

PSC NO: 214 ELECTRICITY
COMPANY: NIAGARA MOHAWK POWER CORPORATION
INITIAL EFFECTIVE DATE: APRIL 1, 2016

LEAF: 8
REVISION: 8
SUPERSEDING REVISION: 7

GENERAL INFORMATION

III. TERMINOLOGY DEFINITIONS AND ABBREVIATIONS

Induction (IND, ID) – An electrodeless lamp technology utilizing a microwave or radio frequency generator to induce an electromagnetic flux field to energize conventional fluorescent phosphors producing a white light.

Intra-Account Netting – The method of computing the appropriate billing amount for a customer within a bill account in a given bill period by off-setting the cumulative value of facilities or other billing components discovered to have been underbilled in that bill period against the cumulative value of facilities or other billing components discovered to have been overbilled in that bill period.

kilowatt (kW) – One thousand watts.

kilowatt hour (kWh) – One kilowatt for one hour.

Lamp (LP) – The component which, when energized, produces the light output and is typically comprised of a base, electrodes, filament or arc tube and glass envelope, and is also referred to as a bulb.

Lamp/Luminaire (LL) – The specific combination of a lamp or other light source and luminaire based upon their unique requirements.

Light Emitting Diode (LED or LE) – A solid-state or semiconductor device that creates optical radiation through electroluminescence which is transmitted in conjunction with phosphors and biased in a forward direction to produce a broadband, visual spectrum white light.

Light Source – Individual or an array of devices or light engines integrated within a luminaire which produces desired illumination levels other than traditional HID, IND or INC lamp technology.

Lighting District (LD) – A municipally defined geographic area, typically established for the purpose of tax assessment of specific lighting facilities to a distinct constituent group of users, residents or businesses.

Low Pressure Sodium (LPS, LS) - A HID lamp that produces a monochromatic amber-colored light.

Luminaire (LM) – The assembly incorporating multiple elements to support, energize and control the light source and the optical system comprised of the reflector and/or refractor to manage and direct the light output.

Mercury Vapor (MV) – A HID lamp that produces a blue-white light.

Metal Halide (MH) – A high intensity discharge (HID) lamp technology that produces a white light.

National Electrical Manufacturers Association (NEMA).

Overhead (OH) – A general reference to aerial circuitry/conductor or an aerial type supply service application.

Pedestrian (PED) – Reference to a luminaire or lighting assembly specifically sized or designed to provide appropriate lighting to areas predominately used for non-motorized vehicular traffic.

Photocontrol (PC, PEC) – Photoelectric-control is the control device which operates the on/off function of the energy source to the luminaire based upon specified settings of ambient sunlight as further defined in Normal Hours of Operation.

Pole (PL) – A wood structural support for the electric distribution system and for a luminaire, incorporating a bracket, which is typically sourced from an overhead circuit.

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GENERAL INFORMATION

V. TERMS AND CONDITIONS APPLICABLE TO SPECIFIC SERVICE CLASSIFICATIONS

The referenced terms and conditions below are applicable to service classifications containing the specific heading. Supplemental terms and conditions of the general description provided below may be stated within the specific service classification and are to be considered additional and inclusive to the full description of the referenced term or condition, which may be amended from time to time.

Rate

A. Volumetric Energy Consumption

- | | | |
|----|---|---------------|
| 2. | Billable Wattage
Total <u>initial system</u> operating wattage <u>at continuous full rated power</u> of an individual device or assembly comprised of specific nominal lamp or illuminating <u>light source component</u> wattages in addition to wattages of <u>other contiguous devices including but not limited to</u> ballasts, drivers, generators and controls. <u>Billable wattages for LED light sources will represent an apportioned ratio of in-service LED luminaire wattages and prospective LED luminaire wattages for respective lumen output ratings. The defined lumen ratings for the LED light sources are provided as nominal illumination output criteria. The Company, at its sole discretion, will use LED light sources of a consistent color temperature which are within a reasonable variance of the nominal lumen criteria until all manufacturers adopt industry criteria standards.</u> | SC-2, 3, 6 |
| 3. | Hours of Operation | SC-2, 3, 6 |
| 5. | Hours of Operation
Estimated yearly time of functional operation of a device or assembly, measured in hours which is required as a determinate in the calculation of unmetered energy consumption. | SC-1 |
| | Normal Hours of Operation
Estimated yearly functional operation of a device or assembly, measured in hours, maintaining a dusk-to-dawn service schedule, photo-electrically controlled to operate from approximately ½ hour after sunset until approximately ½ hour before sunrise, totaling approximately 4170 hours per year and 4183 hours per leap year. | SC-1, 2, 3, 6 |
| | Continuous Hours of Operation
Estimated yearly functional operation of a device or assembly, measured in hours, maintaining a constant or 24 hour per day service schedule, totaling approximately 8760 hours per year and 8784 hours per leap year. | SC-2, 3, 6 |
| | Non-standard Hours of Operation
Alternate hours of operation and/or duration will require the implementation of a metered service classification as provided within the Company's Electric Tariff. | SC-1, 2, 3, 6 |

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GENERAL INFORMATION

V. TERMS AND CONDITIONS APPLICABLE TO SPECIFIC SERVICE CLASSIFICATIONS

Provisions

B. Special Provisions

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|-----------|--|--------------------|
| 1. | Ancillary Equipment
Specific to the applicability of the service provided under the service classification, at the request of the customer, the Company shall take reasonable actions to procure and install the necessary ancillary equipment, including but not limited to shields, visors, louvers and protective devices, for the purpose of providing special control of light distribution or vandal prevention of the facilities in-service, provided all ancillary equipment costs and associated service charges are the responsibility of the customer. | SC-1, 2, 6 |
| 2. | Attachments to Company Facilities

As a condition of service hereunder, the Company has exclusive rights of ownership of the Company facilities either defined within this service classification or utilized to provide service herein and reserves the privilege and sole discretion to permit the use of such facilities for the support and physical attachment of other, non-company owned equipment under the terms and conditions of a separate agreement or license. The Company may, at its sole discretion, provide electric delivery service as applicable under another service classification in the Electric Tariff. The Company will have no responsibility for the attachments except as defined in the separate agreement or license. The attachment will not adversely impact the service as defined within this service classification. | SC-1,2, 6 |
| 3. | Customer Equipment Identification | SC-4 |
| 4. | Customer Equipment Identification | SC-3 |
| 5. | Customer Equipment Identification | SC- <u>2</u> , 6 |
| 6. | <u>Customer Equipment Identification</u> | <u>SC-2</u> |

As a condition of service hereunder, the customer is responsible for the installation of Company specified identification including but not limited to tagging to designate customer-ownership of equipment and unique location identification labeling incorporating a numbering sequence or other designation to assist in ownership and location verification. The customer is also required to provide identification in accordance with ANSI-NEMA Standards for Roadway and Area Lighting Equipment – Luminaire Field Identification, (ANSI-NEMA C136.15, latest revision), as applicable.

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GENERAL INFORMATION

V. TERMS AND CONDITIONS APPLICABLE TO SPECIFIC SERVICE CLASSIFICATIONS

B. Special Provisions (Continued)

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|-----------------|---------------------------------|------|
| 3 | Facility/Equipment Obsolescence | SC-1 |
| 7. | Facility/Equipment Obsolescence | SC-6 |
| 8 9. | Facility/Equipment Obsolescence | SC-2 |

Facilities or equipment may be designated obsolete by the Company due to their limited availability of new or comparable replacement units, unobtainable maintenance parts, exhibit excessive price increases, or whose functional technologies are no longer considered standard by the industry due to legislative or regulatory mandates, compliance with industry codes, standards and guidelines and efficiency determinates.

- | | | |
|------------------|-----------------------------|------|
| 4. | Facility Service Limitation | SC-1 |
| 8. | Facility Service Limitation | SC-6 |
| 9 10. | Facility Service Limitation | SC-2 |

As a condition of service hereunder, Company facility service is not available for; locations inaccessible by standard Company motorized equipment, limited access highways, bridges, tunnels and the access and egress ramps thereto, unless pre-existing or as authorized by the Company.

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SERVICE CLASSIFICATION NO. 2 (Continued)

RATE:

The charges presented below are applicable to all customers served by this service classification unless otherwise designated. The charge for service during each billing cycle shall be for facilities in service as of the first day of that billing cycle.

A. Volumetric Charges

1. Volumetric Energy Consumption

The cumulative energy consumed by the individual luminaires is determined by the aggregation of each luminaires' corresponding type and size of lamp or light source as identified below in Table 1, Lamp/Light Source Billable Wattages, multiplied by the prorated portion of the appropriate monthly hours of operation during the billing period as identified in Table 2, Hours of Operation, divided by 1,000 to yield kWh. Reference General Information, Section IV.

2. Billable Wattage

The billable wattages are presented in Table 1, below. Reference General Information, Section V.

Table 1 — Lamp/Light Source Billable Wattages

Lamp/Light Source Billable Wattages (Watts)

High Intensity Discharge Lamps (HID)

<u>Lamp Type</u>	<u>Lamp Size (Watts)</u>						
	<u>70</u>	<u>100</u>	<u>150</u>	<u>175</u>	<u>250</u>	<u>400</u>	<u>1000</u>
Mercury Vapor (MV)	-----	130	-----	211	-----	477	1095
High Pressure Sodium (HPS)	86	118	173	-----	304	470	1106
Metal Halide (MH)	-----	-----	-----	207	295	451	1078

Incandescent Lamps

<u>Lamp Type</u>	<u>Lamp Size (Lumens)</u>			
	<u>2500</u>	<u>4000</u>	<u>6000</u>	<u>10000</u>
Incandescent (INC)	202	327	448	690

Light Emitting Diode (LED)

<u>Light Source</u>	<u>Illumination Output (Lumens)</u>			
	<u>2700</u>	<u>5000</u>	<u>13000</u>	<u>25000</u>
	<u>(A)</u>	<u>(B)</u>	<u>(C)</u>	<u>(D)</u>
<u>LED</u>	30	60	140	275
<u>Comparable nominal HID lamps</u>	70-100	100-150	250	400

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SERVICE CLASSIFICATION NO. 2 (Continued)

4. Distribution Delivery Charge for all Load Zones, per kWh \$0.08575

5. Company Supplied Electricity Supply Service Charges, per kWh
 Reference General Information, Section IV.

B. Adjustment to Volumetric Charges

Reference General Information, Section IV.

C. Standard Facility Charges

The charges associated with the standard facility offerings presented below are applicable to all customers served by this service classification, when appropriate. The charge for facility service during each billing cycle shall be one-twelfth (1/12) of the applicable annual amounts set forth herein as of the first day of such billing cycle. The minimum facility charges for a lighting assembly at any installation location will consist of a lamp charge, a luminaire charge, or combination lamp/light source/luminaire charge and an applicable street light circuit charge.

1. Lamp Charge

The annual lamp charges per unit, without volumetric charges and adjustments, are presented below in Table 3.

The lamp charges are determined by lamp or light source type and size. For continuous operation, the annual lamp charge (per unit) as presented in Table 3-Lamp Charge is multiplied by a factor of two (2).

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SERVICE CLASSIFICATION NO. 2 (Continued)

Table 3 - Lamp Charge (Standard)

Lamp Type	Annual Lamp Charge, per unit (\$)					
	Lamp Size (Watts)					
	<u>70</u>	<u>100</u>	<u>150</u>	<u>175</u>	<u>250</u>	<u>400</u>
High Pressure Sodium (HPS)	7.99	7.99	7.99	-----	8.17	8.17
Metal Halide (MH)	-----	-----	-----	56.31	56.31	50.82

1. Luminaire Charge

The annual luminaire charges, per unit are presented below in Table 4. Luminaire charges are determined by luminaire type and lamp size (watts).

Table 4 - Luminaire Charge (Standard)

Luminaire Type	Annual Luminaire Charge, per unit (\$)					
	Lamp Size (Watts)					
	<u>70</u>	<u>100</u>	<u>150</u>	<u>175</u>	<u>250</u>	<u>400</u>
Aspen Grove	103.70	103.70	81.67	81.67	-----	-----
Central Park	-----	126.46	-----	117.25	-----	-----
Coach	74.25	74.25	57.41	57.41	-----	-----
Delaware Park	-----	-----	199.34	199.34	246.07	246.07
Delaware Park Pedestrian	166.64	169.49	-----	199.34	-----	-----
Edgewater	-----	131.61	137.40	137.40	-----	-----
Edison	85.26	85.26	67.63	-----	-----	-----
Floodlight	-----	-----	-----	-----	58.42	61.49
Roadway	53.65	53.65	54.81	54.81	63.01	63.01
Setback	-----	-----	-----	-----	110.53	104.35
Shoebox	60.52	64.10	49.53	-----	86.21	86.21
Traditional	49.85	49.85	39.43	39.43	-----	-----
Underpass	84.62	86.36	87.24	82.36	60.91	-----
Williamsville	99.20	99.20	119.09	119.09	-----	-----

Table 4.1 – Light Source/Luminaire Charge (Standard)

Light Source/Luminaire Type	Annual Light Source/Luminaire Charge, per unit (\$)			
	Light Source Size (Lumens)			
	(A)	(B)	(C)	(D)
<u>Roadway-LED</u>	<u>87.29</u>	<u>96.94</u>	<u>144.65</u>	<u>179.73</u>

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SERVICE CLASSIFICATION NO. 2 (Continued)

7. Permanent Discontinuance

Upon not less than 90 days' prior written notice to Company, customer may request that any facility be discontinued permanently. Company shall have the right to remove or retire-in-place the designated facility(s). The customer is required to compensate the Company for the facility(s) to be permanently discontinued. The compensation is specific to the facility(s) to be permanently discontinued and is comprised of three individual financial components; asset valuation, removal cost and system reconfiguration costs.

- a. Asset valuation shall be determined based upon the ~~facility~~ Facility(s) undepreciated book value, less any facility(s) salvage value, ~~plus the cost of facility(s) removal.~~ The Company will determine the Facility(s) undepreciated book value based upon the Company's plant records.
- b. Removal cost shall include all, but not be limited to, labor, material, transportation, administrative and general expenses, site restoration and other charges and adders applicable thereto. In the event permanently discontinued company facilities are replaced with other company facilities at the same time, the removal cost may be waived. Company owned HID facilities that are changed to Company owned LED Facilities will not require the customer to pay removal costs.
- c. System reconfiguration costs, if necessary, shall include, but not be limited to, all labor, material, transportation, administrative and general expenses and other charges and adders for the Company to perform any electric system reconfigurations required to maintain service to unaffected street light locations.

G. Increase in Rates and Charges

Reference General Information, Section IV.

DETERMINATION OF BILLING:

Reference General Information, Section IV.

A. Minimum Charge

1. Unexpired Term

The application of charges as defined under RATE for the duration of the unexpired term, utilizing the billing quantities effective at the time of termination notice, plus any balance due for service rendered. Reference General Information, Section IV.

2. Termination

The application of Permanent Discontinuance as defined under RATE, Other Charges and Credits, utilizing the billing quantities effective at the time of termination notice. Reference General Information, Section IV.

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SERVICE CLASSIFICATION NO. 2 (Continued)

B. Special Provisions (Continued)

3. Authorization of Additional Facilities

Additional facilities considered standard at the time of the customer's request will be allowed at locations designated by the customer provided the Company, in its sole discretion, can reasonably supply the requested electric service and facilitate the safe operation and maintenance of the requested facilities. The Company may require the customer to make its request on appropriate customer letterhead, including;

- a. A revised Schedule "SL2",
- b. An approved form resolution, as applicable,
- c. A signature by a duly authorized representative of the customer.

Upon completion of field work, the Schedule "SL2" will be appended to the customer's Form "SL2" Contract, Application for Service and applicable billing changes commenced.

4. Change of Existing Company Facilities

The change or conversion of existing facilities for any purpose as requested by the customer will be performed by the Company in compliance with the terms and conditions of "Permanent Discontinuance" for the facilities to be removed and "Authorization of Additional Facilities" for the new facilities installed.

5. Change of Existing Company Luminaires to LED Luminaire Facilities

The change or conversion of existing Facilities to LED luminaires requested by the customer will be performed by the Company in compliance with the provisions below, the terms and conditions of "Permanent Discontinuance" for the Facilities to be removed; and "Authorization of Additional Facilities" for the new LED Facilities to be installed.

5.1 The Company proposes to install/change, if requested by the respective municipality, the approximate quantity of LED Roadway luminaires for the annual periods as indicated below.

LED Roadway Luminaires Installations

<u>Municipality</u>	<u>Annual Periods</u>		
	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
<u>City of Albany</u>	<u>1714</u>	<u>3428</u>	<u>3428</u>
<u>City of Buffalo</u>	<u>5003</u>	<u>10007</u>	<u>10007</u>
<u>City of Syracuse</u>	<u>3016</u>	<u>6032</u>	<u>6032</u>
<u>Other Municipality</u>	<u>1500</u>	<u>2000</u>	<u>2000</u>
<u>Annual Total</u>	<u>11233</u>	<u>21467</u>	<u>21467</u>

Year 1 begins when installations commence following effective date of this provision.

To the extent the total LED Roadway luminaires to be installed for the designated municipalities in any of the indicated Annual Periods is less than the Annual Total in the given year, the difference between the Annual Total and the total units to be installed in the three municipalities in that year will be made available for installation in to other municipalities on a first come, first served basis; subject to compliance with all required provisions and not exceeding the Annual Total. In the event that multiple municipalities request installation of LED Roadway luminaires, any single municipality must commit to a minimum of no less than 15% of the Company Owned Roadway luminaires installed in any annual period.

5.2 The customer must agree in writing to compensate the Company as defined in the Permanent Discontinuance provision. The customer shall have the option to:

- (a) make a one-time payment, or
- (b) make monthly levelized payments with the interest rate set at the Company's authorized pretax weighted average cost of capital in effect at the time of execution of the agreement over a term not to exceed ten (10) years.

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SERVICE CLASSIFICATION NO. 2 (Continued)

B. Special Provisions (Continued)

6. Customer Equipment Identification

Reference General Information, Section V.

7. Customer Ownership of Facilities

At the option of the Company, customer may elect to own, operate and maintain the poles/standards and associated foundations, and separately the conduits pursuant to Company's specifications. The Company will not service or maintain customer owned facilities under this service classification. However, conduit and all other related underground circuit infrastructure (excluding cable) that are installed by the customer at their cost for use by the Company at no cost, so as to provide specified service, will be considered property of the Company for the purpose of minor maintenance and repaired at Company expense. Customer installed facilities requiring relocation or replacement to continue reliable service in the opinion of the Company will be the responsibility of the customer.

8. Customer Responsibilities

Reference General Information, Section V.

9. Facility/Equipment Obsolescence

Reference General Information, Section V.

10. Facility Service Limitation

Reference General Information, Section V.

11. Schedule "SL2" Revision

Whenever during any month facilities are installed, removed or otherwise changed from the original, pursuant to select provisions, Company may complete, execute and supply to customer a revised Schedule "SL2." The Company's failure to provide such a revised Schedule "SL2" shall not relieve the customer of its obligation to pay for any lighting services furnished to the customer by the Company. The Company may require customer to submit all such work requests on appropriate customer letterhead along with an approved form resolution, if applicable. The Company may further require that the customer's revised Schedule "SL2" be executed by a duly authorized representative of the customer and returned to Company. The monthly bill to customer shall reflect such installations, removals or replacements.

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SERVICE CLASSIFICATION NO. 2 (Continued)

LM Delaware Park 175			LL Roadway LED A			CIRCUITS		
LM Delaware Park 250			LL Roadway LED B			CR UG Cable & Cndt		
LM Delaware Park 400			LL Roadway LED C			CR UG Cable Only		
LM Del Park Ped 70			LL Roadway LED D			CR UG DB Cable		
LM Del Park Ped 100			POLES/STANDARDS			CR UG Res DB Cable		
LM Del Park Ped 175			SD Alum >16' AB			CR EF Cbl & Cndt /ft		
LM Edgewater 100			SD Alum >16' AB HD			CR EF Cable Only /ft		
LM Edgewater 150			SD Alum >16' AB SQ			CR EF DB Cable /ft		
LM Edgewater 175			SD Conc Metropol DE					
LM Edison 70			SD Fbgl >16' AB			CONVENIENCE OUTLETS		
LM Edison 100			SD Alum Villager AB			FO New Standard		
LM Edison 150			SD Fbgl =<16' AB PT			FO Existing Standard		
LM Flood 250			SD Fbgl =<16' DE PT			FO Wood Pole		
LM Flood 400			SD Alum Niagara AB					
LM Roadway 70			SD Alum Armory Sq AB			OTHER CHARGES / CREDITS		
LM Roadway 100			SD Fbgl President AB			Lighting Svc Charge		
LM Roadway 150			SD Fbgl President DE					
LM Williamsville 150			SD Mounting Adaptor					
LM Williamsville 175								
CLOSED CHARGES			CLOSED CHARGES			CLOSED CHARGES		
LAMPS/LUMINAIRES			LUMINAIRES CONTINUED			ARMS/BRACKETS		
LL H-Mast HS 1KW 6LP			LM Underpass 250			AR Steel>16' Roadway		
			LM Washington 100			AR Little Falls Cane		
LAMPS						BK Steel Roadway		
LP HS 1000								
LP MH 1000								
						FOUNDATIONS		
LUMINAIRES			POLES/STANDARDS			FD Concrete >16' Dbl		
						FD Concrete >16' XHD		
LM Franklin Sq 100			SD Alum =<16' AB SQ			FD Concrete Traff PL		
LM Franklin Sq 150			SD Alum Lil Falls AB					
LM Franklin Sq 175			SD Alum Winter Pk AB					
LM Globe 150								
LM Globe 175								
LM Little Fall PT 70								
LM Little Fall TD 70								
LM Roadway 1000								
LM Shoebox 1000								