 as appropriate as determined by MED. A demand meter, once installed, shall not be removed until after the energy consumption has been less than 2,000 kilowatt hours per month for 12 consecutive months, which requirement may not be avoided by temporarily terminating service.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid a late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

TERM

Customer agrees to take service on a monthly basis, however, Customer may terminate service after three days' written notice to the MED.

SPECIAL PROVISIONS

- a. Where total load and operating schedule is pre-determined as for signs and billboards, the kilowatt hour use may be computed and not measured.
- b. The rates and charges specified herein are applicable to service supplied continuously from month to month and for recurring seasonal service. Temporary, non-recurring service will be provided in accordance with NYMPA generic tariff Rule V (H).

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 INITIAL EFFECTIVE DATE: 05/01/16

LEAF: 9
 REVISION: 5
 SUPERSEDING REVISION: 3

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 3
 SMALL GENERAL SERVICE
 (With Demand Meter)

APPLICABLE TO USE OF SERVICE FOR

For all purposes by commercial business, professional and medium industrial power installations at one point of delivery through one meter having a demand of 7 kW or greater, but less than 25 kW and which is not provided for in other service classifications. Available from MED facilities of adequate capacity adjacent to the premises and of appropriate character.

CHARACTER OF SERVICE

Continuous. Single or three-phase alternating current approximately 60 hertz, at one standard secondary voltage approximately 120/240 volt 3 wire, 120/208 volt (Network) 3 wire, 120/208 volt 4 wire, or 277/480 volt 4 wire. The MED will indicate, upon application, the type or types of service available and appropriate to the Customer's requirements.

<u>MONTHLY RATE (Per Meter)</u>	<u>RATE</u>
Demand Charge, per kW	\$6.00
Energy Charge, per kWh	0.02600

MINIMUM CHARGE

The minimum monthly demand charge for electric service is \$42.00.

PURCHASED POWER ADJUSTMENT (PPA)

All kilowatt-hours sold under this service classification shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8054
..TXT: PSC NO: 2 ELECTRICITY LEAF: 10
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 3 (CONT'D)

DETERMINATION OF DEMAND

The Demand shall be the highest average kilowatts measured in a 15 minute interval during the billing period, but not less than one kilowatt nor less than the demand contracted for.

When the demand is less than 7 kW for 12 consecutive months then the billing will be rendered under Service Classification No. 2. When the demand meter indicates a demand of 25 kW or greater for three consecutive months then the billing will be rendered under Service Classification No. 4 as determined by MED.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid a late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

TERM

Customer agrees to take service on a monthly basis, however, Customer may terminate service after three day's written notice to the MED.

SPECIAL PROVISIONS

- a. Where total load and operating schedule is pre-determined as for signs and billboards, the kilowatt hour use may be computed and not measured.
- b. The rates and charges specified herein are applicable to service supplied continuously from month to month and for recurring seasonal service. Temporary, non-recurring service will be provided in accordance with NYMPA generic tariff Rule V (H).

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PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 EFFECTIVE DATE: 05/01/16

LEAF: 11
 REVISION: 2
 SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 4
 LARGE GENERAL SERVICE

APPLICABLE TO USE OF SERVICE FOR

For all purposes not otherwise specifically provided for in other Service Classifications in this schedule when Active Demand is 25 kW or greater. Available from MED facilities of adequate capacity adjacent to the premises and of appropriate character.

CHARACTER OF SERVICE

Continuous. Single or three-phase alternating current approximately 60 hertz. The MED will indicate voltage available and appropriate to the Customer's requirements. Characteristics depend upon available circuits.

MONTHLY RATE (Per Meter)

	<u>RATE</u>
DEMAND CHARGE:	
Demand, per kW	\$7.41
PLUS REACTIVE DEMAND CHARGE:	
For each kilovolt-ampere of lagging Reactive Demand, per kVAr	\$0.45
PLUS ENERGY CHARGE:	
Energy, per kWh	0.01711

MINIMUM CHARGE

The minimum monthly demand charge is \$185.25 or the charge computed under MONTHLY RATE, the demand being determined in accordance with the provisions included under DETERMINATION OF DEMAND.

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 01/01/09

LEAF: 12
REVISION: 3
SUPERSEDING REVISION: 0

SERVICE CLASSIFICATION NO. 4 (CONT'D)

PURCHASED POWER ADJUSTMENT (PPA)

All kilowatt-hours sold under this service classification shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

TERM

One year from commencement of service under this Service Classification or under a Service Classification superseded hereby, and thereafter until canceled by Customer upon 90 days' prior written notice to the MED. Cancellation by Customer followed by resumption of service at the same location within one year shall not modify in any way the determination of Demand. When the amount of investment by the MED or other conditions of the service are such as to warrant, the MED may, with the permission of the Public Service Commission, require the initial term be longer than one year.

DETERMINATION OF DEMAND

The Demand shall be the highest average kilowatts measured in a 15-minute interval during the month, but not less than three quarters of the highest such Demand occurring during any of the preceding 11 months. When the Demand is less than 24 kW for 12 consecutive months, which requirement may not be avoided by temporarily terminating service, then the billing will be rendered under Service Classification No. 2 or 3 as appropriate as determined by MED.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8046
..TXT: PSC NO: 2 ELECTRICITY LEAF: 13
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 4 (CONT'D)

- b. The Reactive Demand shall be the highest average kilovolt-amperes of lagging reactive demand measured in a 15-minute interval during the month less one-third of the highest kilowatt demand measured during the month. The Reactive Demand shall be determined when Customer's kilowatt demand has exceeded 500 kilowatts for three consecutive months or when the connected load of Customer indicates that the kilowatt demand may normally exceed 500 kilowatts. Reactive Demand determination shall continue until the kilowatt demand has been less than 500 kilowatts for 12 consecutive months.

HIGH VOLTAGE CREDIT

A high voltage credit will be applicable when a Customer receives a service voltage higher than 2,200 volts. When a Customer provides the high voltage equipment to accept a service voltage higher than 2,200 volts, then the service voltage will be the incoming line voltage. When the MED provides all or part of the high voltage equipment, the service voltage will be the secondary voltage of the transformer.

For service at voltages in excess of 2,200 volts, the Demand Charge will be modified as follows:

1. Service voltage between 2,200 and 15,000 volts, the Demand Charge will be reduced by forth-six cents (\$0.46) per kW of demand billed above the first 25 kW.
2. Service voltage above 15,000 volts, the Demand Charge will be reduced by ninety-four cents (\$0.94) per kW of demand billed above the first 25 kW.

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8047
..TXT: PSC NO: 2 ELECTRICITY LEAF: 14
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 4 (CONT'D)

LOAD CONTROL SERVICE

A credit of \$4.50 per kW of billing demand curtailed shall apply where the Department has installed load control equipment to curtail the customer's load. Curtailments will be at the Department's option but generally shall not exceed four hours per day during those days the Department wishes to limit system peak demand.

The minimum connection period for this service is one year. Should the customer decide to discontinue this service within the first year, the customer shall be required to return all monthly credits to the Department.

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 05/01/16

LEAF: 15
REVISION: 1
SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

Reserved for Future Use

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 05/01/16

LEAF: 16
REVISION: 1
SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

Reserved for Future Use

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PSC NO: 2 ELECTRICITY LEAF: 17
 COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 2
 EFFECTIVE DATE: 05/01/16 SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 6
 PRIVATE AREA LIGHTING

APPLICABLE TO USE OF SERVICE FOR

Private Outdoor Lighting from multiple circuits. Available from MED facilities of adequate capacity adjacent to the premises and of appropriate character.

CHARACTER OF SERVICE

Unmetered service for limited period, approximately 4,170 hours per year, approximately 60 hertz alternating current at approximately 120/240 volts.

MONTHLY RATE

LAMPS AND LUMINARIES:

	<u>Standard Size</u>	<u>Wattage</u>	<u>Unit Rate</u>
Mercury Vapor (*)	175 Watt	208	\$ 8.63
	400 Watt	460	13.88
High Pressure Sodium	70 Watt	105	7.67
	100 Watt	146	8.65
	150 Watt	182	9.58
	250 Watt	302	12.02
	400 Watt	480	14.69

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PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 INITIAL EFFECTIVE DATE: 05/01/16

LEAF: 18
 REVISION: 5
 SUPERSEDING REVISION: 3

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 6 (CONT'D)

Flood Lighting	Standard Size	Wattage	Unit Rate
Mercury Vapor (*)	400 Watt	460	\$18.56
High Pressure Sodium	400 Watt	480	19.38

(*) Not available for new installations

FACILITIES

Wood Poles	\$3.17
Units of Overhead Circuit (per 150 Feet)	.94

PURCHASED POWER ADJUSTMENT (PPA)

All charges set forth herein shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

The electric service is not metered monthly; an estimate of the kWh's used will be determined by the MED. The estimated monthly energy used in light fixtures with photoelectric cells will be determined by multiplying the wattage for the total lamps installed by the number of burning hours of the particular month shown below and dividing the resultant by 1,000 to achieve the monthly kWh's used.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8060
 ..TXT: PSC NO: 2 ELECTRICITY LEAF: 19
 COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
 INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
 STAMPS:
 RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 6 (CONT'D)

Estimated Burning Hours

<u>Month</u>	<u>Burning Hours</u>
January	444
February	368 (381 leap year)
March	362
April	305
May	275
June	246
July	264
August	301
September	334
October	393
November	421
December	457

MINIMUM CHARGE

The charge computed under MONTHLY RATE.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid a late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

TERM

One year, commencing at the date of installation, and thereafter from year to year until canceled by the Customer upon 30 day's written notice to the MED.

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8062
..TXT: PSC NO: 2 ELECTRICITY LEAF: 20
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 6 (CONT'D)

SPECIAL PROVISIONS

- a. The MED will furnish, install, own, operate and maintain an enclosed, photoelectrically controlled Mercury or High Pressure Sodium luminaire complete with at least 30-inch pipe bracket, ballast and from 150 Watt to 1,000 Watt multiple lamp.
- b. The lighting unit will be installed only on private property owned or leased by the Customer. The Customer will furnish the necessary pole or other support, except as hereinafter provided, and the necessary wiring to connect the unit on the line side of the Customer's meter. The MED reserves the right to require a mounting height which will provide proper light distribution from the unit. Where a MED owned pole is appropriately located on premises owned or leased by the Customer, the MED may waive the requirement that the support be furnished by the Customer, and it may install the unit on the MED-owned pole.
- c. Upon request of the Customer, the MED will change the location of the lighting unit, providing a proper support is furnished and the Customer agrees to pay the MED for the cost incurred in making such change.
- d. Lighting service will be provided every night from dusk to dawn aggregating approximately 4,170 hours per year, unless prevented by accidents or other causes beyond the control of the MED.
- e. The Customer shall notify the MED whenever the lamp shall become extinguished or out of service for any reason and the MED shall replace the lamp and/or make the necessary repairs during normal working hours.

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY LEAF: 21
 COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 3
 EFFECTIVE DATE: 08/17/16 SUPERSEDING REVISION: 2

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 7
 PUBLIC STREET LIGHTING

APPLICABLE TO USE OF SERVICE FOR

For Public Street lighting purposes within the Franchise Area. Available from MED facilities of adequate capacity adjacent to the premises and of appropriate character.

CHARACTER OF SERVICE

Unmetered service for limited period, approximately 4,170 hours per year, approximately 60 hertz alternating current at approximately 120/240 volts.

MONTHLY RATE

LAMPS AND LUMINARIES:

	<u>Standard Size</u>	<u>Wattage</u>	<u>Unit Rate</u>
Mercury Vapor (*)	175 Watt	208	\$ 8.63
	400 Watt	460	13.88
High Pressure Sodium	70 Watt	105	7.67
	100 Watt	146	8.65
	150 Watt	182	9.58
	250 Watt	302	12.02
	400 Watt	480	14.69

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 EFFECTIVE DATE: 05/01/16

LEAF: 22
 REVISION: 2
 SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 7 (CONT'D)

<u>Flood Lighting</u>	<u>Standard Size</u>	<u>Wattage</u>	<u>Unit Rate</u>
Mercury Vapor (*)	400 Watt	460	\$18.56
High Pressure Sodium	400 Watt	480	\$19.38

(*) Not available for new installations

FACILITIES

Overhead Service:

Installed on existing wood pole	No Charge
Wood Pole with one span of wire	\$2.67
Steel Pole & Foundation with one span of wire	5.53
Aluminum Pole & Foundation with one span of wire	9.15

Underground Service

Steel Pole & Foundation - 16 ft. & under in height	\$3.92
Steel Pole & Foundation - over 16 ft. in height	7.40
Aluminum Pole & Foundation - 16 ft. & under in height	4.82
Aluminum Pole & Foundation - over 16 ft. in height	9.15

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 01/01/09

LEAF: 23
REVISION: 3
SUPERSEDING REVISION: 0

SERVICE CLASSIFICATION NO. 7 (CONT'D)

MINIMUM CHARGE

The charge computed under MONTHLY RATE.

TERMS OF PAYMENT

All bills are due when rendered. Full payment must be received on or before the date shown on the bill to avoid a late payment charge of one and one-half percent (1-1/2%) pursuant to NYMPA generic tariff Rule VIII (D).

PURCHASED POWER ADJUSTMENT (PPA)

The charges set forth herein shall be subject to Purchased Power Adjustment Charges in accordance with Section XII of the Massena Electric Department Tariff and consistent with Rule IX of the NYMPA generic tariff.

The electric service is not metered monthly; an estimate of the kWh's used will be determined by the MED. The estimated monthly energy used in light fixtures with photoelectric cells will be determined by multiplying the wattage for the total lamps installed by the number of burning hours for the particular month shown below and dividing the resultant by 1,000 to achieve the monthly kWh's used.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8066
 ..TXT: PSC NO: 2 ELECTRICITY LEAF: 24
 COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
 INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
 STAMPS:
 RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 7 (CONT'D)

Estimated Burning Hours

<u>Month</u>	<u>Burning Hours</u>
January	444
February	368 (381 leap year)
March	362
April	305
May	275
June	246
July	264
August	301
September	334
October	393
November	421
December	457

TERM

One year, commencing at the date of installation, and thereafter from year to year until canceled by the customer upon 30 days' written notice to the MED.

Issued by: Edward J. Kaneb, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

..DID: 8067
..TXT: PSC NO: 2 ELECTRICITY LEAF: 25
COMPANY: MASSENA ELECTRIC DEPARTMENT REVISION: 0
INITIAL EFFECTIVE DATE: 07/01/99 SUPERSEDING REVISION:
STAMPS:
RECEIVED: 04/12/99 STATUS: Effective EFFECTIVE: 07/01/99
SERVICE CLASSIFICATION NO. 7 (CONT'D)

SPECIAL PROVISIONS

- a. The MED will furnish, install, own, operate and maintain an enclosed, photoelectrically controlled Mercury or High Pressure Sodium luminaire complete with at least 30-inch pipe bracket, ballast and from 150 Watt to 1,000 Watt multiple lamp.
- b. The lighting unit will be installed only on public property. The Customer will furnish the necessary pole or other support, except as hereinafter provided, and the necessary wiring to connect the unit on the line side of the Customer's meter.

The MED reserves the right to require a mounting height which will provide proper light distribution from the unit. Where a MED-owned pole is appropriately located, the MED may waive the requirement that the support be furnished by the Customer, and it may install the unit on the MED-owned pole.

- c. Upon request of the Customer, the MED will change the location of the lighting unit, providing a proper support is furnished and the Customer agrees to pay the MED for the cost incurred in making such change if the unit has not been in service for at least one year.
- d. Lighting service will be provided every night from dusk to dawn, aggregating approximately 4,170 hours per year, unless prevented by accidents or other causes beyond the control of the MED.
- e. The Customer shall notify the MED whenever the lamp shall become extinguished or out of service for any reason and the MED shall replace the lamp and/or make the necessary repairs during the normal working hours.

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 01/01/2006

LEAF: 26
REVISION: 1
SUPERSEDING ORIGINAL

CHARGES

A. Reconnection Charge:

When service has been discontinued and the same customer applies for reconnection of service at the same location within 12 months, a reconnection charge will be made. In case service is resumed by customer at the same location within the same billing period, service will be billed for the entire billing period without giving effect to the temporary suspension. Customer is not allowed to use temporary discontinuance of service to establish a more favorable rate.

Reconnection Charges:

Per service which is re-established:

Single-Phase Service

During normal working hours	\$ 35.00
After normal working hours	\$ 100.00
During normal working hours via pole reconnection	\$ 50.00
After normal working hours via pole reconnection	\$ 150.00

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 01/01/2006

LEAF: 27
REVISION: 2
SUPERSEDING REVISION: 1

CHARGES (CONT'D)

Three-Phase Service

During normal working hours	\$ 35.00
After normal working hours	\$100.00
During normal working hours via pole reconnection	\$ 50.00
After normal working hours via pole reconnection	\$150.00

Normal working hours: Proper arrangements for reconnection are made during the hours of 9:00 a.m. to 3:00 p.m. on any day MED employees normally work. Arrangements made after 3:00 p.m. will be considered after normal working hours unless customer accepts reconnection on the next business day.

B. Equipment Relocation

Whenever, at customer's request, MED relocates equipment of facilities to suit the convenience of the customer, the customer shall reimburse MED the cost incurred, plus a charge of 30% on material and 50% on labor to cover indirect overhead costs.

C. Special Installation Work

The applicant shall pay the cost of any special installation to meet their particular requirements for service at other than standard voltage or frequency, and for the supply of closer voltage regulation than is required by standard practice.

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 01/01/2008

LEAF: 28
REVISION: 2
SUPERSEDING: 1

CHARGES (CONT'D)

D. Contract or Jobbing Work

Construction jobbing or contract work on customer's premises such as wiring, installation of appliances or motors, or such services, the costs of which are not normally included in the Operating Property or Maintenance Accounts of MED, performed by MED will be charged for on the basis of current labor, transportation and material costs plus a charge of 30% on material and 50% on labor to cover indirect overhead costs.

E. Outside Contractors

Whenever it becomes necessary for MED to use outside contractors or where the need of Special Services (not normally provided for by MED personnel) are required for the convenience of the customer, MED will bill the customer actual costs plus a 5% administration charge to cover indirect costs.

F. Rentals

- | | |
|--|---------|
| 1. Use of pole for private equipment to serve public, per attachment | \$ 8.51 |
| 2. CATV power supply, per attachment, per month, plus PPA. PPA based on 315 kW/mo. | \$21.44 |
| 3. Telephone booth, per attachment, PLUS monthly minimum under S.C. No. 2 and PPA | N/C |

- | | |
|--|--------|
| G. Traffic signal lights, per energy face (a 69 watt bulb with a 6-inch refractor), per month plus PPA. PPA based on 50 kWh/mo.. | \$1.30 |
|--|--------|

H. Dishonored Payment

Should MED receive a negotiable instrument from a customer or applicant as payment of any bill, charge or deposit due, and such instrument is subsequently dishonored or is uncollectible for any reason, the Company may charge back to the customer or applicant any credits given by virtue of the receipt of such negotiable instrument and treat the account as if no such payment was ever received.

In addition, the Company shall charge the applicant or customer a \$15.00 handling charge on such instrument.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

P.S.C. No.: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 11/01/2006

LEAF No.: 29
REVISION: 2
SUPERCEDING REVISION: 1

Issued in compliance with order in Case 06-E-0288 dated 10/25/2006

RIDER No. 1 - Economic Development is cancelled

P.S.C. No.: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 11/01/2006

LEAF No.: 30
REVISION: 2
SUPERCEDING REVISION: 1

Issued in compliance with order in Case 06-E-0288 dated 10/25/2006

RIDER No. 1 - Economic Development is cancelled

P.S.C. No.: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 11/01/2006

LEAF No.: 31
REVISION: 2
SUPERCEDING REVISION: 1

Issued in compliance with order in Case 06-E-0288 dated 10/25/2006

RIDER No. 1 - Economic Development is cancelled

P.S.C. No.: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 11/01/2006

LEAF No.: 32
REVISION: 2
SUPERCEDING REVISION: 1

Issued in compliance with order in Case 06-E-0288 dated 10/25/2006

RIDER No. 1 - Economic Development is cancelled

Issued by: James Shaw, Chairman, MEUB, P.O. Box 209, Massena, NY 13662-0209

P.S.C. No.: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 11/01/2006

LEAF No.: 33
REVISION: 2
SUPERCEDING REVISION: 1

Issued in compliance with order in Case 06-E-0288 dated 10/25/2006

RIDER No. 1 - Economic Development is cancelled

Issued by: James Shaw, Chairman, MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 11/01/2006

LEAF: 34
REVISION: 1
SUPERSEDING REVISION: 0

SERVICE CLASSIFICATION NO. 8
Individual Service Agreements

APPLICABLE TO THE USE OF SERVICE FOR:

Electric service under this tariff is for non-residential customers who would normally be served under Service Classification No. 4 and meet all of the criteria contained in this rider. Utilizing Individual Service Agreements signed under this tariff, MED proposes to provide incentives and thus promote the location of new business ventures within MED's service territory, as well as promote the expansion of current non-residential customers.

ELIGIBILITY:

Eligible customers for this service classification are customers who develop or construct new facilities, extensively refurbish an existing or retired facility or expand production at an existing facility and the new or added demand is at least 100 kW. To be eligible to participate for this service, customers shall also meet and continue to satisfy NYPA's requirements listed in the Municipal and Rural Cooperative Industrial Economic Development Program Guidelines as they may be modified from time to time, or requirements for other NYPA Economic Development power supply programs as they may be modified from time to time, and shall work with MED to receive an allocation of additional demand and energy from NYPA. It shall be a condition precedent for service pursuant to this classification that MED receive an additional allocation of energy and demand from NYPA. Should any such additional allocation of power be changed, lessened or modified, MED reserves the right to alter the ISA or transfer the customer to S.C. No. 4 service, or other rate class available at that time.

In addition, the eligible customer must supply documentation of a viable alternative, competitive energy supplier outside of MED's service territory or show that its product offerings would be less competitive within their relevant geographic market (local, national, or international) but for the existence of the rates offered under this service classification.

CONTRACT TERM:

The term of any initial offering of an Individual Service Agreement ("ISA") shall be at least twelve months and shall be limited to a term of five years unless a longer term is approved by the New York State Public Service Commission. If a customer desires an ISA with a term in excess of five years and MED is willing to agree to this arrangement, MED will request authorization from the New York State Public Service Commission to enter into that arrangement. If the Commission grants MED the authority it requests on terms acceptable to them, MED will then enter into the agreement.

FILING REQUIREMENTS:

MED will file information concerning each Individual Service Agreement with the Public Service Commission within 30 days of executing the agreement. Quarterly, MED will file reports to the Public Service Commission detailing the number of Individual Service Agreements, capacity associated with the Individual Service Agreements and revenues collected from Individual Service Agreements.

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 11/01/2006

LEAF: 35
REVISION: 3
SUPERSEDING REVISION: 2

SERVICE CLASSIFICATION NO. 8 (CONT'D)
Individual Service Agreements

FINANCIAL ARRANGEMENTS –

At the sole discretion of the MED, the MED may waive certain costs due to it, in whole or in part, or make other necessary financial arrangements with customers served under this Rider, so long as the MED believes that the revenue derived from the applicant will provide sufficient revenue over and above the incremental cost incurred by the MED. These costs include, but are not limited to the following:

- (A) Special installation to meet their particular requirements for service at other than standard voltage or frequency and for the supply of closer voltage regulation than is required by standard practice. (See Section C, Tariff Leaf No.: 27)
- (B) Surety bonds

TERM –

The term of each Individual Service Agreement will not exceed five years.

All customers receiving service under this service classification will not be charged the PPAC (purchase power adjustment).

For all contracts entered under this service classification, MED will request trade secret protection so rates and terms are not available to the general public.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 05/01/16

LEAF: 36
REVISION: 6
SUPERSEDING REVISION: 4

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

PURCHASED POWER ADJUSTMENT CHARGE (PPAC)

APPLICABILITY

All customers receiving service under any of the Massena Electric Department service classifications are subject to purchased power adjustment charges, except those customers receiving service under Service Classification No. 8 (Individual Service Agreements).

ADJUSTMENT CHARGE

The PPAC shall be the amount added to each kilowatt-hour of each rate schedule to reflect and recover all purchased power and transmission costs billed to the Massena Electric Department from all service providers.

BASE COST OF POWER

The base cost of power for computation of the PPAC shall be \$0.016403/kilowatt-hour as measured at the system input level. The base cost of power measured at the sales level shall be \$0.017109/kilowatt-hour.

CALCULATION OF THE PURCHASED POWER ADJUSTMENT CHARGE

During the Summer Period (for bills issued during the months of May through October inclusive) the PPAC shall equal the total cost of all power and transmission costs billed to the Massena Electric Department during the prior month divided by the total kWh purchases in that month less the base cost of purchased power measured at system input level adjusted by a loss factor (Factor of Adjustment) of 1.0431. The resultant cost per kilowatt-hour shall be rounded to the nearest \$0.000001/kilowatt-hour and applied as a charge or credit to all kilowatt-hours billed in the following month.

During the Winter Period (for bills issued during the months of November through April inclusive), the PPAC is divided into two parts; the "Supplemental Power PPAC" and the "Base PPAC". The Supplemental Power PPAC shall consist of all power and transmission charges from Supplemental Power suppliers including charges for demand and energy for Supplemental Power and charges for NTAC, ISO Transmission Charges, ISO Ancillary Services and any charges related to scheduling in order to transmit the Supplemental power to Massena divided by the kWh of Supplemental Power delivered for the month associated with the Supplemental Power Costs less the base cost of purchased power measured at system input level adjusted by a loss factor (Factor of Adjustment) of 1.0431. The resultant cost per kilowatt-hour shall be rounded to the nearest \$0.000001/kilowatt-hour and applied as a charge or credit to the actual usage for customers in Service Classification No. 1 for their usage above 1,500 kWh in the following month.

The Base PPAC shall equal the total cost of power and transmission costs billed to the Massena Electric Department less the estimated revenues from Service Classification No. 1 for usage above 1,500 kWh for the appropriate month divided by the difference between the total kWh purchases in that month and the Weather Normalized Service Classification No. 1 Sales above 1,500 kWh adjusted by the loss factor of 1.0431. The quotient is reduced by the base cost of power measured at system input level, and then adjusted by the loss factor of

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PSC NO: 2 ELECTRICITY
 COMPANY: MASSENA ELECTRIC DEPARTMENT
 INITIAL EFFECTIVE DATE: 05/01/16

LEAF 37
 REVISION: 2
 SUPERSEDING REVISION: 0

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

PURCHASED POWER ADJUSTMENT CHARGE (con't)

1.0431. The resultant cost per kilowatt-hour shall be rounded to the nearest \$0.000001/kilowatt-hour.

The "Supplemental" and "Base" PPAC calculation will be phased in over a four year period effective

11/01/16 to 04/30/17 – 75% of the PPAC will be based on the "Summer Period" calculation and 25% will be based "Winter Period" calculation

11/01/17 to 04/30/18 – 50% of the PPAC will be based on the "Summer Period" calculation and 50% will be based "Winter Period" calculation

11/01/18 to 04/30/19 – 25% of the PPAC will be based on the "Summer Period" calculation and 75% will be based "Winter Period" calculation

11/01/19 – PPAC will be based on the calculation described in the Calculation of the Purchase Power Adjustment Charge section of this tariff.

Calculation of Estimated Revenues from Service Classification No. 1

The estimated revenues from Service Classification No. 1 for usage above 1,500 kWh is equal to the weather normalized sales of usage above 1,500 kWh for the appropriate month times the Supplemental PPAC defined above. The weather normalized sales to Service Classification No. 1 are defined as follows:

Month	Weather Normalized Sales to S.C. No. 1(kWh)
November	1,355,150
December	3,710,941
January	6,176,219
February	7,070,761
March	4,400,015
April	2,941,244

OTHER CHARGES AND CREDITS

The Massena Electric Department may include in the PPAC reconciliations of prior period over or under recovery of power and transmission costs, additional one-time or irregular credits or charges resulting from prior period billing adjustments or refunds, and one-time or irregular charges associated with regulatory requirements. In the event of prior period reconciliation, the total cumulative amount of under or over collection in dollars shall be

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
INITIAL EFFECTIVE DATE: 05/01/16

LEAF: 37.1
REVISION: 0
SUPERSEDING REVISION:

Issued in compliance with Commission Order issued April 21, 2016 in Case 15-E-0307

PURCHASED POWER ADJUSTMENT CHARGE (con't)

divided by the most recent twelve months of kWh sales. The resultant cost per kilowatt-hour shall be rounded to the nearest \$0.000001/kilowatt-hour and added or subtracted from the current months PPAC charge. The total cumulative amount will be adjusted for the amount collected or refunded in the month.

PPAC RECONCILIATION

At the end of each month the Massena Electric Department will perform a calculation to determine whether an under or over collection of purchased power expense occurred during the preceding month. The calculation is follows:

Total Purchased Power Cost minus (kWh sold x Base Cost of Power x Loss Factor)

The result will then be compared to the actual PPAC revenues recovered during the same period to determine the amount to be added to or subtracted from the total cumulative amount of under or over collection.

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 07/01/16

LEAF: 38
REVISION: 7
SUPERSEDING REVISION: 6

(Issued in compliance with Commission Order in case 09-M-0311 issued June 18, 2014 and April 17, 2015)

TEMPORARY STATE ASSESSMENT ADJUSTMENT

Pursuant to Section 18-a(6) of the Public Service Law (PSL), and Case 09-M-0311 Implementation of Chapter 59 of the Laws of 2009 Establishing a Temporary Annual Assessment Pursuant to Public Service Law Section 18-a(6) (the Order), the Town of Massena Electric Department (Massena Electric) is authorized to implement a surcharge to recover the Temporary State Energy and Utility Service Conservation Assessment (Temporary State Assessment).

The Temporary State Assessment, which is applicable to municipal electric corporations, requires an annual payment equal to .73% of gross operating revenues from intrastate utility operations, exclusive of the first \$500,000, less the amounts assessed for Department of Public Service costs and expenses (General Assessment) that are authorized in the annual State Budget.

Massena Electric will utilize the surcharge method of recovery. The rates and charges for service under all Service Classifications including fuel adjustment charges will have an additional surcharge. The surcharge will be calculated as a percentage of each bill rendered, such percentage will be uniform for all Service Classifications. This alleviates any disparate treatment between Service Classifications. For the year July 1, 2016 through June 30, 2017 the rate charged for recovery will be 0.51%. This rate was developed using the Temporary State Assessment Adjustment and the projected sales for the period July 1, 2016 through June 30, 2017. No carrying charges will be imputed at this time as Massena Electric has the funds necessary to cover the Temporary State Assessment and will not be seeking additional funding at this time. Reconciliation of the amounts collected through the surcharge will be performed annually. In each subsequent year, a new Temporary State Assessment surcharge will be calculated, due to changes in projected intrastate gross operating revenues.

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: January 1, 2011

Effective Date: 01/01/2011
LEAF: 39
REVISION: 1
SUPERSEDING REVISION: 0

SERVICE CLASSIFICATION NO. 9

PURCHASE OF RENEWABLE ENERGY FROM NEW DISTRIBUTED GENERATORS

ELIGIBILITY:

Residential or non-residential customers who receive service under Service Classification No. 1, 2, 3, 4 or 8 and own or operate Solar or Wind Electric Generating Equipment with a rated capacity of no more than fifteen kilowatts (15 kW) located and used at their premise. Qualifying Customers must install and operate the Solar or Wind Generating system in compliance with *Standard Interconnection Requirements and Application Process for New Distributed Generators*, connected in parallel to utility distribution systems, as may be from time to time changed, amended and/or supplemented. Qualifying Customers must also complete *Form "A" – Standardized Contract for Interconnection of New Distributed Generation Units With Capacity of 15 kW or Less, Connected in Parallel With Utility Distribution Systems*. This program will be available to qualifying customers on a first come, first served basis, until the total rated generating capacity for Solar and Wind Electric Generating Equipment owned or operated by the Customer in MED's service territory is equivalent to 250 kW (one-percent of the MED's average system load).

INTERCONNECTION COSTS:

Customers receiving service under this service classification will be responsible for 100% of necessary interconnection costs. An estimate shall be provided to applicants and (i) shall include the costs associated with any required modifications to the utility system, administration, metering, and on-site verification testing, as required under *Standard Interconnection Requirements* of this tariff and (ii) shall include the cost of installing any dedicated transformer(s) and other safety equipment, necessary to protect the safety and adequacy of electric service to other customers as required under *Standard Interconnection Requirements* of this tariff.

MONTHLY CHARGES AND CREDITS:

MED will employ the following billing procedure to establish each monthly bill for electric service rendered to customers who own or operate Solar or Wind Electric Generating Equipment and qualify for Service Classification No. 9.

Meters will be read on a monthly schedule in conjunction with the MED's reading of the meter installed to measure deliveries of electric energy to the customer.

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: 06/09/16

LEAF: 40
REVISION: 2
SUPERSEDING REVISION: 1

Issued in compliance with Commission Order Issued April 21, 2016 in Case 15-E-0307

SERVICE CLASSIFICATION NO. 9 (CONT'D)

At the end of each billing cycle, if the energy amount delivered to the customer by MED is more than the energy supplied by the customer to MED, MED will charge the customer the rates provided in the retail rate schedule applicable to the customer for the difference. If the energy supplied by the customer to MED is more than the energy amount delivered to the customer by MED, the customer will get a credit on its monthly bill for the difference. The credit shall equal the difference in kWhrs times the average monthly cost of energy. The average monthly cost of energy shall equal the total cost of all power and transmission costs billed to MED in each month divided by the total kWhrs purchases in that month, adjusted by the Factor of Adjustment of 1.0431.

CUSTOMER CREDIT

In the event that the credit received by the customer is greater than charges incurred by the customer during the billing period, a credit will be carried over to the next billing period and used to offset that month's charges incurred by the customer. If a credit remains after the next billing, the credit will be carried over to subsequent billings periods and used to offset monthly charges incurred until fully credited to the customer.

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: October 1, 2010

LEAF: 41
REVISION: 0

STANDARDIZED INTERCONNECTION REQUIREMENTS AND APPLICATION PROCESS FOR NEW DISTRIBUTED GENERATORS

ELIGIBILITY:

Customers who wish to interconnect new Solar or Wind Electric Generating Equipment with a rated capacity of no more than fifteen kilowatts (15 kW), connected to Radial Distribution Lines (aggregated on the customer side of the point of common coupling ("PCC")) connected in parallel to radial distribution feeders. Customers and applicants with new Solar or Wind Electric Generating Equipment agree to comply with the requirements presented in this section of the tariff, as may be amended, revised, modified, clarified, supplemented or superseded. Facility output is not to exceed 110% of annual electrical energy load. Load shall be determined through reference to the total energy billed the premise in the most recent 12 month period.

Customers and applicants eligible based on criteria above, are required to execute Form "A", "Massena Electric's Contract for Interconnection of Solar or Wind Electric Generating Equipment with Capacity of 15 kW or Less Connected in Parallel with Massena Electric's Distribution Systems". Form "A" is subject to future amendments as may be set forth in PSC authorized revisions to this Tariff.

APPLICATION PROCESS

INITIAL COMMUNICATION FROM THE POTENTIAL APPLICANT

Communication could range from a general inquiry to a completed application.

INQUIRY IS REVIEWED BY UTILITY STAFF

Technical staff from the utility discusses the scope of the interconnection with the potential applicant (either by phone or in person) to determine what specific information and documents (such as an application, contract, technical requirements, specifications, listing of qualified type-tested equipment/systems, application fee information, applicable rate schedules, and metering requirements) will be provided to the potential applicant. The preliminary technical feasibility of the project at the proposed location may also be discussed at this time. All such information and a copy of the standardized interconnection requirements must be sent to the applicant within three (3) business days following the initial communication from the potential applicant, unless the potential applicant indicates otherwise. A utility representative will be designated to serve as the single point of contact for the applicant (unless the utility informs the applicant otherwise) in coordinating the potential applicant's project with the utility.

FILING OF AN APPLICATION

The potential applicant must submit application to MED. The submittal must include a copy of equipment certification to UL 1741, latest revision, as applicable, a three line diagram specific to the proposed system, a letter of authorization (if applicant is agent for the customer), and payment of a \$50 application

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: October 1, 2010

LEAF: 42
REVISION: 0

fee. If the applicant proceeds with the project to completion, the application fee will be applied as a payment to the utility's total cost for interconnection, including the cost of processing the application. Within five (5) business days of receiving the application, the utility will notify the applicant of receipt and whether the application has been completed adequately. It is in the best interest of the applicant to provide the utility with all pertinent technical information as early as possible in the process. If the required documentation is presented in this step, it will allow the utility to perform the required reviews and allow the process to proceed as expeditiously as possible.

UTILITY COMPLETES THE COORDINATED ELECTRIC SYSTEM INTERCONNECTION REVIEW (CESIR)

A CESIR will be performed by the utility within fifteen (15) business days after receipt of application to determine if the proposed generation on the circuit results in any relay coordination, fault current, and/or voltage regulation problems.

The CESIR will consist of two parts:

1. Review of the impacts to the utility system associated with the interconnection of the proposed system, and
2. Review of the proposed system's compliance with the applicable criteria set forth below.

Upon completion of the CESIR, the utility will provide the following, in writing, to the applicant:

1. utility system impacts, if any;
2. notification of whether the proposed system meets the applicable criteria considered in the CESIR process;
3. if applicable, a description of where the proposed system is not in compliance with these requirements;
4. a good faith, detailed estimate of the total cost of completion of the interconnection of the proposed system and/or a statement of cost responsibility for required interconnection equipment.

APPLICANT COMMITS TO UTILITY CONSTRUCTION OF UTILITY'S SYSTEM MODIFICATIONS

The applicant and utility will execute "Form A", a standardized contract for interconnection and the applicant will provide the utility with an advance payment for the utility's estimated costs as identified in good faith estimate provided by MED as part of the completion of the CESIR (estimated costs will be reconciled with actual costs as part of final acceptance).

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PSC NO: 2 ELECTRICITY
COMPANY: MASSENA ELECTRIC DEPARTMENT
EFFECTIVE DATE: October 1, 2010

LEAF: 43
REVISION: 0

PROJECT CONSTRUCTION

The applicant will build the facility in accordance with the utility-accepted design. The utility will commence construction/installation of system modifications and metering requirements as identified in completion of CESIR. Utility system modifications will vary in construction time depending on the extent of work and equipment required. The schedule for this work is to be discussed and agreed upon with the applicant.

TEST FACILITY IN ACCORDANCE WITH STANDARDIZED INTERCONNECTION REQUIREMENTS

The verification testing will be performed in accordance with the written test procedure provided in the detailed interconnection design package and any site-specific requirements identified by the utility. Final testing will be conducted within ten (10) business days of complete installation at a mutually agreeable time and shall be witnessed by MED.

INTERCONNECTION

The applicant's facility will be allowed to commence parallel operation upon satisfactory completion of the facility's tests. In addition, the applicant must have complied with and must continue to comply with all contractual and technical requirements.

FINAL ACCEPTANCE AND UTILITY COST RECONCILIATION

Within ten (10) business days of the test, the utility will issue to the applicant either a formal letter of acceptance for interconnection or a detailed explanation of the deficiencies in the system. At this time, the utility will also reconcile its actual costs related to the applicant's project against the application fee and advance payments made by the applicant. The applicant will receive either a bill for any balance due or a reimbursement for overpayment as determined by the utility's reconciliation.

INTERCONNECTION REQUIREMENTS

DESIGN REQUIREMENTS

1. Common

The generator-owner shall provide appropriate protection and control equipment, including a protective device that utilizes an automatic disconnect device that will disconnect the generation in the event that the portion of the utility system that serves the generator is de-energized for any reason or for a fault in the generator-owner's system. The generator-owner's protection and control equipment shall be capable of automatically disconnecting the generation upon detection of an islanding condition and upon detection of a utility system fault.

Issued by: James Shaw, Chairman MEUB, P.O. Box 209, Massena, NY 13662-0209

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EFFECTIVE DATE: October 1, 2010

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REVISION: 0

The generator-owner's protection and control scheme shall be designed to ensure that the generation remains in operation when the frequency and voltage of the utility system is within the limits specified by the required operating ranges. Upon request from the utility, the generator-owner shall provide documentation detailing compliance with the requirements set forth in this document.

The specific design of the protection, control and grounding schemes will depend on the size and characteristics of the generator-owner's generation, as well the generator-owner's load level, in addition to the characteristics of the particular portion of the utility's system where the generator-owner is interconnecting.

The generator-owner shall have, as a minimum, an automatic disconnect device(s) sized to meet all applicable local, state, and federal codes and operated by over and under voltage and over and under frequency protection. For three-phase installations, the over and under voltage function should be included for each phase and the over and under frequency protection on at least one phase. All phases of a generator or inverter interface shall disconnect for voltage or frequency trip conditions sensed by the protective devices. Voltage protection shall be wired phase to ground for single phase installations and for applications using wye grounded-wye grounded service transformers.

The settings below are listed for single-phase and three-phase applications using wye grounded- wye grounded service transformers or wye grounded-wye grounded isolation transformers. For applications using other transformer connections, a site-specific review will be conducted by the utility and the revised settings identified in Step 6 of the Application Process.

The requirements set forth in this document are intended to be consistent with those contained in IEEE Std 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems. The requirements in IEEE Std 1547 above and beyond those contained in this document shall be followed.

VOLTAGE RESPONSE

The required operating range for the generators shall be from 88% to 110% of nominal voltage magnitude. For excursions outside these limits the protective device shall automatically initiate a disconnect sequence from the utility system as detailed in the most current version of IEEE Std 1547. Clearing time is defined as the time the range is initially exceeded until the generator-owner's equipment ceases to energize the PCC and includes detection and intentional time delay.

FREQUENCY RESPONSE

The required operating range for the generators shall be from 59.3 Hz to 60.5 Hz. For generators greater than 30 kW the utility may request that the generator operate at frequency ranges below 59.3 Hz as defined in IEEE Std 1547. For excursions outside these limits the protective device shall automatically initiate a disconnect sequence from the utility system as detailed in the most current version of IEEE Std 1547. Clearing time is defined as the time the range is initially exceeded until the generator-owner's equipment ceases to energize the PCC and includes detection and intentional time delay.

If the generation facility is disconnected as a result of the operation of a protective device, the generator-owner's equipment shall remain disconnected until the utility's service voltage and frequency have recovered to acceptable voltage and frequency limits for a minimum of five (5) minutes. If the utility determines that a facility must receive permission to reconnect, then any automatic reclosing functions must be disabled and verified to be disabled during verification testing.

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2. Inverters

Direct current generation can only be installed in parallel with the utility's system using a synchronous inverter. The design shall be such as to disconnect this synchronous inverter upon a utility system interruption.

It is recommended that equipment be selected from the "Certified Equipment" list maintained by the PSC. Interconnected Distributed Generating systems utilizing equipment not listed in the "Certified Equipment" list must meet all functional requirements of IEEE Std 1547 and be protected by utility grade relays (as defined in these requirements) using settings approved by the utility and verified in the field. The field verification test must demonstrate that the equipment meets the voltage and frequency requirements detailed in this section.

Synchronization or re-synchronization of an inverter to the utility system shall not result in a voltage deviation that exceeds the requirements contained in the Power Quality section of this tariff. Only inverters designed to operate in parallel with the utility system shall be utilized for that purpose.

A line inverter can be used to isolate the customer from the utility system provided it can be demonstrated that the inverter isolates the customer from the utility system safely and reliably.

3. Minimum Protective Function Requirements

Protective system requirements for distributed generation facilities result from an assessment of many factors, including but not limited to:

- Type and size of the distributed generation facility
- Voltage level of the interconnection
- Location of the distributed generation facility on the circuit
- Distribution transformer
- Distribution system configuration
- Available fault current
- Load that can remain connected to the distributed generation facility under isolated conditions
- Amount of existing distributed generation on the local distribution system.

As a result, protection requirements can not be standardized according to any single criteria. Minimum protective function requirements shall be as detailed in the table below. ANSI C37.2, Electric Power System Device Function Numbers, are listed with each function.

Synchronous Generators	Induction Generators	Inverters
Over/Under Voltage (Function 27/59)	Over/Under Voltage (Function 27/59)	Over/Under Voltage (Function 27/59)
Over/Under Frequency (Function 81O/81U)	Over/Under Frequency (Function 81O/81U)	Over/Under Frequency (Function 81O/81U)
		Anti-Islanding Protection

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The need for additional protective functions shall be determined by the utility on a case-by-case basis. If the utility determines a need for additional functions, it shall notify the generator-owner in writing of the requirements. The notice shall include a description of the specific aspects of the utility system that necessitate the addition, and an explicit justification for the necessity of the enhanced capability. The utility shall specify and provide settings for those functions that the utility designates as being required to satisfy protection practices. Any protective equipment or setting specified by the utility shall not be changed or modified at any time by the generator-owner without written consent from the utility.

The generator-owner shall be responsible for ongoing compliance with all applicable local, state, and federal codes and standardized interconnection requirements as they pertain to the interconnection of the generating equipment. Protective devices shall utilize their own current transformers and potential transformers and not share electrical equipment associated with utility revenue metering.

A failure of the generator-owner's protective devices, including loss of control power, shall open the automatic disconnect device, thus disconnecting the generation from the utility system. A generator-owner's protection equipment shall utilize a non-volatile memory design such that a loss of internal or external control power, including batteries, will not cause a loss of interconnection protection functions or loss of protection set points.

All interface protection and control equipment shall operate as specified independent of the calendar date.

4. Metering

MED will require at least two revenue meters for the purpose of billing. The existing meter will be replaced with a bidirectional meter to determine the amount of energy delivered, plus the energy received by MED. A second meter will be installed to determine the amount of energy generated by the facility. If more than one inverter is used by the facility additional meters may be required to adequately measure energy generated. The cost associated with the installation of all meters required will be the responsibility of the customer.

OPERATING REQUIREMENTS

The generator-owner shall provide a 24-hour telephone contact. This contact will be used by the utility to arrange access for repairs, inspection or emergencies. The utility will make such arrangements (except for emergencies) during normal business hours.

Voltage and frequency trip set point adjustments shall be accessible to service personnel only.

Any changes to these settings must be reviewed and approved by the utility. The generator-owner shall not supply power to the utility during any outages of the utility system that serves the PCC. The generator-owner's generation may be operated during such outages only with an open tie to the utility. Islanding will not be permitted. The generator-owner shall not energize a de-energized utility circuit for any reason.

The disconnect switch specified may be opened by the utility at anytime for any of the following reasons:

- a. to eliminate conditions that constitute a potential hazard to utility personnel or the general public;

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- b. pre-emergency or emergency conditions on the utility system;
- c. a hazardous condition is revealed by a utility inspection;
- d. protective device tampering;
- e. parallel operation prior to utility approval to interconnect.

The disconnect switch may be opened by the utility for the following reasons, after notice to the responsible party has been delivered and a reasonable time to correct (consistent with the conditions) has elapsed:

- a. A generator-owner has failed to make available records of verification tests and maintenance of its protective devices;
- b. A generator-owner's system adversely impacts the operation of utility equipment or equipment belonging to other utility customers;
- c. A generator-owner's system is found to adversely affect the quality of service to adjoining customers.

The utility will provide a name and telephone number so that the generator-owner can obtain information about the utility lock-out. The generator-owner shall be allowed to disconnect from the utility without prior notice in order to self generate. Under certain conditions a utility may require direct transfer trip (DTT). The utility shall provide detailed evidence as to the need for DTT.

If a generator-owner proposes any modification to the system that has an impact on the interface at the PCC after it has been installed and a contract between the utility and the generator-owner has already been executed, then any such modifications must be reviewed and approved by the utility before the modifications are made.

DEDICATED TRANSFORMER

The utility reserves the right to require a power-producing facility to connect to the utility system through a dedicated transformer. The transformer shall either be provided by the connecting utility at the generator-owner's expense, purchased from the utility, or conform to the connecting utility's specifications. The transformer may be necessary to ensure conformance with utility safe work practices, to enhance service restoration operations or to prevent detrimental effects to other utility customers. The transformer that is part of the normal electrical service connection of a generator-owner's facility may meet this requirement if there are no other customers supplied from it. A dedicated transformer is not required if the installation is designed and coordinated with the utility to protect the utility system and its customers adequately from potential detrimental net effects caused by the operation of the generator.

If the utility determines a need for a dedicated transformer, it shall notify the generator-owner in writing of the requirements. The notice shall include a description of the specific aspects of the utility system that necessitate the addition, the conditions under which the dedicated transformer is expected to enhance safety or prevent detrimental effects, and the expected response of a normal, shared transformer installation to such conditions.

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DISCONNECT SWITCH

Generating equipment shall be capable of being isolated from the utility system by means of an external, manual, visible, gang-operated, load break disconnecting switch. The disconnect switch shall be installed, owned, and maintained by the customer-generator, and located between the generating equipment and its interconnection point with the utility system.

The disconnect switch must be rated for the voltage and current requirements of the installation.

The basic insulation level (BIL) of the disconnect switch shall be such that it will coordinate with that of the utility's equipment. Disconnect devices shall meet applicable UL, ANSI, and IEEE standards, and shall be installed to meet all applicable local, state, and federal codes.

The disconnect switch shall be clearly marked, "Generator Disconnect Switch," with permanent 3/8 inch or larger letters or larger.

The disconnect switch shall be located within 10 feet of the utility's external electric service meter. If such location is not possible, the customer-generator will propose, and the utility will approve, an alternate location. The location and nature of the disconnect switch shall be indicated in the immediate proximity of the electric service entrance. The disconnect switch shall be readily accessible for operation and locking by utility personnel in accordance with Operating Requirements section of this tariff. The disconnect switch must be lockable in the open position with a 3/8" shank utility padlock.

For installations above 600V or with a full load output of greater than 960A, a draw-out type circuit breaker with the provision for padlocking at the draw-out position can be considered a disconnect switch for the purposes of this requirement.

POWER QUALITY

The maximum harmonic limits for electrical equipment shall be in accordance with IEEE 519 to limit the maximum individual frequency voltage harmonic to 3% of the fundamental frequency and the voltage Total Harmonic Distortion (THD) to 5% on the utility side of the PCC. In addition, any voltage fluctuation resulting from the connection of the customer's energy producing equipment to the utility system must not exceed the limits defined by the maximum permissible voltage fluctuations border line of visibility curve identified in IEEE Std 519. This requirement is necessary to minimize the adverse voltage effect upon other customers on the utility system.

POWER FACTOR

If the average power factor, as measured at the PCC, is less than 0.9 (leading or lagging), the method of power factor correction necessitated by the installation of the generator will be negotiated with the utility as a commercial item.

Induction power generators may be provided VAR capacity from the utility system at the generator-owner's expense. The installation of VAR correction equipment by the generator-owner on the generator-owner's side of the PCC must be reviewed and approved by the utility prior to installation.

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ISLANDING

Generation interconnection systems must be designed and operated so that islanding is not sustained on utility distribution circuits. The requirements listed in this document are designed and intended to prevent islanding.

EQUIPMENT CERTIFICATION

In order for the equipment to be acceptable for interconnection to the utility system without additional protective devices, the interface equipment must be equipped with the minimum protective function requirements listed in the table under the Minimum Protective Function Requirements section of this tariff and be tested by a Nationally Recognized Testing Laboratory (NRTL) recognized by the United States Occupational Safety and Health Administration (OSHA) in compliance with Underwriter's Laboratories (UL) 1741, Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources latest revision.

For each interconnection application, documentation including the proposed equipment certification, stating compliance with UL 1741 by an NRTL, shall be provided by the applicant to the utility. Supporting information from an NRTL website or UL's website stating compliance is acceptable for documentation.

If an equipment manufacturer, vendor, or any other party desires, documentation indicating compliance as stated above may be submitted to the Department of Public Service Commission for listing under the "Certified Equipment" list on the Department's website (<http://www.dps.state.ny.us/distgen.htm>).

Certification information for equipment tested and certified to UL 1741 latest revision by a non-NRTL shall be provided by the manufacturer, or vendor to the contacts listed on the Public Service Commission's website (<http://www.dps.state.ny.us/distgen.htm>) for review before final approval and posting under the Public Service Commission's "Certified Equipment" list. Utilities are not responsible for reviewing and approving equipment tested and certified by a non-NRTL.

If an equipment is UL 1741 latest revision certified by an NRTL and compliance documentation is submitted to the utility, the utility shall accept such equipment for interconnection in New York State. All equipment certified to UL 1741 latest revision by an NRTL shall be deemed 'certified equipment' even if it does not appear on the Department of Public Service Commission's website.

Utility grade relays need not be certified per the requirements of this section.

VERIFICATION TESTING

All interface equipment must include a verification test procedure as part of the documentation presented to the utility. Except for the case of small single-phase inverters as discussed later, the verification test must establish that the protection settings meet the SIR requirements. The verification testing may be site-specific and is conducted periodically to assure continued acceptable performance.

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Upon initial parallel operation of a generating system, or any time interface hardware or software is changed, the verification test must be performed. A qualified individual must perform verification testing in accordance with the manufacturer's published test procedure. Qualified individuals include professional engineers, factory-trained and certified technicians, and licensed electricians with experience in testing protective equipment. The utility reserves the right to witness verification testing or require written certification that the testing was successfully performed.

Verification testing shall be performed at least once every four years. All verification tests prescribed by the manufacturer shall be performed. If wires must be removed to perform certain tests, each wire and each terminal must be clearly and permanently marked. The generator-owner shall maintain verification test reports for inspection by the utility.

Single-phase inverters and inverter systems shall be verified upon initial parallel operation and once every four years as follows: the generator-owner shall interrupt the utility source and verify that the equipment automatically disconnects and does not reconnect for at least five minutes after the utility source is reconnected. The owner shall maintain a log of these operations for inspection by the connecting utility. Any system that depends upon a battery for trip power shall be checked and logged at least annually for proper voltage. Once every four (4) years the battery must be either replaced or a discharge test performed.

INTERCONNECTION INVENTORY

To ensure applications are addressed in a timely manner and monitor the overall interconnection activities, utilities shall submit an SIR inventory of projects to the Public Service Commission by January 31 and July 31 of each year. At a minimum the following information shall be provided in the inventory:

1. Company
2. Applicant Name
3. System Type
4. System Capacity
5. Protective Equipment
6. Application Review Start and End date
7. Preliminary Review Start and End date
8. CESIR Start and End date
9. Verification Testing date
10. Final Letter of Acceptance date

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