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September 25, 2015

Via Email
Original via Mail

British Columbia Utilities Commission
6th Floor, 900 Howe Street
Vancouver, BC
V6Z 2N3

Attention: Ms. Erica M. Hamilton, Commission Secretary

Dear Ms. Hamilton:

Re: FortisBC Inc. (FBC)

Application for Amendment to Electric Tariff Rate Schedule 50 Lighting – All Areas

FBC hereby attaches its application to the British Columbia Utilities Commission, pursuant to sections 59-61 of the *Utilities Commission Act*, for approval of modifications to Electric Tariff Rate Schedule 50 to accommodate the billing of Light Emitting Diode (LED) street lights.

If further information is required, please contact Sarah Wagner at (250) 469-6081.

Sincerely,

FORTISBC INC.

Original signed by: Ilva Bevacqua

For: Diane Roy

Attachments



FORTISBC INC.

**Application for Amendment to Electric
Tariff Rate Schedule 50
Lighting – All Areas**

September 25, 2015

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1. INTRODUCTION

Lighting technology has advanced rapidly over the last few years. One of the more promising innovations to become commercialized is Light Emitting Diode (LED) lighting, across a wide spectrum of end-uses, including for street lighting purposes. LED streetlights use about half the energy per unit of light output as compared to high pressure sodium (HPS) fixtures.

The “white” light spectrum emitted by LED lighting, compared to the yellowish light provided by HPS, is considered preferable to the human eye. The LED lighting reportedly aids in detecting movement and distinguishing vehicular colour. These attributes contribute to traffic safety for both motorists and pedestrians.

Perhaps an even greater advantage for customers is the much longer service life of the luminaire - potentially up to 100,000 hours (approximately twenty years). Currently HPS lights have average life span of 24,000 hours (approximately five years) between lamp changes. Particularly in locations where travel time is a significant factor in maintenance costs, the reduced maintenance intervals are an important consideration.

LED lighting can provide even more savings when coupled with dimming technology. This technology allows street lighting fixtures to operate at full brightness during the hours when traffic is the highest and then at lower lumen output in off-peak hours. Depending upon the dimming scheme implemented, the energy use can potentially be reduced by a further 25 percent compared to undimmed lights. The dimming controls include asset management tools that report streetlight outages, allowing for the dispatch of repair work orders without the need for a passerby to notify the utility of the outage. Industry reports indicate that at any one time, 5 to 10 percent of streetlights are burnt out, reducing the safety and security of drivers and pedestrians.

FortisBC Inc.’s (FBC or the Company) municipal customers have expressed a desire to implement LED street lighting, and two FBC customers have already implemented LED street lighting with dimming controls. One of the primary objectives stated by customers interested in implementing LED lighting is energy efficiency and the associated cost savings from reduced consumption. The Company wishes to respond in a positive manner to customer requests for this service and hereby applies to the BCUC, pursuant to sections 59-61 of the *Utilities Commission Act* (UCA), for approval of modifications to Electric Tariff Rate Schedule 50 (RS50) to accommodate the billing of LED street lights. A draft of the order requested is attached as Appendix A to this Application.

2. BACKGROUND

In 1998 FBC (then West Kootenay Power Ltd.) applied to amend its Rate Schedule 50 Lighting – All Areas (RS50) after discussions with its largest lighting customer at the time, the City of Kelowna. FBC's proposal was to significantly restructure the cost recovery for lighting supply and broaden options for all customers.

FBC proposed to supply three types of lighting service:

- **Type 1** – For a Customer-owned street lighting fixture or lighting system where the Customer owns and maintains at its own expense the light standards if any, lighting fixtures and all auxiliary equipment.
- **Type II** – Customer-owned street lighting fixtures installed on existing Company poles at the Customer's expense with all maintenance performed by the Company at costs recovered on an actual basis in accordance with the Company's Code of Conduct and Transfer Pricing Guidelines.
- **Type III** – For Company-owned street lighting fixtures on existing Company-owned poles where the Company performs all maintenance according to a fixed average monthly fee included in the monthly rate.

For Type I and Type II Lighting all costs of supply, including system maintenance, system capital recovery, commodity costs and general and administrative costs were to be recovered by a fixed monthly energy rate. The monthly rate for different light types was then determined by multiplying the constant energy charge by the monthly energy usage of the different lighting types.

Type III rates were determined using the same constant energy costs multiplied by the monthly kWh consumption but with additional charges to recover, on a postage stamp basis, the added costs for the Company to maintain the lights and to recover its capital investment in the lights.

A written hearing process resulted in Commission Order G-42-99 and the accompanying Decision in which the Commission approved the application with the restructuring to become effective on June 1, 1999. Since that time the Lighting rates have been subject to annual rate increases with no changes to the structure of the rates. As a result of the Company's 2009 Cost of Service Analysis and Rate Design Application (2009 COSA and RDA), the lighting rates have been subject to rebalancing, however this has not had any effect on the Lighting rate structure – the charges for each different size of Type I or Type II light are still determined by the monthly energy use times a constant per kWh charge. That constant rate is 18.8 cents per kWh as at August 1, 2015. The rate varies very slightly by light due to the impact of rounding rate increases over the last 16 years (see Appendix B).

3. ELECTRIC TARIFF MODIFICATIONS

RS50 does not currently provide for the option of either LED street lighting or dimmable lighting. Many of FBC's municipal customers have requested such a tariff and two FBC customers have already implemented LED street lighting with dimming controls. One of the primary objectives stated by customers interested in implementing LED lighting is energy efficiency and the associated cost savings from reduced consumption. The provincial government (BC Shared Services Procurement department) has supported LED streetlight conversions by providing: (i) lighting design tools (ii) short-listing qualified vendors & products (iii) obtaining beneficial pricing through an RFP process and (iv) access to the BC Hydro and FBC DSM incentive calculator.

The Company wishes to respond in a positive manner to customer requests for this service. Since the current tariff relies upon kWh based billing charges for street light billing, the required changes in order to accommodate LED and dimmable technologies are minimal.

3.1 PROPOSED CHANGES

FBC currently offers lighting service for fluorescent, mercury vapour and sodium vapour fixtures; however, only three sizes of sodium vapour are now available for new or replacement fixtures. The existing fixtures are provided as an unmetered service at fixed monthly rates. There is currently no option within RS50 to allow FBC to bill for LED lighting or dimmable lighting.

FBC proposes to offer Type I (Customer owned and Customer maintained) and Type II (Customer owned and Company maintained) lighting service compatible with LED lamps that will also accommodate any dimming schedule a Customer may wish to employ. FBC intends to assess the demand, and if necessary develop a standard, for Type III (Company owned) LED service and, if required, address this option during its next Cost of Service and Rate Design Application.

In the case of Type II lighting, in recognition of the diversity and relative newness of the technology, FBC's proposed changes to RS50 will include the requirement that customers choosing Type II Lighting service must supply the Company with a stock of replacement fixtures and ancillary devices, at no cost to the Company.

FBC proposes to offer LED and dimming service on a cost per kWh basis, using the same unit rate that is inherent in the current monthly flat rates. See Appendix B for the derivation of the per kWh charge. Where dimming is to be used, customers will submit to the Company a schedule showing the wattage of each fixture and the annual hours of operation at each input level for dimming fixtures. This will allow the Company to calculate the total annual kWh consumption, which will then be divided by 12 and billed monthly. Customers will be required to provide the Company access to its dimming equipment on request and to submit any changes to the schedule as they occur. Customers will be required to submit a letter confirming their

- 1 schedules on June 1 of each year. Blacklined and Clean versions of updated RS50 are provided
- 2 in Appendices C and D, respectively.

4. COMPARISON WITH BC HYDRO

In April of 2011 British Columbia Hydro and Power Authority (BC Hydro) applied to the Commission for permission to amend their lighting schedules to, among other things, enable the billing of dimmable lighting systems. On May 5 2011, by Order G-79-11, the Commission set out an expedited hearing process. The application was subsequently approved as filed on June 2, 2011.

There are no substantive differences between BC Hydro's treatment of dimmable lighting fixtures and those proposed by FBC in this application. BC Hydro's Electric Tariff specifies a rate per watt while FBC proposes to specify its rate on a per kWh basis. Since both tariffs require the customer to provide the wattage of the fixture and the hours of operation, the approaches are the same.

5. PUBLIC CONSULTATION

FBC met with customers interested in implementing LED lighting and with customers that have already implemented LED lighting to present its proposed updates to RS50. FBC received positive feedback regarding the proposed changes and has included (Appendix E) letters from those interested customers providing their support for updating RS 50 to accommodate LED lighting.

6. PROCESS

As described in Section 5, FBC customers most interested in LED lighting are supportive of the Company's proposed changes to RS 50; therefore FBC respectfully submits that no further process to review the application is necessary. FBC's proposed updates to RS50 provide customers with an option to pursue energy efficiency as envisioned in the Clean Energy Act and the updates to RS50 do not result in any cost shifting to other rate classes.

In addition, the Commission approved a similar update to BC Hydro's Lighting Tariff without regulatory process.

Given all of the above, FBC respectfully requests an order from the Commission approving the Application. In the event that the Commission requires further process to review the Application, the Company suggests that a written process with one round of information requests is sufficient.

SIXTH FLOOR, 900 HOWE STREET, BOX 250
VANCOUVER, BC V6Z 2N3 CANADA
web site: <http://www.bcuc.com>



**BRITISH COLUMBIA
UTILITIES COMMISSION**

**ORDER
NUMBER**

TELEPHONE: (604) 660-4700
BC TOLL FREE: 1-800-663-1385
FACSIMILE: (604) 660-1102

DRAFT ORDER

IN THE MATTER OF
the Utilities Commission Act, R.S.B.C. 1996, Chapter 473

and

An Application by FortisBC Inc.
For Amendment to Electric Tariff
Rate Schedule 50 Lighting – All Areas

BEFORE:

(Date)

WHEREAS:

- A. On September 25, 2015, FortisBC Inc. (FBC or the Company) filed an application for approval to amend Electric Tariff Rate Schedule 50 Lighting – All Areas (RS 50) (the Application) to accommodate the billing of Light Emitting Diode (LED) lighting;
- B. The amendments to RS50 include offering Type I (Customer owned and maintained) and Type II (Customer owned and Company maintained) lighting service on a per kWh basis and with an optional dimming schedule for LED lighting;
- C. The Commission has reviewed the Application and concludes that the requested changes as outlined in the Application should be approved.

NOW THEREFORE pursuant to Sections 59-61 of the Utilities Commission Act, the Commission orders as follows:

- 1. The proposed amendments to Rate Schedule 50 are approved as filed.

DATED at the City of Vancouver, In the Province of British Columbia, this day of **<MONTH>**, 2015.

BY ORDER

Appendix B

COST PER KWh DERIVATION

Table B: Cost per KW.h for Type I and Type II Lighting

Type of Light	Watts	Monthly Use (kW.h)	Rate for Customer-owned Types I and II (\$ per Month)	Cents per kW.h
Fluorescent	383	140	25.92	18.5
Mercury Vapour	125	55	10.39	18.9
	175	78	14.67	18.8
	250	107	20.14	18.8
	400	166	31.24	18.8
Sodium Vapour	70	33	6.30	19.1
	100	47	8.84	18.8
	150	70	13.14	18.8
	200	91	17.13	18.8
	250	111	20.93	18.9
	400	173	32.57	18.8
AVERAGE				18.8

Appendix C

RATE SCHEDULE 50 (BLACKLINED)

SCHEDULE 50 - LIGHTING - ALL AREAS

APPLICABLE: To lighting applications where the Customer will contract for service for a term of one year. The Company will supply service for lighting from dusk to dawn daily.

All lighting equipment installed on and after the effective date of this Schedule will be Company approved and conform to all relevant Company design and installation standards and requirements, and be suitable to accept electrical service at the Company's available secondary voltage. Other requirements may be supplied under special contract.

This Schedule is not available for equipment other than Company approved lighting fixtures.

TYPES OF SERVICE:1. Customer-Owned and Customer-Maintained

Type I - For a Customer-owned street lighting fixture or lighting system where the Customer owns and maintains at its own expense the light standards if any, lighting fixtures and all auxiliary equipment.

Electricity at 120/240 volts single phase is supplied by the Company at a single point of delivery for each separate Customer system. Multiple light systems shall be provided service at a single point of delivery wherever practical. The Customer shall supply transformers for other than 120/240 volt single phase supply.

Type I shall apply only if the Customer system can be operated and maintained, beyond the point of supply of electricity, independently of the Company's system. The installed cost of devices necessary for independent operation shall be paid by the Customer. Where Customer owned lighting fixtures are on Company owned poles maintenance work shall only be performed by parties qualified to do the work, and authorised by the Company. Type One service may be refused for safety reasons.

2. Customer-Owned and Company-Maintained

Type II - Customer-owned street lighting fixtures installed on existing Company poles at the Customer's expense with all maintenance to be performed by the Company at costs described below.

Issued December 20, 2010

FORTISBC INC.

Accepted for filing _____

BRITISH COLUMBIA UTILITIES COMMISSION

By: Dennis Swanson
Director, Regulatory AffairsBy: _____
Commission SecretaryEFFECTIVE (applicable to consumption on and after) January 1, 2011 G-156-10, G-184-10 & G-195-10

TYPES OF SERVICE: (Cont'd)

Type III - For Company-owned street lighting fixtures on existing Company-owned poles where the Company performs all maintenance. Facilities provided by the Company, including fixtures, lamp, control relay, support bracket, and conductor and energy for operation thereof are owned by the Company.

CONDITIONS: Type II lighting fixtures of design and specifications approved by the Company for installation on Company-owned poles will be installed by the Company at the Customer's expense. There will be no charge to the Customer for the use of existing Company-owned poles as standards for mounting of fixtures other than as provided for in this Section.

The Company will provide to the Customer on request, lighting fixtures and standards, where required, of Company approved design and specifications at its cost plus overheads and handling costs as described in the Cost Recovery section below. For Type III fixtures the Company will provide one span of duplex of not more than 30 metres.

Extensions of service will be provided under the terms of the Company's Extension Policy.

At the Customer's request, the location of a light may be changed provided the Customer pays for the cost of removal and reinstallation, including cost of extension of service if applicable, with costs recovered as described below.

Equipment other than lighting fixtures is not permitted on Company-owned poles except with the Company's written consent.

By: Dennis Swanson By: _____
Director, Regulatory Affairs Commission Secretary

EFFECTIVE (applicable to consumption on and after) January 1, 2011 G-156-10, G-184-10 & G-195-10

RATE SCHEDULES

Electric Tariff
B.C.U.C. No. 2

Second Revision of Sheet 20

Deleted: First

SCHEDULE 50 - LIGHTING - ALL AREAS (Cont'd)

TERMS AND
CONDITIONS:

Dimmable Lighting

Dimmable service is only available for Type I and Type II lighting service where the Customer has five or more fixtures. For Type II service the Customer will provide to the Company an adequate supply of replacement parts at no cost to the Company.

For each dimmable fixture, the Customer will provide the Company with a schedule showing the rated wattage of the lamp and auxiliary devices together with a schedule showing the wattage consumed each hour and the resultant annual kW.h consumption. The Company will bill one-twelfth of the annual consumption each month. The Customer will provide timely notification of any changes of operation, number and/or wattage of fixtures and will confirm this schedule for all of the Customer's dimmable fixtures on June 1 of each year. The Customer will provide access to the dimmable fixtures upon reasonable notice by the Company to the Customer.

N

Maintenance of Type III Lights

Maintenance of Type III lighting fixtures shall be performed by the Company, the cost of which is provided for in the "Monthly Rate" of this Schedule. Such work will be undertaken by the Company during regular working hours and the Company will be allowed ten working days subsequent to notification by the Customer for performance of such maintenance. Cleaning of the glassware will be carried out only when the lamp is replaced.

The Customer shall be responsible for any wilful damage to the Company's equipment.

Maintenance of Type II Lights

The Customer will pay maintenance and capital costs, including the cost of installation, maintenance of underground supply, and relocation, on an as spent basis. Customers will inform the Company in writing of the location of any lighting fixture requiring maintenance and the time in which the maintenance must be performed. The Company will bill the customer for all costs incurred including the following overheads:

Moved down [1]: - - Cost
Recovery¶
- - Material Loading¶

Issued _____ Accepted for filing _____
FORTISBC INC. BRITISH COLUMBIA UTILITIES COMMISSION

By: Diane Roy By: _____
Director, Regulatory Services Commission Secretary

Deleted: Dennis

Deleted: Swanson

Deleted: Affairs

EFFECTIVE (applicable to consumption on and after) _____

RATE SCHEDULES

Electric Tariff
B.C.U.C. No. 2

Ninth Revision of Sheet 21

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SCHEDULE 50 - LIGHTING - ALL AREAS (Cont'd)

Cost Recovery

Moved (insertion) [1]

Labour Loading

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On labour costs excluding overtime 72.5% of labour rate

Material Loading

Inventory – Material Handling 7% of cost

Loading rates may be adjusted from time to time as required to ensure appropriate recovery of costs.

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MONTHLY RATE FOR EACH TYPE OF SERVICE:

Type of Light	Watts	Rate (\$ per month)				Company-Owned Type III
		Monthly Use (kW.h)	Nominal Lumens	Customer-Owned Type I Type II		
Fluorescent	* 383	140	21,800	25.92		
Mercury Vapour	* 125	55	5,000	10.39	10.39	22.97
	* 175	78	7,000	14.67	14.67	27.32
	* 250	107	10,000	20.14	20.14	32.79
	* 400	166	21,000	31.24	31.24	43.88
Sodium Vapour	70	33	6,000	6.30	6.30	18.86
	*100	47	9,000	8.84	8.84	21.47
	*150	70	14,000	13.14	13.14	25.81
	200	91	20,000	17.13	17.13	29.77
	250	111	23,000	20.93	20.93	33.51
	*400	173	45,000	32.57	32.57	45.23

For Type I and Type II, Light Emitting Diode (LED) lighting service will be supplied at a monthly rate of 0.1880 per kWh as determined according to the Terms and Conditions.

N

* No longer available at new locations or as replacement fixtures where existing fixtures are being replaced except at the sole discretion of the Company.

OVERDUE

ACCOUNTS: A late payment charge of 1 1/2% (compounded monthly 19.56% per annum) will be assessed each month on all outstanding balances not paid by the due date.

Issued _____ Accepted for filing _____
FORTISBC INC. BRITISH COLUMBIA UTILITIES COMMISSION

By: Diane Roy _____ By: _____
Director, Regulatory Services Commission Secretary

EFFECTIVE (applicable to consumption on and after) _____

Appendix D

RATE SCHEDULE 50 (CLEAN)

SCHEDULE 50 - LIGHTING - ALL AREAS

APPLICABLE: To lighting applications where the Customer will contract for service for a term of one year. The Company will supply service for lighting from dusk to dawn daily.

All lighting equipment installed on and after the effective date of this Schedule will be Company approved and conform to all relevant Company design and installation standards and requirements, and be suitable to accept electrical service at the Company's available secondary voltage. Other requirements may be supplied under special contract.

This Schedule is not available for equipment other than Company approved lighting fixtures.

TYPES OF SERVICE:1. Customer-Owned and Customer-Maintained

Type I - For a Customer-owned street lighting fixture or lighting system where the Customer owns and maintains at its own expense the light standards if any, lighting fixtures and all auxiliary equipment.

Electricity at 120/240 volts single phase is supplied by the Company at a single point of delivery for each separate Customer system. Multiple light systems shall be provided service at a single point of delivery wherever practical. The Customer shall supply transformers for other than 120/240 volt single phase supply.

Type I shall apply only if the Customer system can be operated and maintained, beyond the point of supply of electricity, independently of the Company's system. The installed cost of devices necessary for independent operation shall be paid by the Customer. Where Customer owned lighting fixtures are on Company owned poles maintenance work shall only be performed by parties qualified to do the work, and authorised by the Company. Type One service may be refused for safety reasons.

2. Customer-Owned and Company-Maintained

Type II - Customer-owned street lighting fixtures installed on existing Company poles at the Customer's expense with all maintenance to be performed by the Company at costs described below.

Issued December 20, 2010
FORTISBC INC.

Accepted for filing _____
BRITISH COLUMBIA UTILITIES COMMISSION

By: Dennis Swanson
Director, Regulatory Affairs

By: _____
Commission Secretary

EFFECTIVE (applicable to consumption on and after) January 1, 2011 G-156-10, G-184-10 & G-195-10

SCHEDULE 50 - LIGHTING - ALL AREAS (Cont'd)TYPES OF SERVICE: (Cont'd)3. Company-Owned, Company-Installed and Maintained

Type III - For Company-owned street lighting fixtures on existing Company-owned poles where the Company performs all maintenance. Facilities provided by the Company, including fixtures, lamp, control relay, support bracket, and conductor and energy for operation thereof are owned by the Company.

TERMS AND Installation

CONDITIONS: Type II lighting fixtures of design and specifications approved by the Company for installation on Company-owned poles will be installed by the Company at the Customer's expense. There will be no charge to the Customer for the use of existing Company-owned poles as standards for mounting of fixtures other than as provided for in this Section.

The Company will provide to the Customer on request, lighting fixtures and standards, where required, of Company approved design and specifications at its cost plus overheads and handling costs as described in the Cost Recovery section below. For Type III fixtures the Company will provide one span of duplex of not more than 30 metres.

Extension of Service

Extensions of service will be provided under the terms of the Company's Extension Policy.

Relocation

At the Customer's request, the location of a light may be changed provided the Customer pays for the cost of removal and reinstallation, including cost of extension of service if applicable, with costs recovered as described below.

Other Equipment

Equipment other than lighting fixtures is not permitted on Company-owned poles except with the Company's written consent.

Issued December 20, 2010
FORTISBC INC.

Accepted for filing _____
BRITISH COLUMBIA UTILITIES COMMISSION

By: Dennis Swanson
Director, Regulatory Affairs

By: _____
Commission Secretary

EFFECTIVE (applicable to consumption on and after) January 1, 2011 G-156-10, G-184-10 & G-195-10

SCHEDULE 50 - LIGHTING - ALL AREAS (Cont'd)

TERMS AND

CONDITIONS:

Dimmable Lighting

Dimmable service is only available for Type I and Type II lighting service where the Customer has five or more fixtures. For Type II service the Customer will provide to the Company an adequate supply of replacement parts at no cost to the Company.

For each dimmable fixture, the Customer will provide the Company with a schedule showing the rated wattage of the lamp and auxiliary devices together with a schedule showing the wattage consumed each hour and the resultant annual kW.h consumption. The Company will bill one-twelfth of the annual consumption each month. The Customer will provide timely notification of any changes of operation, number and/or wattage of fixtures and will confirm this schedule for all of the Customer's dimmable fixtures on June 1 of each year. The Customer will provide access to the dimmable fixtures upon reasonable notice by the Company to the Customer.

Maintenance of Type III Lights

Maintenance of Type III lighting fixtures shall be performed by the Company, the cost of which is provided for in the "Monthly Rate" of this Schedule. Such work will be undertaken by the Company during regular working hours and the Company will be allowed ten working days subsequent to notification by the Customer for performance of such maintenance. Cleaning of the glassware will be carried out only when the lamp is replaced.

The Customer shall be responsible for any wilful damage to the Company's equipment.

Maintenance of Type II Lights

The Customer will pay maintenance and capital costs, including the cost of installation, maintenance of underground supply, and relocation, on an as spent basis. Customers will inform the Company in writing of the location of any lighting fixture requiring maintenance and the time in which the maintenance must be performed. The Company will bill the customer for all costs incurred including the following overheads:

Issued
FORTISBC INC.

Accepted for filing
BRITISH COLUMBIA UTILITIES COMMISSION

By: Diane Roy
Director, Regulatory Services

By: _____
Commission Secretary

EFFECTIVE (applicable to consumption on and after) _____

SCHEDULE 50 - LIGHTING - ALL AREAS (Cont'd)Cost RecoveryLabour Loading

On labour costs excluding overtime 72.5% of labour rate

Material Loading

Inventory – Material Handling 7% of cost

Loading rates may be adjusted from time to time as required to ensure appropriate recovery of costs.

MONTHLY RATE FOR EACH
TYPE OF SERVICE:

<u>Type of Light</u>	<u>Watts</u>	<u>Rate (\$ per month)</u>		<u>Customer-Owned</u>		<u>Company-Owned</u>
		<u>Monthly Use (kW.h)</u>	<u>Nominal Lumens</u>	<u>Type I</u>	<u>Type II</u>	<u>Type III</u>
Fluorescent	* 383	140	21,800	25.92		
Mercury Vapour	* 125	55	5,000	10.39	10.39	22.97
	* 175	78	7,000	14.67	14.67	27.32
	* 250	107	10,000	20.14	20.14	32.79
	* 400	166	21,000	31.24	31.24	43.88
Sodium Vapour	70	33	6,000	6.30	6.30	18.86
	*100	47	9,000	8.84	8.84	21.47
	*150	70	14,000	13.14	13.14	25.81
	200	91	20,000	17.13	17.13	29.77
	250	111	23,000	20.93	20.93	33.51
	*400	173	45,000	32.57	32.57	45.23

For Type I and Type II, Light Emitting Diode (LED) lighting service will be supplied at a monthly rate of 0.1880 per kWh as determined according to the Terms and Conditions.

* No longer available at new locations or as replacement fixtures where existing fixtures are being replaced except at the sole discretion of the Company.

OVERDUE

ACCOUNTS: A late payment charge of 1 1/2% (compounded monthly 19.56% per annum) will be assessed each month on all outstanding balances not paid by the due date.

Issued _____
FORTISBC INC.

Accepted for filing _____
BRITISH COLUMBIA UTILITIES COMMISSION

By: Diane Roy
Director, Regulatory Services

By: _____
Commission Secretary

EFFECTIVE (applicable to consumption on and after) _____

Appendix E

CUSTOMER CONSULTATION

August 4, 2015
File: 0140-20



FortisBC
1975 Springfield Road #100
Kelowna, BC
V1Y 7V7
Sent via email to: Shelley.Thomson@fortisbc.com

RE: FortisBC PowerSense

This is a letter of support from the City of Kelowna for FortisBC's upcoming LED Streetlight Tariff Update Application. The City and FortisBC will be conducting this LED pilot project in partnership and the City is pleased to continue working with FortisBC on initiatives such as this that conserve energy and reduce costs.

The City supports the following:

- Billing for Dimmable Lighting service will be available with five or more fixtures. For each dimmable fixture the City will provide FortisBC with a schedule on June 1 of each year showing:
 - Rated wattage of lamp and auxiliary devices
 - Wattage consumed each hour
 - Annual kWh consumption
- FortisBC will bill one-twelfth of annual consumption to the City of Kelowna each month.
- The City will provide timely notice to FortisBC of any changes of operation, number or wattage of fixtures.

Yours truly,

A handwritten signature in black ink, appearing to read "Ron Mattiussi", is written over a light blue rectangular background.

R.L. (Ron) Mattiussi, MCIP
City Manager

City of Kelowna
1435 Water Street
Kelowna, BC V1Y 1J4
TEL 250 469-8901
FAX 250 862-3399
kelowna.ca



June 15, 2015

BC Utilities Commission
Box 250
900 Howe Street, Sixth Floor
Vancouver, B.C. V6Z 2N3

Dear Sirs:

RE: FORTIS PROPOSED TARIFF CHANGE FOR LED STREET LIGHTING

City Council is very pleased to learn of Fortis' application to the BC Utilities Commission for a tariff change related to adaptive LED street lighting.

In 2013, the City of Castlegar became the first city in British Columbia to fully retrofit all of our street lights with LED fixtures. Our fixtures are programmable to use low energy during late night/early morning time slots.

Our cost/benefit analysis is predicated on achieving an actual billable rate for energy consumed, rather than the current blanket rate.

The City of Castlegar supports the tariff change being suggested by Fortis and we urge the Commission to give its consent to the application.

Sincerely,

Lawrence D. Chernoff
Mayor

THE CITY OF CASTLEGAR

460 Columbia Avenue, Castlegar, B.C. V1N 1G7
PHONE 250.365.7227 FAX 250.365.4810

WWW.CASTLEGAR.CA



City of Trail

Office of the Mayor

May 26, 2015

BC Utilities Commission
Box 250
900 Howe Street, Sixth floor
Vancouver, BC V6Z 2N3

Dear Sirs:

RE: ADAPTIVE LED STREET LIGHTING

Representatives of the City of Trail met recently with Blair Weston, FortisBC's Community and Aboriginal Relations Manager, and were very encouraged to learn of Fortis' pending application to the BC Utilities Commission for a tariff change related to adaptive LED street lighting.

In an effort to reduce energy consumption, the City of Trail commenced a multi-year capital project in 2014 that involves retrofitting the City's street lights to adaptive LED fixtures. The project, totaling \$800,000, will see 900 sodium vapour fixtures in our community converted to LED fixtures. As part of the project, we have chosen to install fixtures that can be programmed and dimmed in the early morning hours, resulting in even greater energy reductions.

However, before the City can fully realize the financial savings made possible by this significant capital investment, we understand that the tariff structure outlined in Schedule 50 requires change. The City had opportunity to review the amendments proposed by FortisBC that will incorporate a billable rate for LED lighting services and further recognize dimmable lighting.

The City is fully supportive of the tariff change being suggested by Fortis and we do hope that the Commission will look favourably upon the application.

Sincerely,

A. Sandy Santori
Acting Mayor





THE CORPORATION OF THE VILLAGE OF SLOCAN

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Office of the Mayor

June 15, 2015

BC Utilities Commission
Box 250 900 Howe Street, Sixth floor
Vancouver BC V6Z 2N3

Dear Commission:

Re: Adaptive LED Street Lighting

Representatives of the Village of Slocan met recently with Mr. Blair Weston, FortisBC's Community and Aboriginal Relations Manager. The Village is encouraged to learn of Fortis' pending application to the BC Utilities Commission for a tariff change related to adaptive LED street lighting and further hopes that this encourages FortisBC to eliminate high energy consuming street light fixtures in the Village.

The Village of Slocan is pleased to provide this letter in support of Fortis BC's proposed revision to the LED lighting tariff Schedule 50.

Further, as a signatory to the BC Climate Action Charter, the Village actively seeks ways to reduce its corporate energy and emissions. Within the Village there are still 23 250W Fortis owned Mercury Vapour Street Lights. These are known to have high energy consumption rates. The remaining street lights are sodium vapour varieties, also high energy consumers. In light of the new tariff schedule for LED lighting, we ask that FortisBC plan to replace the existing Fortis owned street lights in the Village of Slocan with more energy efficient LED models.

FortisBC has an active PowerSense program that supports and encourages customers to be more energy efficient. The Village of Slocan supports a LED streetlight replacement program to be incorporated into the Power Sense program. The energy savings for municipalities would be beneficial to all.

The Village is fully supportive of the tariff change being suggested by FortisBC and we do hope that the Commission will look favourably upon the application. We also ask that the Commission support a program that will enable FortisBC to modernize street lights and remove high energy consuming models.

Sincerely,


Jessica Lunn
Mayor

cc: FortisBC, 3100 West Kootenay Road South Slocan BC V0G 2G1