



**Portland General Electric Company**  
121 SW Salmon Street • Portland, Oregon 97204  
PortlandGeneral.com

February 28, 2017

Public Utility Commission of Oregon  
Attn: Filing Center  
201 High Street, S.E.  
P.O. Box 1088  
Salem, OR 97308-1088

**RE: Advice No. 17-06, Portland General Electric General Rate Revision UE 319**

Portland General Electric (PGE) submits this filing pursuant to Oregon Revised Statutes (ORS) 757.205 and 757.210 and Oregon Administrative Rules (OARs) 860-022-0025 and 860-022-0030 for filing proposed tariff sheets associated with Tariff P.U.C. No. 18.

In addition, PGE hereby submits for filing revised tariff sheets implementing a general rate revision. A list of the revised Tariff sheets is attached.

Enclosed are 20 copies of Direct Testimony, Exhibits and an Executive Summary, that conform to the requirements in OAR 860-022-0019 for a general rate revision. Three copies of the non-confidential portion of work papers are provided on the enclosed CDs showing the source and calculation of rates. Confidential work papers accompany our filing pursuant to Protective Order 17-057. By April 1<sup>st</sup>, we will file the remaining power cost updates.

The tariff changes are filed with an effective date of March 31, 2017, subject to suspension for investigation. We request that a prehearing conference be held expeditiously to establish a schedule that will allow a Commission Order by mid-December and revised prices effective January 1, 2018.

All Data Request Responses

PGE will upload and post to the OPUC site: <https://oregonPUC.huddle.com>, contemporaneous with this filing, the Standard Data Responses that have been completed. *As Intervenors are approved the OPUC will send an invitation to access the posted responses.*

Please direct your communications related to this filing to the following email address:  
[pge.opuc.filings@pgn.com](mailto:pge.opuc.filings@pgn.com)

Jay Tinker  
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Sincerely,

A handwritten signature in cursive script that reads "Jay Tinker".

Jay Tinker  
Director, Regulatory Policy & Affairs

Enclosures

cc: Service List – UE 294 (Electronic only)

**SCHEDULE 6 (Continued)**

**APPLICABLE**

Subject to selection by the Company, eligible Residential (Schedule 7) Customers may elect to participate in the pilot as described in the Enrollment section of this tariff. The Company will select the pricing option under Monthly Rate. Eligible Customers must have a Network Meter. See the Special Conditions section for a list of relevant eligibility criteria. Customers participating in the pricing pilot will be transferred from Schedule 7 to Schedule 6 for the duration of the pilot.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\* will apply to Customers participating in the pricing pilot:

<u>Basic Charge</u>	\$11.50	(I)
<u>Transmission and Related Services Charge</u>	0.220 ¢ per kWh	(R)
<u>Distribution Charge</u>	4.530 ¢ per kWh	(I)
<u>Energy Charge</u>		

See options that follow. The Company will choose the energy price option for each Customer.

\* See Schedule 100 for applicable adjustments.

**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Standard Block with PTR**

Energy Charge

First 1,000 kWh	6.795	¢ per kWh	(R)
Over 1,000 kWh	7.517	¢ per kWh	(R)
Peak Time Rebate* (when called)			
Credit at one of the following rates**:			
High	225.000	¢ per kWh	
Mid	155.000	¢ per kWh	
Low	80.000	¢ per kWh	

All Year Long

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Seven Days a Week	Std Block																						
Day with PTR (when called*)	Std Block												PTR Window 2-5 Hours					Std Block					

\* The Company will call Peak Time Rebate events only in Event Seasons. Events will not be called on Holidays. Customers pay energy charges based on a standard day, but are also eligible for a Peak Time Rebate.

\*\* Determined by the Company upon enrollment.

**Day/Night Time of Use**

Energy Charge

Off-Peak Period	4.389	¢ per kWh	(R)
On-Peak Period	10.489	¢ per kWh	(R)
First 1,000 kWh block adjustment	(0.722)	¢ per kWh	

All Year Long

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak						On Peak															Off Peak	
Saturdays, Sundays, and Holidays	Off Peak																						

**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Day/Night Time of Use with PTR**

Energy Charge

Off-Peak Period	4.389	¢ per kWh	(R)
On-Peak Period	10.489	¢ per kWh	(R)
First 1,000 kWh block adjustment	(0.722)	¢ per kWh	
Peak Time Rebate* (when called)			
Credit at one of the following rates**:			
High	225.000	¢ per kWh	
Mid	155.000	¢ per kWh	
Low	80.000	¢ per kWh	

Summer Hours (May 1 – October 31)

	AM												PM											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
Standard Day Mon. - Fri.	Off Peak						On Peak												Off Peak					
Day with PTR (when called*)	Off Peak						On Peak						PTR Window 2-5 Hours			On Peak	Off Peak							
Saturdays, Sundays, and Holidays	Off Peak																							

Winter Hours (November 1 – April 30)

	AM												PM											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
Standard Day Mon. - Fri.	Off Peak						On Peak												Off Peak					
Day with PTR (when called*)	PM	Off Peak						On Peak						PTR Window 2-5 Hours			On Peak	Off Peak						
	AM	Off Peak						PTR Window 2-4 Hours			On Peak						Off Peak							
Saturdays, Sundays, and Holidays	Off Peak																							

\* The Company will call Peak Time Rebate events only in Event Seasons. Events will not be called on Holidays. Customers pay energy charges based on a standard day, but are also eligible for a Peak Time Rebate.

\*\* Determined by the Company upon enrollment.

**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Two Period Time of Use**

Energy Charge

Off-Peak Period	5.216	¢ per kWh
On-Peak Period	14.516	¢ per kWh
First 1,000 kWh block adjustment	(0.722)	¢ per kWh

(R)  
(R)

Summer Hours (May 1 – October 31)

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak												On Peak					Off Peak					
Saturdays, Sundays, and Holidays	Off Peak																						

Winter Hours (November 1 – April 30)

	AM												PM														
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11				
Standard Day Mon. - Fri.	Off Peak						On Peak						Off Peak					On Peak					Off Peak				
Saturdays, Sundays, and Holidays	Off Peak																										

**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Two Period Time of Use with Peak Time Rebate**

Energy Charge

Off-Peak Period	5.216	¢ per kWh	(R)
On-Peak Period	14.516	¢ per kWh	(R)
First 1,000 kWh block adjustment	(0.722)	¢ per kWh	
Peak Time Rebate* (when called)			
Credit at one of the following rates**:			
High	225.000	¢ per kWh	
Mid	155.000	¢ per kWh	
Low	80.000	¢ per kWh	

Summer Hours (May 1 – October 31)

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak												On Peak			Off Peak							
Day with PTR (when called*)	Off Peak												PTR Window 2-5 Hours			Off Peak							
Saturdays, Sundays, and Holidays	Off Peak																						

Winter Hours (November 1 – April 30)

	AM												PM											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
Standard Day Mon. - Fri.	Off Peak						On Peak						Off Peak			On Peak			Off Peak					
Day with PTR (when called*)	PM	Off Peak						On Peak						Off Peak			PTR Window 2-5 Hours			Off Peak				
	AM	Off Peak						PTR Window 2-4 Hours			Off Peak			On Peak			Off Peak							
Saturdays, Sundays, and Holidays	Off Peak																							

\* The Company will call Peak Time Rebate events only in Event Seasons. Events will not be called on Holidays. Customers pay energy charges based on a standard day, but are also eligible for a Peak Time Rebate.

\*\* Determined by the Company upon enrollment.

**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Three Period Time of Use**

Energy Charge

Off-Peak Period	3.779	¢ per kWh
Mid-Peak Period	8.779	¢ per kWh
On-Peak Period	14.879	¢ per kWh
First 1,000 kWh block adjustment	(0.722)	¢ per kWh

(R)  
|  
(R)

Summer Hours (May 1 – October 31)

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak											Mid Peak	On Peak					Mid Peak	Off Peak				
Saturdays, Sundays, and Holidays	Off Peak																						

Winter Hours (November 1 – April 30)

	AM												PM										
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak							On Peak					Mid Peak	On Peak					Mid Peak	Off Peak			
Saturdays, Sundays, and Holidays	Off Peak																						



**SCHEDULE 6 (Continued)**

MONTHLY RATE (Continued)

**Three Period Time of Use with Peak Time Rebate**

Energy Charge

Off-Peak Period	3.779	¢ per kWh	(R)   (R)
Mid-Peak Period	8.779	¢ per kWh	
On-Peak Period	14.879	¢ per kWh	
First 1,000 kWh block adjustment	(0.722)	¢ per kWh	

Peak Time Rebate\* (when called)

Credit at one of the following rates\*\*:

High	225.000	¢ per kWh
Mid	155.000	¢ per kWh
Low	80.000	¢ per kWh

Summer Hours (May 1 – October 31)

	AM											PM											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak											Mid Peak	On Peak					Mid Peak	Off Peak				
Day with PTR (when called*)	Off Peak											Mid Peak	PTR Window 2-5 Hours					Mid Peak	Off Peak				
Saturdays, Sundays, and Holidays	Off Peak																						

Winter Hours (November 1 – April 30)

	AM											PM											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Standard Day Mon. - Fri.	Off Peak						On Peak					Mid Peak	On Peak					Mid Peak	Off Peak				
Day with PTR (when called*)	PM	Off Peak						On Peak					Mid Peak	PTR Window 2-5 Hours					Mid Peak	Off Peak			
	AM	Off Peak						PTR Window 2-4 Hours					Mid Peak	On Peak					Mid Peak	Off Peak			
Saturdays, Sundays, and Holidays	Off Peak																						

\* The Company will call Peak Time Rebate events only in Event Seasons. Events will not be called on Holidays. Customers pay energy charges based on a standard day, but are also eligible for a Peak Time Rebate.

\*\* Determined by the Company upon enrollment.

**SCHEDULE 7  
RESIDENTIAL SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Residential Customers.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$11.50		(I)
<u>Transmission and Related Services Charge</u>	0.220	¢ per kWh	(R)
<u>Distribution Charge</u>	4.530	¢ per kWh	(I)
<u>Energy Charge Options</u>			
Standard Service			
First 1,000 kWh	6.795	¢ per kWh	(R)
Over 1,000 kWh	7.517	¢ per kWh	
or			
Time-of-Use (TOU) Portfolio (Whole Premises or Electric Vehicle (EV) TOU) (Enrollment is necessary)			
On-Peak Period	13.121	¢ per kWh	(R)
Mid-Peak Period	7.517	¢ per kWh	
Off-Peak Period	4.375	¢ per kWh	
First 1,000 kWh block adjustment**	(0.722)	¢ per kWh	

\* See Schedule 100 for applicable adjustments.

\*\* Not applicable to separately metered Electric Vehicle (EV) TOU option.

**SCHEDULE 15  
OUTDOOR AREA LIGHTING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Customers for outdoor area lighting.

**CHARACTER OF SERVICE**

Lighting services, which consist of the provision of Company-owned luminaires mounted on Company-owned poles, in accordance with Company specifications as to equipment, installation, maintenance and operation.

The Company will replace lamps on a scheduled basis. Subject to the Company's operating schedules and requirements, the Company will replace individual burned-out lamps as soon as reasonably possible after the Customer notifies the Company of the burn-out.

**MONTHLY RATE**

Included in the service rates for each installed luminaire are the following pricing components:

<u>Transmission and Related Services Charge</u>	0.128	¢ per kWh	(R)
<u>Distribution Charge</u>	6.510	¢ per kWh	(I)
<u>Cost of Service Energy Charge</u>	5.129	¢ per kWh	(R)

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)

Rates for Area Lighting

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate <sup>(1)</sup> Per Luminaire</u>	
Cobrahead					
Mercury Vapor	175	7,000	66	\$ 13.03 <sup>(2)</sup>	(I)
	400	21,000	147	23.11 <sup>(2)</sup>	
	1,000	55,000	374	50.05 <sup>(2)</sup>	(I)
HPS	70	6,300	30	8.83 <sup>(2)</sup>	(R)
	100	9,500	43	10.36	(I)
	150	16,000	62	12.71	
	200	22,000	79	15.10	
	250	29,000	102	17.68	
	310	37,000	124	20.63 <sup>(2)</sup>	
	400	50,000	163	24.93	
Flood, HPS	100	9,500	43	10.26 <sup>(2)</sup>	
	200	22,000	79	15.31 <sup>(2)</sup>	
	250	29,000	102	17.96	
	400	50,000	163	25.14	(I)
Shoebox, HPS (bronze color, flat lens or drop lens, multi-volt)	70	6,300	30	10.15	(R)
	100	9,500	43	11.37	(R)
	150	16,500	62	13.93	(I)
Special Acorn Type, HPS	100	9,500	43	13.62	(R)
HADCO Victorian, HPS	150	16,500	62	15.86	
	200	22,000	79	18.52	(R)
	250	29,000	102	21.22	(I)
Early American Post-Top, HPS					
Black	100	9,500	43	10.74	(I)

(1) See Schedule 100 for applicable adjustments.  
(2) No new service.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

Type of Light	Watts	Lumens	Monthly kWh	Monthly Rate Per Luminaire <sup>(1)</sup>	
Special Types					
Cobrahead, Metal Halide	150	10,000	60	\$ 12.89	(I)
	175	12,000	71	14.25	
Flood, Metal Halide	350	30,000	139	22.34	
	400	40,000	156	24.53	
Flood, HPS	750	105,000	285	42.72	(I)
HADCO Independence, HPS	100	9,500	43	13.76	(R)
	150	16,000	62	16.00	(I)
HADCO Capitol Acorn, HPS	100	9,500	43	17.21	(I)
	150	16,000	62	18.18	(R)
	200	22,000	79	20.19	
	250	29,000	102	22.88	
HADCO Techtra, HPS	100	9,500	43	22.11	
	150	16,000	62	24.13	
	250	29,000	102	28.65	
HADCO Westbrooke, HPS	70	6,300	30	14.63	
	100	9,500	43	15.74	(R)
	150	16,000	62	22.53	(I)
	200	22,000	79	20.16	(R)
	250	29,000	102	23.43	(I)
Holophane Mongoose, HPS	150	16,000	62	16.24	(R)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)  
Rates for LED Area Lighting

Type of Light	Watts	Lumens	Monthly kWh	Monthly Rate Per Luminaire <sup>(1)</sup>	
Acorn					
LED	60	5,488	21	\$ 13.53	(R)
	70	4,332	24	15.52	
HADCO LED	70	5,120	24	18.41	(R)
Cobrahead Equivalent					
LED	37	2,530	13	4.81	(I)
	50	3,162	17	5.28	
	52	3,757	18	5.73	
	67	5,050	23	6.52	
	106	7,444	36	8.81	(I)
	134	14,200	46	11.80	(R)
	156	16,300	53	13.75	
	176	18,300	60	14.98	
	201	21,400	69	15.34	
Westbrooke LED (Non-Flare)	36	3,369	12	14.61	
	53	5,079	18	17.01	
	69	6,661	24	17.33	(R)
	85	8,153	29	18.93	(I)
	136	12,687	46	22.95	(R)
	206	18,159	70	25.50	
Westbrooke LED (Flare)	36	3,369	12	15.64	
	53	5,079	18	18.96	
	69	6,661	24	19.66	
	85	8,153	29	19.28	
	136	12,687	46	23.97	
	206	18,159	70	26.80	(R)
CREE XSP LED	25	2,529	9	3.50	(I)
	42	3,819	14	4.17	
	48	4,373	16	4.80	(I)
	56	5,863	19	5.59	
	91	8,747	31	7.00	(I)
Post-Top, American Revolution					
LED	45	3,395	15	7.81	(I)
	72	4,409	25	8.46	(R)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)

<u>Type of Pole</u> Rates for Area Light Poles <sup>(1)</sup>	<u>Pole Length (feet)</u>	<u>Monthly Rate Per Pole</u>		
Wood, Standard	35 or less	\$ 5.08	(R)	
	40 to 55	6.63		
Wood, Painted for Underground	35 or less	5.08 <sup>(2)</sup>		
Wood, Curved Laminated	30 or less	6.28 <sup>(2)</sup>		
Aluminum, Regular	16	6.03		
	25	10.01		
	30	10.81		
	35	12.92		
Aluminum, Fluted Ornamental	14	8.81		
Aluminum Davit	25	9.99		
	30	9.95		
	35	10.87		
	40	14.73		
Aluminum Double Davit	30	14.64		
Aluminum, Fluted Ornamental	16	9.00		
Aluminum, HADCO, Smooth Techtra Ornamental	18	17.32		
Aluminum, HADCO, Fluted Westbrooke	18	17.36		
Aluminum, HADCO, Smooth Westbrooke	18	18.40		
Concrete Ameron Post-Top	25	17.28		(R)

(1) See Schedule 100 for applicable adjustments.

(2) No new service.

**SCHEDULE 15 (Continued)**

MONTHLY RATE (Continued)

<u>Type of Pole</u> <u>Rates for Area Light Poles<sup>(1)</sup></u>	<u>Pole Length (feet)</u>	<u>Monthly Rate Per Pole</u>	
Fiberglass Fluted Ornamental; Black	14	\$ 10.66	(R)
Fiberglass, Regular			
Black	20	4.46	
Gray or Bronze	30	7.57	
Black, Gray, or Bronze	35	6.51	
Fiberglass, Anchor Base, Gray or Black	35	11.83	
Fiberglass, Direct Bury with Shroud	18	7.19	(R)

**INSTALLATION CHARGE**

See Schedule 300 regarding the installation of conduit on wood poles.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

(1) No pole charge for luminaires placed on existing Company-owned distribution poles.



**SCHEDULE 32  
SMALL NONRESIDENTIAL  
STANDARD SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers. A Small Nonresidential Customer is a Customer that has not exceeded 30 kW more than once within the preceding 13 months, or with seven months or less of service has not exceeded 30 kW.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>			
Single Phase Service	\$18.00		(I)
Three Phase Service	\$24.00		(I)
<u>Transmission and Related Services Charge</u>	0.185	¢ per kWh	(R)
<u>Distribution Charge</u>			
First 5,000 kWh	4.522	¢ per kWh	(I)
Over 5,000 kWh	0.947	¢ per kWh	(R)
<u>Energy Charge Options</u>			
Standard Service	6.195	¢ per kWh	
or			
Time-of-Use (TOU) Portfolio (enrollment is necessary)			
On-Peak Period	10.927	¢ per kWh	
Mid-Peak Period	6.195	¢ per kWh	
Off-Peak Period	3.645	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

**SCHEDULE 32 (Continued)**

**TIME OF USE PORTFOLIO OPTION**

**On- and Off-Peak Hours\***

Summer Months (begins May 1st of each year)	
On-Peak	3:00 p.m. to 8:00 p.m. Monday-Friday
Mid-Peak	6:00 a.m. to 3:00 p.m. and 8:00 p.m. to 10:00 p.m. Monday-Friday; 6:00 a.m. to 10:00 p.m. Saturday
Off-Peak	10:00 p.m. to 6:00 a.m. all days; 6:00 a.m. to 10:00 p.m. Sunday and Holidays**
Winter Months (begins November 1st of each year)	
On-Peak	6:00 a.m. to 10:00 a.m. and 5:00 p.m. to 8:00 p.m. Monday-Friday
Mid-Peak	10:00 a.m. to 5:00 p.m. and 8:00 p.m. to 10:00 p.m. Monday-Friday; 6:00 a.m. to 10:00 p.m. Saturday
Off-Peak	10:00 p.m. to 6:00 a.m. all days; 6:00 a.m. to 10:00 p.m. Sunday and Holidays**

\* The time periods set forth above will begin and end one hour later for the period between the second Sunday in March and the first Sunday in April, and for the period between the last Sunday in October and the first Sunday in November. Customers with AMI meters will observe the regular daylight saving schedule.

\*\* Holidays are New Year's Day (January 1), Memorial Day (last Monday in May), Independence Day (July 4), Labor Day (first Monday in September), Thanksgiving Day (fourth Thursday in November), and Christmas Day (December 25). If a holiday falls on Saturday, Friday is designated a TOU holiday. If a holiday falls on Sunday, the following Monday is designated a TOU holiday.

**DAILY PRICE**

The Daily Price, applicable with Direct Access Service, is available to those Customers who were served under Schedule 532 and subsequently returned to this schedule before meeting the minimum term requirement of Schedule 532. The Customer will be charged the Daily Price charge of this schedule until the term requirement of Schedule 532 is met.

The Daily Price will consist of:

- the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index)
- plus 0.309¢ per kWh for wheeling
- times a loss adjustment factor of 1.0685

(1)

If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 38  
LARGE NONRESIDENTIAL OPTIONAL TIME-OF-DAY  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

This optional schedule is applicable to Large Nonresidential Customers: 1) served at Secondary voltage with a monthly Demand that does not exceed 200 kW more than once in the preceding 13 months; or 2) who were receiving service on Schedule 38 as of December 31, 2015.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$25.00		
<u>Transmission and Related Services Charge</u>	0.153	¢ per kWh	(R)
<u>Distribution Charge</u>	7.568	¢ per kWh	(I)
<u>Energy Charge*</u>			
On-Peak Period	6.171	¢ per kWh	(R)
Off-Peak Period	5.171	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

\*\* On-peak Period is Monday-Friday, 7:00 a.m. to 8:00 p.m. off-peak Period is Monday-Friday, 8:00 p.m. to 7:00 a.m.; and all day Saturday and Sunday.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In Addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**REACTIVE DEMAND**

In addition to the Monthly Rate, the Customer will pay 50¢ for each kilovolt-ampere of Reactive Demand in excess of 40% of the maximum Demand. Such charge is separate from and in addition to the Minimum Charge specified.

**SCHEDULE 38 (Continued)**

**DIRECT ACCESS DEFAULT SERVICE**

A Customer returning to Schedule 38 service before completing the term of service specified in Schedule 538, must be billed at the Daily Price for the remainder of the term. This provision does not eliminate the requirement to receive service on Schedule 81 when notice is insufficient. The Daily Price under this schedule is as follows:

Daily Price Option - The Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. To begin service under this option, the Customer will notify the Company by the close of the November Election Window or for eligible Customers, the close of a Balance-of-Year Election Window. (I)

Losses will be included by multiplying the above applicable Energy Charge Option by the following adjustment factors:

Secondary Delivery Voltage	1.0685
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**PLUG-IN ELECTRIC VEHICLE (EV) TIME OF DAY OPTION**

A large Nonresidential Customer wishing to charge EV's may do so either as part of an integrated service or as a separately metered service billed under the TOU Option. In such cases, the applicable Basic, Transmission and Related Services, and Distribution charges will apply to the separately metered service as will all other adjustments applied to this schedule.

If the Customer chooses separately metered service for EV charging, the service shall be used for the sole and exclusive purpose of all EV charging. The Customer, at its expense, will install all necessary and required equipment to accommodate the second metered service at the premises. Such service must be metered with a network meter as defined in Rule B (30) for the purpose of load research, and to collect and analyze data to characterize electric vehicle use in diverse geographic dynamics and evaluate the effectiveness of the charging station infrastructure.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 47  
SMALL NONRESIDENTIAL  
IRRIGATION AND DRAINAGE PUMPING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required. A Small Nonresidential Customer is a Customer that has not exceeded 30 kW more than once within the preceding 13 months, or with seven months or less of service has not exceeded 30 kW.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>			
Summer Months**	\$35.00		
Winter Months**	No Charge		
<u>Transmission and Related Services Charge</u>	0.190	¢ per kWh	(R)
<u>Distribution Charge</u>			
First 50 kWh per kW of Demand***	11.482	¢ per kWh	(I)
Over 50 kWh per kW of Demand	9.482	¢ per kWh	(I)
<u>Energy Charge</u>	7.146	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

\*\*\* For billing purposes, the Demand will not be less than 10 kW.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**SCHEDULE 49  
LARGE NONRESIDENTIAL  
IRRIGATION AND DRAINAGE PUMPING  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required. A Large Nonresidential Customer is defined as having a monthly Demand exceeding 30 kW at least twice within the preceding 13 months, or with seven months or less of service having exceeding 30 kW once.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>			
Summer Months**	\$40.00		
Winter Months**	No Charge		
<u>Transmission and Related Services Charge</u>	0.190	¢ per kWh	(R)
<u>Distribution Charge</u>			
First 50 kWh per kW of Demand***	8.631	¢ per kWh	(I)
Over 50 kWh per kW of Demand	6.631	¢ per kWh	(I)
<u>Energy Charge</u>	7.092	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

\*\*\* For billing purposes, the Demand will not be less than 30 kW.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**SCHEDULE 75  
PARTIAL REQUIREMENTS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers supplying all or some portion of their load by self-generation operating on a regular basis, where the self-generation has a total nameplate rating of 2 MW or greater. A Large Nonresidential Customer is a Customer that has exceeded 30 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 30 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,350.00	\$1,910.00	\$4,080.00	(I)
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.70	\$0.68	\$0.67	(R)
<u>Distribution Charges</u> The sum of the following: per kW of Facility Capacity				
First 4,000 kW	\$1.65	\$1.61	\$1.61	(I)
Over 4,000 kW	\$1.34	\$1.30	\$1.30	(I)
per kW of monthly On-Peak Demand	\$2.84	\$2.76	\$1.36	(I)
<u>Generation Contingency Reserves Charges</u>				
<u>Spinning Reserves</u> per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234	
<u>Supplemental Reserves</u> per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234	
<u>System Usage Charge</u> per kWh	0.232 ¢	0.228 ¢	0.225 ¢	(I)
<u>Energy Charge</u> per kWh	See Energy Charge Below			

\* See Schedule 100 for applicable adjustments.

## SCHEDULE 75 (Continued)

### ENERGY CHARGE (Continued)

#### Baseline Energy (Continued)

If other than the typical operations are used to determine Baseline Energy, the Customer and the Company must agree on the Baseline Energy before the Customer may take service under this schedule. The Company may require use of an alternate method to determine the Baseline Energy when the Customer's usage not normally supplied by its generator is highly variable.

Baseline Energy will be charged at the applicable Energy Charge, including adjustments, under Schedule 89. All Energy Charge options included in Schedule 89 are available to the Customer on Schedule 75 based on the terms and conditions under Schedule 89. For Energy supplied in excess of Baseline Energy, the Scheduled Maintenance Energy and/or Unscheduled Energy charges will apply except for Energy supplied pursuant to Schedule 76R.

Any Energy Charge option for Baseline Energy selected by a Customer will remain in effect and continue to be the default option until the Customer has given the required notice to change the applicable Energy Charge Option. To change options, Customers must give notice as specified for that option and must complete the specified term of their current option. The Cost of Service Option will be the default for Customers or new Customers who have not selected another option or Direct Access Service.

#### Scheduled Maintenance Energy

Scheduled Maintenance Energy is Energy prescheduled for delivery, up to 744 hours per calendar year, to serve the Customer's load normally served by the Customer's own generation (i.e. above Baseline Energy). Scheduled Maintenance must be prescheduled at least one month (30 days) before delivery for a time period mutually agreeable to the Company and the Customer.

When the Customer preschedules Energy for an entire calendar month, the Customer may choose that the Scheduled Maintenance Energy Charge be either the Monthly Fixed or Daily Price Energy Charge Option, including adjustments as identified in Schedule 100 and notice requirements as described under Schedule 89. When the Customer preschedules Energy for less than an entire month, the Scheduled Maintenance Energy will be charged at the Daily Price Energy Option, including adjustments, under Schedule 89.

#### Unscheduled Energy

Any Electricity provided to the Customer that does not qualify as Baseline Energy or Scheduled Maintenance Energy will be Unscheduled Energy and priced at an Hourly Rate consisting of the Powerdex Mid-Columbia Hourly Firm Electricity Price Index (Powerdex-Mid-C Hourly Firm Index) plus 0.309¢ per kWh for wheeling, a 0.300¢ per kWh recovery factor, plus losses.

(I)



**SCHEDULE 76R  
PARTIAL REQUIREMENTS  
ECONOMIC REPLACEMENT POWER RIDER**

**PURPOSE**

To provide Customers served on Schedule 75 with the option of purchasing Energy from the Company to replace some, or all, of the Customer's on-site generation when the Customer deems it is more economically beneficial than self generating.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers served on Schedule 75.

**MONTHLY RATE**

The following charges are in addition to applicable charges under Schedule 75:\*

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Transmission and Related Services Charge</u> per kW of Daily Economic Replacement Power (ERP) On-Peak Demand per day	\$0.027	\$0.026	\$0.026	(R)
<u>Daily ERP Demand Charge</u> per kW of Daily ERP Demand during On-Peak hours per day**	\$0.111	\$0.108	\$0.053	(I)
<u>Transaction Fee</u> per Energy Needs Forecast (ENF)	\$50.00	\$50.00	\$50.00	
<u>Energy Charge*</u> per kWh of ERP	See below for ERP Pricing			

\* See Schedule 100 for applicable adjustments.

\*\* Peak hours (also called heavy load hours "HLH") are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours (also called light load hours "LLH") are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 76R (Continued)**

ENF AND ERP (Continued)

ERP Supply Options (Continued)

ENF Options for ERP (Continued)

The Daily ENF pre-scheduling protocols will conform to the standard practices, applicable definitions, requirements and schedules of the WECC. Pre-Schedule Day means the trading day immediately preceding the day of delivery consistent with WECC practices for Saturday, Sunday, Monday or holiday deliveries.

ERP Pricing

The following ERP Energy Charges are applied to the applicable hourly ENF and summed for the hours for the monthly billing:

Short-Notice ERP: The Short Notice ERP Energy Charge will be an Hourly Rate consisting of the Powerdex Mid-Columbia Hourly Price Index (Powerdex-Mid-C Hourly Index) plus a 5% adder, which will not be less than 0.15¢ per kWh, plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular hour or hours, the average of the immediately preceding and following reported hours' prices within on- or off-peak periods, as applicable, will determine the price for the non-reported period. Prices reported with no transaction volume or as survey-based will be considered reported. (I)

Daily ERP: The Daily ERP Energy Charge will be determined in accordance with a commodity energy price quote from the Company accepted by the Customer plus a 5% adder, which will not be less than 0.15¢ per kWh, plus 0.309¢ per kWh for wheeling, plus losses. Customer will communicate with PGE between hour 0615 and 0625 to receive the PGE commodity energy price quote based on the customer's submitted ENF for the day of delivery. Customer will state acceptance of quote within 5 minutes of receipt of quote from the Company. The quote may incorporate reasonable premiums to reflect the additional cost of ENF amounts that are in nonstandard block sizes (i.e., other than multiples of 25 MW) and such premium will not be separately stated. The methods to communicate and the times to receive information and quotes may be adjusted with mutual written agreement of the parties. Failure to accept a quote in the stated time is deemed to mean the quote is rejected and the transaction will not take place. (I)

Monthly ERP: The Monthly ERP Energy Charge will be determined in accordance with a price quote accepted by the Customer plus a 5% adder, which will not be less than 0.15¢ per kWh, plus 0.309¢ per kWh for wheeling, plus losses. At customer request and based on the submitted Monthly ENF, the Company will provide a price quote for the next full calendar month for the ENF commodity energy only amount specified by the customer at the time of the request. The Company will respond to the request with a quote within 4 hours or as otherwise mutually agreed to. Customer will accept or reject the quote within 30 minutes. Customer communication regarding a price quote will be in the manner agreed to by the Company and the Customer. The quote may incorporate reasonable premiums to reflect the additional cost of ENF amounts that are in nonstandard block sizes (i.e., other than multiples of 25 MW) and such premium will not be separately stated. (I)

**SCHEDULE 76R (Continued)**

ENF AND ERP (Continued)  
ERP Supply Options (Continued)  
ERP Pricing (Continued)

The methods to communicate and the times to receive information and quotes may be adjusted with mutual written agreement of the parties. Failure to accept a quote in the stated time is deemed to mean the quote is rejected and the transaction will not take place.

On-peak hours (Heavy Load Hours, HLH) are between 6:00 a.m. and 10:00 p.m. PPT (hours ending 0700 through 2200), Monday through Saturday. Off-peak hours (Light Load Hours, LLH) are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all hours Sunday.

Losses will be included by multiplying the ERP Charge by the following adjustment factors:

Subtransmission Delivery Voltage	1.0356
Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

**ACTUAL ENERGY USAGE**

Actual Energy usage during times when ERP deliveries are occurring will be the amount of Energy above the Customer's Schedule 75 Baseline Energy.

**IMBALANCE ENERGY SETTLEMENT**

Imbalance Settlement Amounts are bill credits or charges resulting from hourly Imbalance Energy multiplied by the applicable hourly Settlement Price and summed for all hours in the billing period. Imbalance Energy is the kWh amount determined hourly as the deviation between Actual Energy for such hour and the ENF for such hour (i.e., Imbalance Energy = Actual Energy less ENF).

For any Imbalance Energy in any hour up to 7.5% of the hourly ENF (positive or negative amount), the Imbalance Settlement Amount for the hour is:

- For positive Imbalance Energy (where Customer receives more ERP than the ENF), the Imbalance Energy multiplied by the Settlement Price of the Powerdex Mid-Columbia Hourly Price Index (Powerdex-Mid-C Hourly Index), plus 0.309¢ per kWh for wheeling, plus losses. (I)
- For negative Imbalance Energy (where Customer receives less ERP than the ENF), the Imbalance Energy is multiplied by the Settlement Price of the Powerdex-Mid-C Hourly Index plus 0.309¢ per kWh for wheeling, plus losses. (I)

### SCHEDULE 76R (Continued)

#### IMBALANCE ENERGY SETTLEMENT (Continued)

For any Imbalance Energy in any hour in excess of 7.5% of the hourly ENF (positive or negative amount), the Imbalance Settlement Amount for the hour is:

- For positive excess Imbalance Energy, the excess Imbalance Energy multiplied by the Settlement Price, which is the Powerdex Mid-Columbia Hourly Price Index (Powerdex-Mid-C Hourly Index), plus 10%, plus 0.309¢ per kWh for wheeling, plus losses. (I)

For negative excess Imbalance Energy, the excess Energy Imbalance is multiplied by the Settlement Price of the Powerdex-Mid-C Hourly Index, less 10%, plus 0.309¢ per kWh for wheeling, plus losses. (I)

The Imbalance Settlement Amount may be a credit or charge in any hour.

#### DAILY ERP DEMAND

Daily ERP Demand is the highest 30 minute Demand occurring during the days that the Company supplies ERP to the Customer less the sum of the Customer's Schedule 75 Baseline Demand and any Unscheduled Demand. Daily ERP Demand will not be less than zero. Daily ERP Demand will be billed for each day in the month that the Company supplies ERP to the Customer.

If the sum of the Customer's Unscheduled and Schedule 75 Baseline Demand exceeds their Daily ERP Demand, no additional Daily Demand charges are applied to the service under this schedule for the applicable Billing Period.

#### UNSCHEDULED DEMAND

Unscheduled Demand is the difference in the highest 30 minute monthly Demand and the Customer's Baseline occurring when the Customer did not receive ERP.

#### ADJUSTMENTS

Service under this rider is subject to all adjustments as summarized in Schedule 100, except for: 1) any power cost adjustment recovery based on costs incurred while the Customer is taking Service under this schedule, and 2) Schedule 128.

#### SPECIAL CONDITIONS

1. Prior to receiving service under this schedule, the Customer and the Company must enter into a written agreement governing the terms and conditions of service.
2. Service under this schedule applies only to prescheduled ERP supplied by the Company pursuant to this schedule and the corresponding agreement. All other Energy supplied will be made under the terms of Schedule 75. All notice provisions of this schedule and agreement must be complied with for delivery of Energy. The Customer is required to maintain Schedule 75 service unless otherwise agreed to by the Company.

**SCHEDULE 81  
NONRESIDENTIAL  
EMERGENCY DEFAULT SERVICE**

**AVAILABLE**

In all territory served by the Company. The Company may restrict Customer loads returning to this schedule in accordance with Rule N Curtailment Plan and Rule C (Section 2).

**APPLICABLE**

To existing Nonresidential Customers who are no longer receiving Direct Access Service and have not provided the Company with the notice required to receive service under the applicable Standard Service rate schedule.

**MONTHLY RATE**

All charges for Emergency Default Service except the energy charge will be billed at the Customer's applicable Standard Service rate schedule for five business days after the Customer's initial purchase of Emergency Default Service.

**ENERGY CHARGE DAILY RATE**

The Energy Charge Daily Rate will be 125% of the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Firm Electricity Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on-peak and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. (I)

Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

Losses will be included by multiplying the Energy Charge Daily Rate by the following adjustment factors:

Subtransmission Delivery Voltage	1.0356
Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

**REACTIVE DEMAND CHARGE**

In addition to the charges as specified in the Monthly Rate, the Customer will pay 50¢ for each kilovolt-ampere of Reactive Demand in excess of 40% of the maximum Demand. Such charge is separate from and in addition to the Minimum Charge specified.

**SCHEDULE 83  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(31 – 200 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has not exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW. Service under this Schedule is available for Secondary Delivery Voltage only.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>		
Single Phase Service	\$30.00	
Three Phase Service	\$40.00	
<u>Transmission and Related Services Charge</u>		
per kW of monthly On-Peak Demand	\$0.70	(R)
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 30 kW	\$3.84	(I)
Over 30 kW	\$3.74	
per kW of monthly On-Peak Demand	\$2.84	(I)
<u>Energy Charge (per kWh)</u>		
On-Peak Period***	6.618 ¢	(R)
Off-Peak Period***	5.118 ¢	
See below for Daily Pricing Option description.		
<u>System Usage Charge</u>		
per kWh	0.690 ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable POD.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 83 (Continued)**

MONTHLY RATE (Continued)

Energy Charge Options:

Any Energy Charge option selected by a Customer will remain in effect and continue to be the default option until the Customer has given the required notice to change the applicable Energy Charge Option. To change options, Customers must give notice as specified for that option below and must complete the specified term of their current option. The Cost of Service Option will be the default for Customers or new Customers who have not selected another option or Direct Access Service. If a Customer chooses Direct Access Service or a pricing option other than the Cost of Service Option, that Customer may not receive service under the Cost of Service Option until the next service year and with timely notice.

**NON COST OF SERVICE OPTION**

Daily Price Option - The Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. To begin service under this option, the Customer receiving service under Cost of Service price option will notify the Company by the close of the November Election Window or for eligible Customers, the close of a Balance-of-Year Election Window. (I)

Losses will be included by multiplying the above applicable Energy Charge Option by the following adjustment factors:

Secondary Delivery Voltage	1.0685
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Non-Cost of Service Option is subject to Schedule 128, Short Term Transition Adjustment.

Interval metering and meter communications should be in place prior to initiation of service under this schedule. Where interval metering has not been installed, the Customer's Electricity usage will be billed as 65% on-peak and 35% off-peak. Upon installation of an interval meter, the Company will bill the Customer according to actual metered usage.

**PLUG-IN ELECTRIC VEHICLE TIME OF USE (EV TOU) OPTION**

Should a Customer receiving service under this Schedule 83 opt for a separately metered EV TOU option, the separately metered Electric Vehicle charging load will determine the applicable rate schedule under which EV TOU charging service is provided. For example, please refer to Schedules 32 and 38.

**SCHEDULE 85  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(201 – 4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Secondary Delivery Voltage Large Nonresidential Customer whose Demand has exceeded 200 kW more than six times in the preceding 13 months but has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW. To each Primary Delivery Voltage Large Nonresidential Customer whose Demand has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>		
	<u>Secondary</u>	<u>Primary</u>	
<u>Basic Charge</u>	\$530.00	\$490.00	(I)
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.70	\$0.68	(R)
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity			
First 200 kW	\$3.50	\$3.42	(I)
Over 200 kW	\$2.60	\$2.52	
per kW of monthly On-Peak Demand	\$2.84	\$2.76	(I)
<u>Energy Charge (per kWh)</u>			
On-Peak Period***	6.441 ¢	6.332 ¢	(R)
Off-Peak Period***	4.941 ¢	4.832 ¢	
See below for Daily Pricing Option description.			
<u>System Usage Charge</u> per kWh	0.151 ¢	0.146 ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable POD.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.



**SCHEDULE 85 (Continued)**

MONTHLY RATE (Continued)

Energy Charge Options:

Any Energy Charge option selected by a Customer will remain in effect and continue to be the default option until the Customer has given the required notice to change the applicable Energy Charge Option. To change options, Customers must give notice as specified for that option below and must complete the specified term of their current option. The Cost of Service Option will be the default for Customers or new Customers who have not selected another option or Direct Access Service. If a Customer chooses Direct Access Service or a pricing option other than the Cost of Service Option, that Customer may not receive service under the Cost of Service Option until the next service year and with timely notice.

**PLUG-IN ELECTRIC VEHICLE TIME OF USE (EV TOU) OPTION**

Should a Customer receiving service under this Schedule 85 opt for a separately metered EV TOU option, the separately metered Electric Vehicle charging load will determine the applicable rate Schedule under which EV TOU charging service is provided. For example, please refer to Schedules 32 and 38.

**NON COST OF SERVICE OPTION**

Daily Price Option - The Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. To begin service under this option, the Customer receiving service under Cost of Service price option will notify the Company by the close of the November Election Window or for eligible Customers, the close of a Balance-of-Year Election Window. (1)

Losses will be included by multiplying the above applicable Energy Charge Option by the following adjustment factors:

Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

Non-Cost of Service Option is subject to Schedule 128, Short Term Transition Adjustment.

Interval metering and meter communications should be in place prior to initiation of service under this schedule. Where interval metering has not been installed, the Customer's Electricity usage will be billed as 65% on-peak and 35% off-peak. Upon installation of an interval meter, the Company will bill the Customer according to actual metered usage.

**SCHEDULE 89  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(>4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,350.00	\$1,910.00	\$4,080.00	(I)
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.70	\$0.68	\$0.67	(R)
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity				
First 4,000 kW	\$1.65	\$1.61	\$1.61	(I)
Over 4,000 kW	\$1.34	\$1.30	\$1.30	(I)
per kW of monthly On-Peak Demand	\$2.84	\$2.76	\$1.36	(I)
<u>Energy Charge (per kWh)</u>				
On-Peak Period***	6.155 ¢	6.054 ¢	5.979 ¢	(R)
Off-Peak Period***	4.655 ¢	4.554 ¢	4.479 ¢	(R)
See below for Daily Pricing Option description.				
<u>System Usage Charge</u> per kWh	0.232 ¢	0.228 ¢	0.225 ¢	(I)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable POD.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 89 (Continued)**

MONTHLY RATE (Continued)

Energy Charge Options:

Any Energy Charge option selected by a Customer will remain in effect and continue to be the default option until the Customer has given the required notice to change the applicable Energy Charge Option. To change options, Customers must give notice as specified for that option below and must complete the specified term of their current option. The Cost of Service Option will be the default for Customers or new Customers who have not selected another option or Direct Access Service. If a Customer chooses Direct Access Service or a pricing option other than the Cost of Service Option, it may not receive service under the Cost of Service Option until the next service year and with timely notice.

**NON-COST OF SERVICE OPTION**

Daily Price Option - The Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. To begin service under this option, the Customer receiving service under Cost of Service price option will notify the Company by the close of the November Election Window or for eligible Customers, the close of a Balance-of-Year Election Window. (I)

Losses will be included by multiplying the above applicable Energy Charge Option by the following adjustment factors:

Subtransmission Delivery Voltage	1.0356
Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

Non-Cost of Service Option is subject to Schedule 128, Short Term Transition Adjustment

**PLUG-IN ELECTRIC VEHICLE TIME OF USE (EV TOU) OPTION**

Should a Customer receiving service under this Schedule 89 opt for a separately metered EV TOU option, the separately metered Electric Vehicle charging load will determine the applicable rate schedule under which EV TOU charging service is provided. For example, please refer to Schedules 32 and 38.

**SCHEDULE 90  
LARGE NONRESIDENTIAL  
STANDARD SERVICE  
(>4,000 kW and Aggregate to >100 MWa)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer who meet the following conditions: 1) Individual account demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW; and 2) where combined usage of all accounts meeting condition 1 for the Large Nonresidential Customer aggregate to at least 100 MWa in a calendar year; and 3) the customer maintains a load factor of 80% or greater for each account.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$5,600.00	(R)
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.68	(R)
<u>Distribution Charges**</u> The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.48	(I)
Over 4,000 kW	\$1.17	
per kW of monthly on-peak Demand	\$2.76	(I)
<u>Energy Charge</u> (per kWh)		
On-Peak Period***	5.996 ¢	(R)
Off-Peak Period***	4.496 ¢	
See below for Daily Pricing Option description.		
<u>System Usage Charge</u> per kWh	0.100 ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the applicable POD.

\*\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 90 (Continued)**

MONTHLY RATE (Continued)

Energy Charge Options:

Any Energy Charge option selected by a Customer will remain in effect and continue to be the default option until the Customer has given the required notice to change the applicable Energy Charge Option. To change options, Customers must give notice as specified for that option below and must complete the specified term of their current option. The Cost of Service Option will be the default for Customers or new Customers who have not selected another option or Direct Access Service. If a Customer chooses Direct Access Service or a pricing option other than the Cost of Service Option, it may not receive service under the Cost of Service Option until the next service year and with timely notice.

**NON-COST OF SERVICE OPTION**

Daily Price Option - The Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported. To begin service under this option, the Customer receiving service under Cost of Service price option will notify the Company by the close of the November Election Window or for eligible Customers, the close of a Balance-of-Year Election Window. (I)

Losses will be included by multiplying the above applicable Energy Charge Option by the following adjustment factors:

Subtransmission Delivery Voltage	1.0356
Primary Delivery Voltage	1.0496
Secondary Delivery Voltage	1.0685

Non-Cost of Service Option is subject to Schedule 128, Short Term Transition Adjustment

**PLUG-IN ELECTRIC VEHICLE TIME OF USE (EV TOU) OPTION**

Should a Customer receiving service under this Schedule 89 opt for a separately metered EV TOU option, the separately metered Electric Vehicle charging load will determine the applicable rate schedule under which EV TOU charging service is provided. For example, please refer to Schedules 32 and 38.

**SCHEDULE 91 (Continued)**

**MONTHLY RATE**

In addition to the service rates for Option A and B lights, all Customers will pay the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Transmission and Related Services Charge</u>	0.128 ¢ per kWh	(R)
<u>Distribution Charge</u>	6.510 ¢ per kWh	(I)
<u>Energy Charge</u>		
Cost of Service Option	5.129 ¢ per kWh	(R)

Daily Price Option – Available only to Customers with an average load of five MW or greater on Schedules 91 and 95 and those customers that met the five MW or greater threshold prior to converting to lights from Schedule 91 to Schedule 95. This selection of this option applies to all luminaires served under Schedules 91 and 95. This option gives eligible Customers an option between a daily Energy price and a Cost of Service option for the Energy charge. In addition to the daily Energy price, the Customer will pay a Basic Charge of \$75 per month to help offset the costs of billing this option. The daily Energy price for all kWh will be the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. (I)

Prices reported with no transaction volume or as "survey-based" will be considered reported. For the purposes of calculating the daily on- and off-peak usage, actual kWhs will be determined for each month, using Sunrise Sunset Tables with adjustments for typical photocell operation and 4,100 annual burning hours.

For Customers billed on the Daily price Option, an average of the daily rates will be used to bill installations and removals that occur during the month. Any additional analysis of billing options and price comparisons beyond the monthly bill will be billed at a rate of \$100 per manhour.

Losses will be included by multiplying the applicable daily Energy price by 1.0685.

The Daily Price Option is subject to Schedule 128, Short Term Transition Adjustment.

Enrollment for Service

To begin service under the Daily Price Option on January 1<sup>st</sup>, the Customer will notify the Company by 5:00 p.m. PPT on November 15<sup>th</sup> (or the following working day if the 15<sup>th</sup> falls on a weekend or holiday) of the year prior to the service year of its choice of this option. Customers selecting this option must commit to this option for an entire service year. The Customer will continue to be billed on this option until timely notice is received to return to the Cost of Service Option.

**SCHEDULE 91 (Continued)**

**RATES FOR STANDARD LIGHTING**

**High-Pressure Sodium (HPS) Only – Service Rates**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>		
				<u>Option A</u>	<u>Option B</u>	
Cobrahead Power Doors **	70	6,300	30	*	\$ 1.27	(R)
	100	9,500	43	*	1.27	
	150	16,000	62	*	1.28	
	200	22,000	79	*	1.31	
	250	29,000	102	*	1.29	
	400	50,000	163	*	1.33	
Cobrahead	70	6,300	30	\$ 4.41	1.50	(R)
	100	9,500	43	4.41	1.50	
	150	16,000	62	4.52	1.51	
	200	22,000	79	5.24	1.57	
	250	29,000	102	5.12	1.55	
	400	50,000	163	5.19	1.56	
Flood	250	29,000	102	5.40	1.58	(R)
	400	50,000	163	5.40	1.58	
Early American Post-Top	100	9,500	43	4.79	1.55	
Shoebox (bronze color, flat lens, or drop lens, multi-volt)	70	6,300	30	5.73	1.68	(R)
	100	9,500	43	5.42	1.64	
	150	16,000	62	5.74	1.68	

\* Not offered.

\*\* Service is only available to Customers with total power door luminaires in excess of 2,500.

**RATES FOR STANDARD POLES**

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Fiberglass, Black, Bronze, or Gray	20	\$ 4.46	\$ 0.14	(R)
Fiberglass, Black or Bronze	30	7.03	0.23	
Fiberglass, Gray	30	7.57	0.25	(R)
Fiberglass, Smooth, Black or Bronze	18	4.46	0.14	
Fiberglass, Regular				
Black, Bronze, or Gray	18	3.98	0.13	(R)
	35	6.51	0.21	

**Advice No. 17-06**

**Issued February 28, 2017**

**James F. Lobdell, Senior Vice President**

**Effective for service on and after March 31, 2017**

**SCHEDULE 91 (Continued)**

RATES FOR STANDARD POLES (Continued)

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Wood, Standard	30 to 35	\$ 5.08	\$ 0.16	(R)
Wood, Standard	40 to 55	6.63	0.22	(R)

RATES FOR CUSTOM LIGHTING

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>		
				<u>Option A</u>	<u>Option B</u>	
Special Acorn-Types						
HPS	100	9,500	43	\$ 8.00	\$ 1.94	(R)
HADCO Victorian, HPS	150	16,000	62	8.00	1.94	
	200	22,000	79	8.67	2.03	
	250	29,000	102	8.67	2.03	
HADCO Capitol Acorn, HPS	100	9,500	43	11.60	2.41	
	150	16,000	62	10.33	2.24	
	200	22,000	79	10.34	2.25	
	250	29,000	102	10.33	2.24	
Special Architectural Types						
HADCO Independence, HPS	100	9,500	43	8.14	1.94	
	150	16,000	62	8.14	1.94	
HADCO Techtra, HPS	100	9,500	43	16.50	3.06	
	150	16,000	62	16.28	3.03	
	250	29,000	102	16.10	3.00	
HADCO Westbrooke, HPS	70	6,300	30	10.55	2.27	
	100	9,500	43	10.12	2.21	
	150	16,000	62	14.68	2.81	
	200	22,000	79	10.30	2.24	
	250	29,000	102	10.87	2.31	



**SCHEDULE 91 (Continued)**

RATES FOR CUSTOM LIGHTING (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>		
				<u>Option A</u>	<u>Option B</u>	
Special Types						
Flood, Metal Halide	350	30,000	139	\$ 5.43	\$ 1.74	(R)
Flood, HPS	750	105,000	285	8.62	2.82	(R)
Option C Only **						
Ornamental Acorn Twin	85	9,600	64	*	*	
Ornamental Acorn	55	2,800	21	*	*	
Ornamental Acorn Twin	55	5,600	42	*	*	
Composite, Twin	140	6,815	54	*	*	
	175	9,815	66	*	*	

\* Not offered.

\*\* Rates are based on current kWh energy charges.

**RATES FOR CUSTOM POLES**

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>			
		<u>Option A</u>	<u>Option B</u>		
Aluminum, Regular	25	\$ 10.01	\$ 0.32	(R)	
	30	10.81	0.35		
	35	12.92	0.42		
Aluminum Davit	25	9.99	0.32		
	30	9.95	0.32		
	35	10.87	0.35		
	40	14.73	0.48		
Aluminum Double Davit	30	14.64	0.47		(R)

**SCHEDULE 91 (Continued)**

RATES FOR CUSTOM POLES (Continued)

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum, Fluted Ornamental	14	\$ 8.81	\$ 0.29	(R)
Aluminum, HADCO, Smooth Techtra Ornamental	18	17.32	0.56	
Aluminum, Fluted Ornamental	16	9.00	0.29	
Aluminum, HADCO, Fluted Westbrooke	18	17.36	0.56	
Aluminum, HADCO, Smooth Westbrooke	18	18.40	0.60	
Fiberglass, Fluted Ornamental Black	14	10.66	0.35	
Fiberglass, Anchor Base, Gray or Black	35	11.83	0.38	(R)

**SERVICE RATE FOR OBSOLETE LIGHTING**

The following equipment is not available for new installations under Options A and B. To the extent feasible, maintenance will be provided. Obsolete Lighting will be replaced with the Customer's choice of Standard or Custom equipment. The Customer will then be billed at the appropriate Standard or Custom rate. If an existing Mercury Vapor luminaire requires the replacement of a ballast, the unit will be replaced with a corresponding HPS unit.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>		
				<u>Option A</u>	<u>Option B</u>	
Cobrahead, Metal Halide	150	10,000	60	\$4.94	\$ 1.78	(R)
Cobrahead, Mercury Vapor	100	4,000	39	*	*	
	175	7,000	66	4.37	1.46	
	250	10,000	94	*	*	
	400	21,000	147	5.25	1.58	
	1,000	55,000	374	5.48	1.85	
Holophane Mongoose, HPS	150	16,000	62	8.39	1.99	
	250	29,000	102	7.84	1.92	
Special Box Similar to GE "Space-Glo"						
HPS	70	6,300	30	5.37	*	
Mercury Vapor	175	7,000	66	5.33	1.55	(R)

\* Not offered.

**SCHEDULE 91 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>		
				<u>Option A</u>	<u>Option B</u>	
Special Box, Anodized Aluminum Similar to GardCo Hub						
HPS - Twin	70	6,300	60	*	*	
HPS	70	6,300	30	*	*	
	100	9,500	43	*	\$ 1.89	(R)
	150	16,000	62	*	1.91	
	250	29,000	102	*	*	
	400	50,000	163	*	*	
Metal Halide	250	20,500	99	*	1.24	
	400	40,000	156	*	1.24	
Cobrahead, Metal Halide	175	12,000	71	*	1.65	
Flood, Metal Halide	400	40,000	156	\$ 5.62	1.80	
Cobrahead, Dual Wattage, HPS						
70/100 Watt Ballast	100	9,500	43	*	1.52	
100/150 Watt Ballast	100	9,500	43	*	1.52	
100/150 Watt Ballast	150	16,000	62	*	1.53	
Special Architectural Types Including Philips QL Induction Lamp Systems						
HADCO Victorian, QL	85	6,000	32	*	0.70	
	165	12,000	60	*	0.83	
HADCO Techtra, QL	165	12,000	60	17.55	1.09	
Special Architectural Types						
KIM SBC Shoebox, HPS	150	16,000	62	*	2.38	
KIM Archetype, HPS	250	29,000	102	*	2.43	
	400	50,000	163	*	2.12	
Special Acorn-Type, HPS	70	6,300	30	8.02	1.96	(R)
Special GardCo Bronze Alloy						
HPS	70	5,000	30	*	*	
Mercury Vapor	175	7,000	66	*	*	

\* Not offered.

**SCHEDULE 91 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates		
				Option A	Option B	
Early American Post-Top, HPS						
Black	70	6,300	30	\$ 4.73	\$ 1.49	(R)
Rectangle Type	200	22,000	79	*	*	
Incandescent	92	1,000	31	*	*	
	182	2,500	62	*	*	
Town and Country Post-Top						
Mercury Vapor	175	7,000	66	4.73	1.49	
Flood, HPS	70	6,300	30	4.32	1.41	
	100	9,500	43	4.31	1.51	
	200	22,000	79	5.45	1.63	
Cobrahead, HPS						
Power Door	310	37,000	124	5.48	1.91	(R)
Special Types Customer-Owned & Maintained						
Ornamental, HPS	100	9,500	43	*	*	
Twin Ornamental, HPS	Twin 100	9,500	86	*	*	
Compact Fluorescent	28	N/A	12	*	*	

\* Not offered.

**SCHEDULE 91 (Continued)**

**RATES FOR OBSOLETE LIGHTING POLES**

<u>Type of Pole</u>	<u>Poles Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum Post	30	\$ 6.03	*	(R)
Aluminum, Painted Ornamental	35	*	\$ 0.96	
Aluminum, Regular	16	6.03	0.20	
Bronze Alloy GardCo	12	*	0.18	
Concrete, Ornamental	35 or less	10.01	0.32	
Fiberglass, Direct Bury with Shroud	18	7.19	0.23	
Steel, Painted Regular **	25	10.01	0.32	
Steel, Painted Regular **	30	10.81	0.35	
Steel, Unpainted 6-foot Mast Arm **	30	*	0.32	
Steel, Unpainted 6-foot Davit Arm **	30	*	0.32	
Steel, Unpainted 8-foot Mast Arm **	35	*	0.35	
Steel, Unpainted 8-foot Davit Arm **	35	*	0.35	
Wood, Laminated without Mast Arm	20	4.46	0.14	
Wood, Laminated Street Light Only	20	4.46	*	
Wood, Curved Laminated	30	6.28	0.23	
Wood, Painted Underground	35	5.08	0.16	(R)

\* Not offered.

\*\* Maintenance does not include replacement of rusted steel poles.

**SPECIALTY SERVICES OFFERED**

Upon Customer request and subject to the Company's agreement, the Company will provide the following streetlighting services based on the Company's total costs including Company indirect charges:

- . Trimming of trees adjacent to streetlight equipment and circuits.
- . Arterial patrols to ensure correct operation of streetlights.
- . Painting or staining of wood and steel streetlight poles.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 92  
TRAFFIC SIGNALS  
(NO NEW SERVICE)  
STANDARD SERVICE  
(COST OF SERVICE)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments where funds for payment of Electricity are provided through taxation or property assessment for traffic signals and warning facilities in systems containing at least 50 intersections on public streets and highways. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Transmission and Related Services Charge</u>	0.139	¢ per kWh	(R)
<u>Distribution Charge</u>	2.790	¢ per kWh	(I)
<u>Energy Charge</u>	5.339	¢ per kWh	(R)

\* See Schedule 100 for applicable adjustments.

**ELECTION WINDOW**

Balance-of-Year Election Window

The Balance-of-Year Election Window begins at 8:00 a.m. on February 15<sup>th</sup> (or the following business day if the 15<sup>th</sup> falls on a weekend or holiday). The Window will remain open from 8:00 a.m. of the first day through 5:00 p.m. of the third business day of the Election Window.

Balance-of-Year Election Window, a Customer may notify the Company of its choice to move to Direct Access Service. For the February 15<sup>th</sup> election, the move is effective on the following April 1<sup>st</sup>. A Customer may not choose to move from an alternative option back to Cost of service during a Balance-of-Year Election Window.

**SCHEDULE 95 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS**

See Schedule 91 for Streetlight poles service options.

**MONTHLY RATE**

In addition to the service rates for Option A lights, all Customers will pay the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Transmission and Related Services Charge</u>	0.128 ¢ per kWh	(R)
<u>Distribution Charge</u>	6.510 ¢ per kWh	(I)
<u>Energy Charge</u>		
Cost of Service Option	5.129 ¢ per kWh	(R)

**NON-COST OF SERVICE OPTION**

Daily Price Option – Available only to Customers with an average load of five MW or greater on Schedules 91 and 95 and those customers that met the five MW or greater threshold prior to converting to lights from Schedule 91 to Schedule 95. This selection of this option applies to all luminaires served under Schedules 91 and 95. This option gives eligible Customers an option between a daily Energy price and a Cost of Service option for the Energy charge. In addition to the daily Energy price, the Customer will pay a Basic Charge of \$75 per month to help offset the costs of billing this option. The daily Energy price for all kWh will be the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Firm Index) plus 0.309¢ per kWh for wheeling, plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. (I)

Prices reported with no transaction volume or as “survey-based” will be considered reported. For the purposes of calculating the daily on- and off-peak usage, actual kWhs will be determined for each month, using Sunrise Sunset Tables with adjustments for typical photocell operation and 4,100 annual burning hours.

For Customers billed on the Daily Price Option, an average of the daily rates will be used to bill installations and removals that occur during the month. Any additional analysis of billing options and price comparisons beyond the monthly bill will be billed at a rate of \$100 per manhour.

Losses will be included by multiplying the applicable daily Energy price by 1.0685.

The Daily Price Option is subject to Schedule 128, Short Term Transition Adjustment.

**SCHEDULE 95 (Continued)**

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rate	Straight Time	Overtime <sup>(1)</sup>
	\$135.00 per hour	\$193.00 per hour

<sup>(1)</sup> Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

LED lighting is new to the Company and pricing is changing rapidly. The Company may adjust rates under this schedule based on actual frequency of maintenance occurrences and changes in material prices.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
Cobrahead Equivalent	37	2,530	13	\$ 2.89	
Cobrahead Equivalent	50	3,162	17	2.89	
Cobrahead Equivalent	52	3,757	18	3.22	
Cobrahead Equivalent	67	5,050	23	3.54	(R)
Cobrahead Equivalent	106	7,444	36	4.31	(I)
Cobrahead Equivalent	134	14,200	46	6.79	(R)
Cobrahead Equivalent	156	16,300	53	7.91	
Cobrahead Equivalent	176	18,300	60	8.32	
Cobrahead Equivalent	201	21,400	69	7.62	(R)



**SCHEDULE 95 (Continued)**

**RATES FOR DECORATIVE LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
Acorn LED	60	5,488	21	\$ 10.51	(R)
	70	4,332	24	12.15	
HADCO Acorn LED	70	5,120	24	16.00	
Westbrooke (Non-Flared) LED	36	3,369	12	13.61	
	53	5,079	18	14.34	
	69	6,661	24	13.96	
	85	8,153	29	14.97	
	136	12,687	46	16.99	
	206	18,159	70	16.71	
Westbrooke (Flared) LED	36	3,369	12	14.63	
	53	5,079	18	16.28	
	69	6,661	24	16.28	
	85	8,153	29	15.31	
	136	12,687	46	18.00	
	206	18,159	70	18.00	(R)
Post-Top, American Revolution LED	45	3,395	15	6.44	(I)
	72	4,409	25	5.93	(R)

**SPECIALTY SERVICES OFFERED**

Upon Customer request and subject to the Company's agreement, the Company will provide the following streetlighting services based on the Company's total costs including Company indirect charges:

- . Trimming of trees adjacent to streetlight equipment and circuits.
- . Arterial patrols to ensure correct operation of streetlights.
- . Painting or staining of wood and steel streetlight poles.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 122  
RENEWABLE RESOURCES AUTOMATIC ADJUSTMENT CLAUSE**

**PURPOSE**

This Schedule recovers the revenue requirements of qualifying Company-owned or contracted new renewable energy resource projects (including associated transmission) not otherwise included in rates. Additional new renewable projects may be incorporated into this schedule as they are placed in service. This adjustment schedule is implemented as an automatic adjustment clause as provided for under ORS 757.210 and Section 13 of the Oregon Renewable Energy Act (OREA).

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To all bills for Electricity Service except Schedules 76, 485, 489, 490, 491, 492, 495 and 576. This schedule is not applicable to direct access customers after December 31, 2010.

**ADJUSTMENT RATE**

The Adjustment Rate, applicable for service on and after the effective date of this schedule are:

<u>Schedule</u>		
7	0.000	¢ per kWh
15	0.000	¢ per kWh
32	0.000	¢ per kWh
38	0.000	¢ per kWh
47	0.000	¢ per kWh
49	0.000	¢ per kWh
75		
Secondary	0.000	¢ per kWh
Primary	0.000	¢ per kWh
Subtransmission	0.000	¢ per kWh
83	0.000	¢ per kWh
85		
Secondary	0.000	¢ per kWh
Primary	0.000	¢ per kWh

(R)

(R)

**SCHEDULE 122 (Continued)**

ADJUSTMENT RATE (Continued)

<u>Schedule</u>				
89				
Secondary	0.000	¢ per kWh		(R)
Primary	0.000	¢ per kWh		
Subtransmission	0.000	¢ per kWh		
90	0.000	¢ per kWh		
91	0.000	¢ per kWh		
92	0.000	¢ per kWh		
95	0.000	¢ per kWh		(R)

**ANNUAL REVENUE REQUIREMENTS**

The Annual Revenue Requirements of a qualifying project will include the fixed costs of the renewable resource and associated transmission (including return on and return of the capital costs), operation and maintenance costs, income taxes, property taxes, and other fees and costs that are applicable to the renewable resource or associated transmission. Until the dispatch benefits are included in the Annual Power Cost Update Schedule 125, the net revenue requirements of each project (fixed costs less market value of the energy produced by the renewable resource plus any power costs such as fuel, integration and wheeling costs) will be deferred and incorporated the following January 1 into the Schedule 122 rates. This balancing account will accrue interest at the Commission-authorized rate for deferred accounts. Each year by April 1, the Company will file an update to the revenue requirements of resources included in this schedule to recognize projected changes for the following calendar year.

**DEFERRAL MECHANISM**

For each calendar year that the Company anticipates that a new renewable resource will commence operation, the Company may file a deferral request the earlier of the resource online date or April 1. The deferral amount will be for the fixed revenue requirements of the resource less net dispatch benefits. For purposes of determining dispatch benefits, the forward curves used to set rates for the year under the Annual Power Cost Update will be used. The deferral will be amortized over the next calendar year in Schedule 122 unless otherwise approved by the Oregon Public Utility Commission (OPUC). The amortization of the deferred amount will not be subject to the provisions of ORS 757.259(5).

**SCHEDULE 123  
DECOUPLING ADJUSTMENT**

**PURPOSE**

This Schedule establishes balancing accounts and rate adjustment mechanisms to track and mitigate a portion of the transmission, distribution and fixed generation revenue variations caused by variations in applicable Customer Energy usage.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To all Residential and Nonresidential Customers located within the Company's service territory except those Nonresidential Customers whose load exceeded one aMW at a Point of Delivery during the prior calendar year or those Nonresidential Customers qualifying as a Self-Directing Customer. Customers so exempted will not be charged the prices contained in this schedule.

**DEFINITIONS**

For the purposes of this tariff, the following definition will apply:

**Energy Efficiency Measures (EEMs)** – Actions that enable customers to reduce energy use. EEMs can be behavioral or equipment-related.

**Self-Directing Customer (SDC)** - Pursuant to OAR 860-038-0480, to qualify to be a SDC, the Large Nonresidential Customer must have a load that exceeds one aMW at a Site as defined in Rule B and receive certification from the Oregon Department of Energy as an SDC.

**SALES NORMALIZATION ADJUSTMENT (SNA)**

The SNA reconciles on a monthly basis, for Customers served under Schedules 7, 32 and 532, differences between a) the monthly revenues resulting from applying distribution, transmission and fixed generation charges (Fixed Charge Energy Rate) of 9.158 cents/kWh for Schedule 7 (I) and 8.210 cents/kWh for Schedules 32 and 532 to weather-normalized kWh Energy sales, and (I) b) the Fixed Charge Revenues that would be collected by applying the Monthly Fixed Charge per Customer of \$74.73 per month for Schedule 7 and \$115.50 per month for Schedules 32 and 532 to the numbers of active Schedule 7 and Schedule 32 and 532 Customers, respectively, for (I) each month. For Schedule 7, a Secondary Fixed Charge equal to 69% of the Monthly Fixed (C) Charge will be used to calculate Fixed Charge Revenues for actual customer counts that exceed the projected customer counts used to establish base rates in a general rate review. (I) The Schedule 7 Secondary Fixed Charge is \$51.56.

### SCHEDULE 123 (Continued)

#### SALES NORMALIZATION ADJUSTMENT (SNA) (Continued)

The SNA will calculate monthly as the Fixed Charge Revenue less actual weather-adjusted revenues and will accrue to the SNA Balancing Account. The monthly amount accrued may be positive (an under-collection) or negative (an over-collection). The SNA is divided into sub-accounts so that net accruals for Schedule 7 will track separately from the net accruals for Schedules 32 and 532.

#### NONRESIDENTIAL LOST REVENUE RECOVERY ADJUSTMENT (LRRRA)

The Nonresidential Lost Revenue Recovery Adjustment is applicable to all customers except those served under Schedules 7, 32 and 532 or as otherwise exempted above. Nonresidential Lost Revenue Recovery amounts will be equal to the reduction in distribution, transmission, and fixed generation revenues due to the reduction in kWh sales as reported to the Company by the Energy Trust of Oregon, resulting from EEMs implemented during prior calendar years attributable to EEM funding incremental to Schedule 108, adjusted for EEM program kWh savings incorporated into the test year load forecast used to determine base rates. Also included are differences in actual energy savings from a test year forecast associated with the conversion to LED streetlighting in Schedule 95 reported by the Company. When base rates are adjusted in the future as a result of a general rate review, the test year load forecast used to determine new base rates will reflect all energy efficiency kWh savings that have been previously achieved. The cumulative kWh savings are eligible for Lost Revenue Recovery until new base rates are established as a result of a general rate review; the kWh base is then reset to equal the amount of kWh savings that accrue from EEMs following an adjustment in base rates.

The Lost Revenue Recovery Adjustment may be positive or negative. A negative Lost Revenue Recovery Adjustment for a given test year will occur if kWh savings reported by the Energy Trust of Oregon, plus the energy savings associated with the conversion to LED streetlighting in Schedule 95, are less than those estimated in setting base rates. A positive Lost Revenue Recovery Adjustment for a given test year will occur if kWh savings reported by the Energy Trust of Oregon, plus the energy savings associated with the conversion to LED streetlighting in Schedule 95, are greater than those estimated for the test year in setting base rates. The LRRRA for each year subsequent to the test year will incorporate incremental kWh savings reported by the Energy Trust of Oregon for that year.

For the purposes of this Schedule, the Lost Revenue Recovery Adjustment is the product of: (1) the reduction in kWh sales resulting from ETO-reported EEMs plus the energy savings associated with the conversion to LED streetlighting in Schedule 95, and (2) the weighted average of applicable retail base rates (the Lost Revenue Rate). Applicable base rates for Nonresidential Customers are defined as the schedule-weighted average of transmission, distribution, and fixed generation charges; including those contained in Schedule 122 and other applicable schedules. System usage or distribution charges will be adjusted to include only the recovery of Trojan Decommissioning expenses and the Customer Impact Offset. Franchise fee recovery is not included in the Lost Revenue Rate. The applicable Lost Revenue Rate is 6.472 cents per kWh.

(I)

### SCHEDULE 125 (Continued)

#### CHANGES IN NET VARIABLE POWER COSTS

Changes in NVPC for purposes of rate determination under this schedule are the projected NVPC as determined in the Annual Power Cost Update less the NVPC revenues that would occur at the NVPC prices determined in the Company's most recent general rate case, adjusted for a revenue sensitive cost factor of 1.0331. (R)

#### FILING AND EFFECTIVE DATE

On or before April 1<sup>st</sup> of each calendar year, the Company will file estimates of the adjustments to its NVPC to be effective on January 1<sup>st</sup> of the following calendar year.

On or before October 1<sup>st</sup> of each calendar year, the Company will file updated estimates with final planned maintenance outages, final load forecast, updated projections of gas and electric prices, power, and fuel contracts.

On November 15<sup>th</sup>, the Company will file the final estimate of NVPC and will calculate and file the final change in NVPC to be effective on the next January 1<sup>st</sup> with: 1) projected market electric and fuel prices based on the average of the Company's internally generated projections made during the period November 1<sup>st</sup> through November 7<sup>th</sup>, 2) load reductions from the October update resulting from additional participation in the Company's Long-Term Cost of Service Opt-out that occurs in September, 3) new market power and fuel contracts entered into since the previous updates, and 4) the final planned maintenance outages and load forecast from the October 1<sup>st</sup> filing.

#### RATE ADJUSTMENT

The rate adjustment will be based on the Adjusted NVPC less the NVPC revenues that would occur at the NVPC prices determined in the Company's most recent general rate case applied to forecast loads used to determine changes in Net Variable Power Costs. NVPC prices are defined as the price component that recovers the level of NVPC from the Company's most recent general rate case contained in each Schedule's Cost of Service energy prices.

**SCHEDULE 125 (Concluded)**

**ADJUSTMENT RATES**

Schedule		¢ per kWh	
7		0.000	(1)
15		0.000	
32		0.000	
38	Large Nonresidential	0.000	
47		0.000	
49		0.000	
75		0.000	
	Secondary	0.000 <sup>(1)</sup>	
	Primary	0.000 <sup>(1)</sup>	
	Subtransmission	0.000 <sup>(1)</sup>	
83		0.000	
85		0.000	
	Secondary	0.000	
	Primary	0.000	
89		0.000	
	Secondary	0.000	
	Primary	0.000	
	Subtransmission	0.000	
90		0.000	
91		0.000	
92		0.000	
95		0.000	(1)

(1) Applicable only to the Baseline and Scheduled Maintenance Energy.

**SPECIAL CONDITIONS**

- Costs recovered through this schedule will be allocated to each schedule using the applicable schedule's forecasted energy on the basis of an equal percent of generation revenue applied on a cents per kWh basis to each applicable rate schedule.

**SCHEDULE 126  
ANNUAL POWER COST VARIANCE MECHANISM**

**PURPOSE**

To recognize in rates part of the difference for a given year between Actual Net Variable Power Costs and the Net Variable Power Costs forecast pursuant to Schedule 125, Annual Power Cost Update and in accordance with Commission Order No. 07-015. This schedule is an "automatic adjustment clause" as defined in ORS 757.210.

**APPLICABLE**

To all Customers for Electricity Service except those who were served on Schedule 76R and 576R, 485, 489, 490, 491, 492, 495, 515, 532, 538, 549, 583, 585, 589, 591, 592 and 595, or served under Schedules 83, 85, 89 or 90 Daily Price Option for the entire calendar year that the Annual Power Cost Variance accrued. Customers served on Schedules 538, 583, 585, 589, 590, 591, 592 and 595 who received the Schedule 128 Balance of Year Transition Adjustment will be subject to this adjustment.

**ANNUAL POWER COST VARIANCE**

Subject to the Earnings Test, the Annual Power Cost Variance (PCV) is 90% of the amount that the Annual Variance exceeds either the Positive Annual Power Cost Deadband for a Positive Annual Variance or the Negative Annual Power Cost Deadband for a Negative Annual Variance.

**POWER COST VARIANCE ACCOUNT**

The Company will maintain a PCV Account to record Annual Variance amounts. The Account will contain the difference between the Adjustment Amount and amounts credited to or collected from Customers. This account will accrue interest at the Commission-authorized rate for deferred accounts. At the end of each year the Adjustment Amount for the calendar year will be adjusted by 50% of the annual interest calculated at the Commission-authorized rate. This amount will be added to the Adjustment Account.

Any balance in the PCV Account will be amortized to rates over a period determined by the Commission. Annually, the Company will propose to the Commission PCV Adjustment Rates that will amortize the PCV to rates over a period recommended by the Company. The amount accruing to Customers, whether positive or negative, will be multiplied by a revenue sensitive factor of 1.0331 to account for franchise fees, uncollectibles, and OPUC fees. (R)

**EARNINGS TEST**

The recovery from or refund to Customers of any Adjustment Amount will be subject to an earnings review for the year that the power costs were incurred. The Company will recover the Adjustment Amount to the extent that such recovery will not cause the Company's Actual Return on Equity (ROE) for the year to exceed its Authorized ROE minus 100 basis points. The Company will refund the Adjustment Amount to the extent that such refunding will not cause the Company's Actual Return on Equity (ROE) for the year to fall below its Authorized ROE plus 100 basis points.



### Schedule 126 (Continued)

#### DEFINITIONS (Continued)

##### **Net Variable Power Costs (NVPC)**

The Net Variable Power Costs (NVPC) represents the power costs for Energy generated and purchased. NVPC are the net cost of fuel and emission control chemicals, fuel and emission control chemical transportation, power contracts, transmission/wheeling, wholesale sales, hedges, options and other financial instruments incurred to serve retail load. For purposes of calculating the NVPC, the following adjustments will be made:

- Exclude BPA payments in lieu of Subscription Power.
- Exclude the monthly FASB 133 mark-to-market activity.
- Exclude any cost or revenue unrelated to the period.
- Include as a cost all losses that the Company incurs, or is reasonably expected to incur, as a result of any non-retail Customer failing to pay the Company for the sale of power during the deferral period.
- Include fuel costs and revenues associated with steam sales from the Coyote Springs I Plant.
- Include gas resale revenues.
- Include Energy Charge revenues from Schedules 76R, 38, 83, 85, 89, 90, and 91 Energy pricing options other than Cost of Service and the Energy Charge revenues from the Market Based Pricing Option from Schedules 485, 489, 490, 491, 492, and 495 as an offset to NVPC.
- NVPC shall be adjusted as needed to comply with Order 07-015 that states that ancillary services, the revenues from sales as well as the costs from the services, should also be taken into account in the mechanism.
- Actual NVPC will be increased to include the value of the energy associated with those Customers that received the Schedule 128 Balance of Year Transition Adjustment for the period during the year that the Customers received the Schedule 128 adjustment.
- Include reciprocating engine lubrication oil expenses.
- Include actual State and Federal Production Tax Credits.

##### **ADJUSTMENT AMOUNT**

The amount accruing to the Power Cost Variance Account, whether positive or negative will be multiplied by a revenue sensitive factor of 1.0331 to account for franchise fees, uncollectables, and OPUC fees. (R)

The Power Cost Adjustment Rate shall be set at level such that the projected amortization for 12 month period beginning with the implementation of the rate is no greater than six percent (6%) of annual Company retail revenues for the preceding calendar year.

##### **TIME AND MANNER OF FILING**

As a minimum, on July 1<sup>st</sup> of the following year (or the next business day if the 1<sup>st</sup> is a weekend or holiday), the Company will file with the Commission recommended adjustment rates for the next calendar year.

**SCHEDULE 128  
SHORT-TERM TRANSITION ADJUSTMENT**

**PURPOSE**

The purpose of this Schedule is to calculate the Short-Term Transition Adjustment to reflect the results of the ongoing valuation under OAR 860-038-0140.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To all Nonresidential Customers served who receive service at Daily pricing (other than Cost of Service) on Schedules 32, 38, 75, 83, 85, 89, 90, 91 or 95 or Direct Access service on Schedules 515, 532, 538, 549, 575, 583, 585, 589, 590, 591, 592 and 595. This Schedule is not applicable to Customers served on Schedules 485, 489, 490, 491, 492 and 495.

**SHORT-TERM TRANSITION ADJUSTMENT**

The Short-Term Transition Adjustment will reflect the difference between the Energy Charge(s) under the Cost of Service Option including Schedule 125 and the market price of power for the period of the adjustment applied to the load shape of the applicable schedule.

**ANNUAL SHORT-TERM TRANSITION ADJUSTMENT RATE**

For Customers who have made a service election other than Cost of Service in 2017, the Annual Short-Term Transition Adjustment Rate will be applied to their bills for service effective on and after January 1, 2018: (C)

Schedule		Annual ¢ per kWh <sup>(1)</sup>	(R)	
32		3.377		
38		2.821		
75	Secondary	2.747 <sup>(2)</sup>		
	Primary	2.696 <sup>(2)</sup>		
	Subtransmission	2.716 <sup>(2)</sup>		
83		3.285		
85	Secondary	3.104		
	Primary	3.014		
				(R)

(1) Not applicable to Customers served on Cost of Service.  
(2) Applicable only to the Baseline and Scheduled Maintenance Energy.

**SCHEDULE 128 (Continued)**

ANNUAL SHORT-TERM TRANSITION ADJUSTMENT RATE (Continued)

Schedule		Annual ¢ per kWh <sup>(1)</sup>	
89	Secondary	2.747	(R)
	Primary	2.696	
	Subtransmission	2.716	
90		2.627	
91		2.492	
95		2.492	
515		2.492	
532		3.377	
538		2.821	
549		4.325	
575	Secondary	2.747 <sup>(2)</sup>	
	Primary	2.696 <sup>(2)</sup>	
	Subtransmission	2.716 <sup>(2)</sup>	
583		3.285	
585	Secondary	3.104	
	Primary	3.014	
589	Secondary	2.747	
	Primary	2.696	
	Subtransmission	2.716	
590		2.627	
591		2.492	
592		2.553	
595		2.492	(R)

(1) Not applicable to Customers served on Cost of Service.

(2) Applicable only to the Baseline and Scheduled Maintenance Energy.

**ANNUAL SHORT-TERM TRANSITION ADJUSTMENT REVISIONS**

The Annual Short-Term Transition Adjustment rate will be filed on November 15<sup>th</sup> (or the next business day if the 15<sup>th</sup> is a weekend or holiday) to be effective for service on and after January 1<sup>st</sup> of the next year. Indicative, non-binding estimates for the Annual Short-Term Transition Adjustment and Cost-of-Service Energy Prices will be posted by the Company by September 1 and then again one week prior to the filing date. These prices will be for informational purposes only and are not to be considered the adjustment rates.

**SCHEDULE 129 (Continued)**

TRANSITION COST ADJUSTMENT (Continued)  
Minimum Five Year Opt-Out

For Enrollment Period L (2013), the Transition Cost Adjustment will be:

Period	Sch. 485 Secondary Voltage ¢ per kWh	Sch. 485 Primary Voltage ¢ per kWh	Sch. 489 Secondary Voltage ¢ per kWh	Sch. 489 Primary Voltage ¢ per kWh	Sch. 489 Subtransmission Voltage ¢ per kWh
2014	1.992	1.956	1.398	1.728	1.709
2015	1.718	1.695	1.113	1.466	1.450
2016	1.482	1.466	0.860	1.239	1.226
2017	1.228	1.223	0.589	0.997	0.987
2018	1.154	1.147	0.483	0.921	0.914
After 2018	0.000	0.000	0.000	0.000	0.000

Commencing with enrollment Period M, the Schedule 129 Transition Cost Adjustment will be updated to reflect OPUC-approved changes in fixed generation costs during the five-year period.

For Enrollment Period M (2014), the current Transition Cost Adjustments are:

Period	Sch. 485 Sec. Vol. ¢ per kWh	Sch. 485 Pri. Vol. ¢ per kWh	Sch. 489 Sec. Vol. ¢ per kWh	Sch. 489 Pri. Vol. ¢ per kWh	Sch. 489 Sub. Vol. ¢ per kWh	Sch. 490 Pri. Vol. ¢ per kWh	Schs. 491/492/495 ¢ per kWh
2015	1.712	1.704	1.443	1.415	1.383	1.381	1.311
2016	2.172	2.151	1.890	1.854	1.824	1.798	1.789
2017	2.196	2.174	1.913	1.876	1.846	1.820	1.811
2018	2.448	2.426	2.125	2.079	2.038	2.006	1.894
2019	2.448	2.426	2.125	2.079	2.038	2.006	1.894
After 2019	0.000	0.000	0.000	0.000	0.000	0.000	0.000

( )  
( )

**SCHEDULE 129 (Continued)**

TRANSITION COST ADJUSTMENT (Continued)  
Minimum Five Year Opt-Out

Commencing with enrollment Period M, the Schedule 129 Transition Cost Adjustment will be updated to reflect OPUC-approved changes in fixed generation costs during the five-year period.

For Enrollment Period N (2015), the current Transition Cost Adjustments are:

Period	Sch. 485 Sec. Vol. ¢ per kWh	Sch. 485 Pri. Vol. ¢ per kWh	Sch. 489 Sec. Vol. ¢ per kWh	Sch. 489 Pri. Vol. ¢ per kWh	Sch. 489 Sub. Vol. ¢ per kWh	Sch. 490 Pri. Vol. ¢ per kWh	Schs. 491/492/495 ¢ per kWh
2016	2.866	2.832	2.695	2.647	2.590	2.295	2.455
2017	2.890	2.855	2.718	2.669	2.612	2.317	2.477
2018	3.142	3.107	2.930	2.872	2.804	2.503	2.560
2019	3.142	3.107	2.930	2.872	2.804	2.503	2.560
2020	3.142	3.107	2.930	2.872	2.804	2.503	2.560
After 2020	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1)  
(1)

For Enrollment Period O (2016), the current Transition Cost Adjustments are:

Period	Sch. 485 Sec. Vol. ¢ per kWh	Sch. 485 Pri. Vol. ¢ per kWh	Sch. 489 Sec. Vol. ¢ per kWh	Sch. 489 Pri. Vol. ¢ per kWh	Sch. 489 Sub. Vol. ¢ per kWh	Sch. 490 Pri. Vol. ¢ per kWh	Schs. 491/492/495 ¢ per kWh
2017	3.015	2.963	2.854	2.803	2.739	2.431	2.586
2018	3.204	3.153	3.001	2.948	2.874	2.559	2.612
2019	3.204	3.153	3.001	2.948	2.874	2.559	2.612
2020	3.204	3.153	3.001	2.948	2.874	2.559	2.612
2021	3.204	3.153	3.001	2.948	2.874	2.559	2.612
After 2021	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1)  
(1)

**SCHEDULE 129 (Concluded)**

SPECIAL CONDITIONS (Continued)

3. In determining changes in fixed generation revenues from movement to or from Schedules 485, 489, 490, 491, 492, and 495, the following factors will be used:

Schedule		¢ per kWh	
85	Secondary	3.997	(l)
	Primary	3.927	
89	Secondary	3.745	
	Primary	3.676	
	Subtransmission	3.627	
90		3.622	
91		3.474	
92		3.474	
95		3.474	(l)

**TERM**

The term of applicability under this schedule will correspond to a Customer's term of service under Schedules 485, 489, 490, 491, 492 or 495.

**SCHEDULE 146  
COLSTRIP POWER PLANT  
OPERATING LIFE ADJUSTMENT**

**PURPOSE**

This schedule establishes the mechanism to implement in rates the Company's share of the revenue requirement effect of the change in the Colstrip Power Plant Units 3 and 4 and associated common facilities currently assumed end of depreciable life year from 2042 to 2030 as specified in 2016 Oregon Laws, Chapter 28 (SB 1547), Section 1. This schedule is implemented as an "automatic adjustment clause" as defined in ORS 757.210.

**APPLICABLE**

To all bills for Electricity Service except Schedules 76R, 485, 489, 490, 491, 492, 495 and 576R.

**ADJUSTMENT RATES**

Schedule 146 Adjustment Rates will be set based on an equal percent of Energy Charge revenues applicable at the time of any filing that revises rates pursuant to this schedule.

<u>Schedule</u>	<u>Adjustment Rate</u>	<u>ϕ per kWh</u>	(R)	
7	0.000	ϕ per kWh	(R)	
15/515	0.000	ϕ per kWh		
32/532	0.000	ϕ per kWh		
38/538	0.000	ϕ per kWh		
47	0.000	ϕ per kWh		
49/549	0.000	ϕ per kWh		
75/575				
Secondary	0.000	ϕ per kWh		
Primary	0.000	ϕ per kWh		
Subtransmission	0.000	ϕ per kWh		
83/583	0.000	ϕ per kWh		
85/585				
Secondary	0.000	ϕ per kWh		
Primary	0.000	ϕ per kWh		
89/589				
Secondary	0.000	ϕ per kWh		
Primary	0.000	ϕ per kWh		
Subtransmission	0.000	ϕ per kWh		(R)

**SCHEDULE 146 (Concluded)**

**ADJUSTMENT RATE (Continued)**

<u>Schedule</u>	<u>Adjustment Rate</u>		(R)
90/590	0.000	¢ per kWh	
91/591	0.000	¢ per kWh	
92/592	0.000	¢ per kWh	
95/595	0.000	¢ per kWh	(R)

**DETERMINATION OF ADJUSTMENT AMOUNT**

Any revision to this schedule's Adjustment Rates requires Commission authorization (by order, approval of a filing, acknowledgement of an Integrated Resource Plan's Action Plan, or approval of a depreciation study) to revise for rate setting and accounting purposes, the end of depreciable life assumption of 2042 for the Colstrip Power Plant Units 3 and 4 and associated common facilities. The revised Adjustment Rates will be set to recover an Adjustment Amount reflecting the change in depreciation revenue requirements.

The Adjustment Amount is the difference between the Colstrip Power Plant Units 3 and 4 and associated common facilities depreciation/amortization revenue requirement for the year 2017 as determined in UE 294 that reflects a plant end of depreciable life date of 2042, and the same depreciation/amortization revenue requirement determination using a plant end of depreciable life assumption of 2030. The depreciation/amortization revenue requirement change computation will use the Commission-authorized tax rates, revenue sensitive cost rates, rate of return, and return on equity rates. Only changes to depreciation expense, amortization expense and related Schedule M and rate base adjustments as of the date of the filing revisions to this rate schedule are included in the depreciation/amortization revenue requirements.

The Adjustment Rates will be updated annually to reflect the subsequent year's change in the Colstrip Power Plant Units 3 and 4 depreciation revenue requirement, if the Company has not incorporated the revised depreciable life into base rates in a general rate case or other proceeding.

The docket reference numbers and dates in this schedule will be revised as necessary to a subsequent docket if no change to the Colstrip Power Plant Units 3 and 4 and associated common facilities depreciable life occurs prior to a subsequent general rate case order.

**TERM**

This schedule will terminate at the date that base rates include the revised end of life assumption or when all remaining investment in the Colstrip Power Plant Units 3 and 4 and associated facilities have been recovered.



**SCHEDULE 485 (Continued)**

**CHANGE IN APPLICABILITY**

If a Customer's usage changes such that their facility capacity falls below 201 kW, they will have their service terminated under this schedule and will be moved to an otherwise applicable schedule.

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges at the applicable Delivery Voltage per POD\*:

	<u>Delivery Voltage</u>		
	<u>Secondary</u>	<u>Primary</u>	
<u>Basic Charge</u>	\$530.00	\$490.00	(I)
<u>Distribution Charges**</u>			
The sum of the following:			
per kW of Facility Capacity			
First 200 kW	\$3.50	\$3.42	(I)
Over 200 kW	\$2.60	\$2.52	
per kW of monthly On-Peak Demand	\$2.84	\$2.76	(I)
 <u>System Usage Charge</u>			
per kWh	0.012 ¢	0.010 ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

### SCHEDULE 485 (Continued)

#### MARKET BASED PRICING OPTION (Continued)

##### Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

##### Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(I)

##### Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

#### FACILITY CAPACITY

The Facility Capacity will be the average of the two greatest non-zero monthly Demands established anytime during the 12-month period which includes and ends with the current Billing Period.

#### MINIMUM CHARGE

The minimum charge will be the Basic and Distribution Charges. In addition, the Company may require the Customer to execute a written agreement specifying a higher minimum charge or minimum Facility Capacity and/or Demand, if necessary, to justify the Company's investment in Facilities. The minimum monthly On-Peak Demand (in kW) will be 100 kW for primary voltage service.

**SCHEDULE 489 (Continued)**

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges at the applicable Delivery Voltage per POD\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,350.00	\$1,910.00	\$4,080.00	(l)
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.65	\$1.61	\$1.61	
Over 4,000 kW	\$1.34	\$1.30	\$1.30	
per kW of monthly On-Peak Demand	\$2.84	\$2.76	\$1.36	(l)
<u>System Usage Charge</u>				
per kWh	0.102 ¢	0.101 ¢	0.100 ¢	(l)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

**SCHEDULE 489 (Continued)**

**MARKET BASED PRICING OPTION (Continued)**

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(1)

Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

**MINIMUM CHARGE**

The minimum charge will be the Basic and Distribution Charges. In addition, the Company may require the Customer to execute a written agreement specifying a higher minimum charge or minimum Facility Capacity and/or Demand, if necessary, to justify the Company's investment in Facilities. The minimum Facility Capacity and Demand (in kW) will be 200 kW and 4,000 kW for primary voltage and subtransmission voltage service respectively.

**ON AND OFF PEAK HOURS**

On-peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 490 (Continued)**

**MONTHLY RATE**

The Monthly Rate will be the sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$5,600.00	(R)
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.48	(I)
Over 4,000 kW	\$1.17	(I)
per kW of monthly On-Peak Demand	\$2.76	(I)
<u>System Usage Charge</u>		
per kWh	(0.042) ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

**SCHEDULE 490 (Continued)**

MARKET BASED PRICING OPTION (Continued)

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(I)

Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

**MINIMUM CHARGE**

The minimum charge will be the Basic and Distribution Charges. In addition, the Company may require the Customer to execute a written agreement specifying a higher minimum charge or minimum Facility Capacity and/or Demand, if necessary, to justify the Company's investment in Facilities. The minimum Facility Capacity and Demand (in kW) will be 200 kW and 4,000 kW for primary voltage and subtransmission voltage service respectively.

**ON AND OFF PEAK HOURS**

On-peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 491 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS (Continued)**  
Option B – Pole maintenance (Continued)

Emergency Pole Replacement and Repair

The Company will repair or replace damaged streetlight poles that have been damaged due to the acts of vandalism, damage claim incidences and storm related events that cause a pole to become structurally unsound at no additional cost to the customer.

Without notice to the Customer, individual poles that are damaged or destroyed by unexpected events will be replaced on determination that the pole is unfit for further use as soon as reasonably possible. Replacement is subject to the Company's operating schedules and requirements.

Special Provisions for Option B - Poles

1. If damage occurs to any streetlighting pole more than two times in any 12-month period measured from the first incidence of damage that requires replacement, the Customer will be responsible to pay for future installations or mutually agree with the Company and pay to have the pole either completely removed or relocated.
2. Non-Standard or Custom poles are provided at the Company's discretion to allow greater flexibility in the choice of equipment. The Company will not maintain an inventory of this equipment and thus delays in maintenance may occur. The Company will order and replace the equipment subject to availability since non-standard and custom equipment is subject to obsolescence. The Customer will pay for any additional cost to the Company for ordering non-standard equipment.

**MONTHLY RATE**

The service rates for Option A and B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

Distribution Charge

6.374 ¢ per kWh

(I)

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

**SCHEDULE 491 (Continued)**

MARKET BASED PRICING OPTION (Continued)

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(1)

Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

**ON AND OFF PEAK HOURS**

On-peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**LOSSES**

The following adjustment factors will be used where losses are to be included in the energy charges:

Secondary Delivery Voltage	1.0685
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**SCHEDULE 491 (Continued)**

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rates	Straight Time	Overtime <sup>(1)</sup>
	\$135.00 per hour	\$193.00 per hour

(1) Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING  
High-Pressure Sodium (HPS) Only – Service Rates**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>			
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>	
Cobrahead Power Doors **	70	6,300	30	*	\$ 3.18	\$ 1.91	(I)
	100	9,500	43	*	4.01	2.74	
	150	16,000	62	*	5.23	3.95	
	200	22,000	79	*	6.35	5.04	
	250	29,000	102	*	7.79	6.50	
	400	50,000	163	*	11.72	10.39	
Cobrahead, Non-Power Door	70	6,300	30	\$ 6.32	3.41	1.91	
	100	9,500	43	7.15	4.24	2.74	
	150	16,000	62	8.47	5.46	3.95	
	200	22,000	79	10.28	6.61	5.04	
	250	29,000	102	11.62	8.05	6.50	
	400	50,000	163	15.58	11.95	10.39	
Flood	250	29,000	102	11.90	8.08	6.50	
	400	50,000	163	15.79	11.97	10.39	
Early American Post-Top	100	9,500	43	7.53	4.29	2.74	
Shoebox (Bronze color, flat Lens, or drop lens, multi-volt)	70	6,300	30	7.64	3.59	1.91	
	100	9,500	43	8.16	4.38	2.74	
	150	16,000	62	9.69	5.63	3.95	

\* Not offered.

\*\* Service is only available to customers with total power doors luminaires in excess of 2,500.

**SCHEDULE 491 (Continued)**

**RATES FOR STANDARD POLES**

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Fiberglass, Black, Bronze or Gray	20	\$ 4.46	\$ 0.14	(R)
Fiberglass, Black or Bronze	30	7.03	0.23	
Fiberglass, Gray	30	7.57	0.25	
Fiberglass, Smooth, Black or Bronze	18	4.46	0.14	
Fiberglass, Regular	18	3.98	0.13	
Black, Bronze, or Gray	35	6.51	0.21	
Wood, Standard	30 to 35	5.08	0.16	
Wood, Standard	40 to 55	6.63	0.22	(R)

**RATES FOR CUSTOM LIGHTING**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>					
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>			
Special Acorn-Types									
HPS	100	9,500	43	\$ 10.74	\$ 4.68	\$ 2.74	(I)	(I)	(I)
HADCO Victorian, HPS	150	16,000	62	11.95	5.89	3.95			
	200	22,000	79	13.71	7.07	5.04			
	250	29,000	102	15.17	8.53	6.50			
HADCO Capitol Acorn, HPS	100	9,500	43	14.34	5.15	2.74			
	150	16,000	62	14.28	6.19	3.95	(I)		
	200	22,000	79	15.38	7.29	5.04	(R)		
	250	29,000	102	16.83	8.74	6.50	(I)		
Special Architectural Types									
HADCO Independence, HPS	100	9,500	43	10.88	4.68	2.74	(R)		
	150	16,000	62	12.09	5.89	3.95	(I)		
HADCO Techtra, HPS	100	9,500	43	19.24	5.80	2.74	(R)		
	150	16,000	62	20.23	6.98	3.95	(R)		
	250	29,000	102	22.60	9.50	6.50	(I)		
HADCO Westbrooke, HPS	70	6,300	30	12.46	4.18	*	(R)		
	100	9,500	43	12.86	4.95	2.74	(R)	(I)	(I)

\* Not offered.

**SCHEDULE 491 (Continued)**

**RATES FOR CUSTOM LIGHTING (Continued)**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>			
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>	
HADCO Westbrooke, HPS	150	16,000	62	\$ 18.63	\$ 6.76	\$ 3.95	(I)
	200	22,000	79	15.34	7.28	5.04	
	250	29,000	102	17.37	8.81	6.50	
Special Types							
Flood, Metal Halide	350	30,000	139	14.29	10.60	8.86	
Flood, HPS	750	105,000	285	26.79	20.99	18.17	
Option C Only **							
Ornamental Acorn Twin	85	9,600	64	*	*	4.08	
Ornamental Acorn	55	2,800	21	*	*	1.34	
Ornamental Acorn Twin	55	5,600	42	*	*	2.68	
Composite, Twin	140	6,815	54	*	*	3.44	
	175	9,815	66	*	*	4.21	(I)

**RATES FOR CUSTOM POLES**

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum, Regular	25	\$ 10.01	\$ 0.32	(R)
	30	10.81	0.35	
	35	12.92	0.42	
Aluminum Davit	25	9.99	0.32	
	30	9.95	0.32	
	35	10.87	0.35	
	40	14.73	0.48	
Aluminum Double Davit	30	14.64	0.47	
Aluminum, Fluted Ornamental	14	8.81	0.29	(R)

\* Not offered.

\*\* Rates are based on current kWh energy charges.

**SCHEDULE 491 (Continued)**

**RATES FOR CUSTOM POLES (Continued)**

<u>Type of Pole</u>	<u>Pole Length</u> (feet)	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum, HADCO, Smooth Techtra Ornamental	18	\$ 17.32	\$ 0.56	(R)
Aluminum, Fluted Ornamental	16	9.00	0.29	
Aluminum, HADCO, Fluted Westbrooke	18	17.36	0.56	
Aluminum, HADCO, Smooth Westbrooke	18	18.40	0.60	
Fiberglass, Fluted Ornamental Black	14	10.66	0.35	
Fiberglass, Anchor Base, Gray or Black	35	11.83	0.38	

**SERVICE RATE FOR OBSOLETE LIGHTING**

The following equipment is not available for new installations under Options A and B. To the extent feasible, maintenance will be provided. Obsolete Lighting will be replaced with the Customer's choice of Standard or Custom equipment. The Customer will then be billed at the appropriate Standard or Custom rate. If an existing mercury vapor luminaire requires the replacement of a ballast, the unit will be replaced with a corresponding HPS unit.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>			
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>	
Cobrahead, Metal Halide	150	10,000	60	\$ 8.76	\$ 5.60	\$ 3.82	(I)
Cobrahead, Mercury Vapor	100	4,000	39	*	*	2.49	
	175	7,000	66	8.58	5.67	4.21	
	250	10,000	94	*	*	5.99	
	400	21,000	147	14.62	10.95	9.37	
	1,000	55,000	374	29.32	25.69	23.84	
Holophane Mongoose,	150	16,000	62	12.34	5.94	3.95	
HPS	250	29,000	102	14.34	8.42	*	(I)

\* Not offered.

**SCHEDULE 491 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates		
				Option A	Option B	Option C
Special Box Similar to GE "Space-Glo"						
HPS	70	6,300	30	\$ 7.28	*	*
Mercury Vapor	175	7,000	66	9.54	\$ 5.76	\$ 4.21
Special box, Anodized Aluminum						
Similar to GardCo Hub						
HPS	Twin 70	6,300	60	*	*	3.82
	70	6,300	30	*	*	1.91
	100	9,500	43	*	4.63	2.74
	150	16,000	62	*	5.86	3.95
	250	29,000	102	*	*	6.50
	400	50,000	163	*	*	10.39
Metal Halide	250	20,500	99	*	7.55	6.31
	400	40,000	156	*	11.18	*
Cobrahead, Metal Halide	175	12,000	71	*	6.18	4.53
Flood, Metal Halide	400	40,000	156	15.56	11.74	9.94
Cobrahead, Dual Wattage HPS						
	70/100 Watt Ballast	100	9,500	43	*	4.26
	100/150 Watt Ballast	100	9,500	43	*	4.26
	100/150 Watt Ballast	150	16,000	62	*	5.48
Special Architectural Types						
	KIM SBC Shoebox, HPS	150	16,000	62	*	6.33
	KIM Archetype, HPS	250	29,000	102	*	8.93
		400	50,000	163	*	12.51

(I) | (I)

\* Not offered

**SCHEDULE 491 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates			(R)	(I)
				Option A	Option B	Option C		
Special Acorn-Type, HPS	70	6,300	30	\$ 9.93	\$ 3.87	*		
Special GardCo Bronze Alloy								
HPS	70	5,000	30	*	*	\$ 1.91		
Mercury Vapor	175	7,000	66	*	*	4.21		
Early American Post-Top, HPS								
Black	70	6,300	30	6.64	3.40	1.91		
Rectangle Type	200	22,000	79	*	*	5.04		
Incandescent	92	1,000	31	*	*	1.98		
	182	2,500	62	*	*	3.95		
Town and Country Post-Top								
Mercury Vapor	175	7,000	66	8.94	5.70	4.21		
Flood, HPS	70	6,300	30	6.23	3.32	*		
	100	9,500	43	7.05	4.25	2.74		
	200	22,000	79	10.49	6.67	5.04		
Cobrahead, HPS								
Power Door	310	37,000	124	13.38	9.81	7.90		
Special Types Customer-Owned & Maintained								
Ornamental, HPS	100	9,500	43	*	*	2.74		
Twin ornamental, HPS	Twin 100	9,500	86	*	*	5.48		
Compact Fluorescent	28	N/A	12	*	*	0.76		(I)

\* Not offered.

**SCHEDULE 491 (Continued)**

**RATES FOR OBSOLETE LIGHTING POLES**

<u>Type of Pole</u>	<u>Poles Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum Post	30	\$ 6.03	*	(R)
Aluminum, Painted Ornamental	35	*	\$ 0.96	
Aluminum, Regular	16	6.03	0.20	
Bronze Alloy GardCo	12	*	0.18	
Concrete, Ornamental	35 or less	10.01	0.32	
Fiberglass, Direct Bury with Shroud	18	7.19	0.23	
Steel, Painted Regular **	25	10.01	0.32	
Steel, Painted Regular **	30	10.81	0.35	
Steel, Unpainted 6-foot Mast Arm **	30	*	0.32	
Steel, Unpainted 6-foot Davit Arm **	30	*	0.32	
Steel, Unpainted 8-foot Mast Arm **	35	*	0.35	
Steel, Unpainted 8-foot Davit Arm **	35	*	0.35	
Wood, Laminated without Mast Arm	20	4.46	0.14	
Wood, Laminated Street Light Only	20	4.46	*	
Wood, Curved Laminated	30	6.28	0.23	
Wood, Painted Underground	35	5.08	0.16	(R)

\* Not offered.

\*\* Maintenance does not include replacement of rusted steel poles.

**SERVICE RATES FOR ALTERNATIVE LIGHTING**

The purpose of this series of luminaires is to provide lighting utilizing the latest in technological advances in lighting equipment. The Company does not maintain an inventory of this equipment, and so delays with maintenance are likely. This equipment is more subject to obsolescence since it is experimental and yet to be determined reliable or cost effective. The Company will order and replace the equipment subject to availability.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>					
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>			
Special Architectural Types Including Philips QL Induction Lamp Systems									
HADCO Victorian, QL	85	6,000	32	*	\$ 2.74	\$ 2.04		(I)	(I)
	165	12,000	60	*	4.65	3.82			
	165	12,000	60	\$ 21.37	4.91	3.82	(R)	(I)	(I)

**Advice No. 17-06**  
**Issued February 28, 2017**  
**James F. Lobdell, Senior Vice President**

**Effective for service**  
**on and after March 31, 2017**

**SCHEDULE 492  
TRAFFIC SIGNALS  
COST OF SERVICE OPT-OUT**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments served on Schedule 92, who purchase Electricity from an Electricity Service Supplier (ESS) for traffic signals and warning facilities in systems containing at least 500 intersections on public streets and highways, where funds for payment of Electricity are provided through taxation or property assessment. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001. Service under this schedule is limited to the first 300 MWa that applies to Schedules 485, 489, 490, 491, 492, and 495

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The charge per Point of Delivery (POD)\* is:

Distribution Charge	2.648 ¢ per kWh	(l)
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\* See Schedule 100 for applicable adjustments.

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.



**SCHEDULE 492 (Continued)**

MARKET BASED PRICING OPTION (Continued)

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(I)

Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

**ON AND OFF PEAK HOURS**

On-peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**LOSSES**

The following adjustment factors will be used where losses are to be included in the energy charges:

Secondary Delivery Voltage	1.0685
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**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 495 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS**

Option A – Poles

See Schedule 91/491/591 for Streetlight poles service options.

**MONTHLY RATE**

The service rates for Option A lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

Distribution Charge 6.374 ¢ per kWh (l)

**MARKET BASED PRICING OPTION**

Energy Supply

The Customer may elect to purchase Energy from an Electricity Service Supplier (ESS) (Direct Access Service) or from the Company. Such election will be for all of the Customer's POD under this schedule.

Direct Access Service

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, Transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

Company Supplied Energy

Upon not less than five business days notice, the Customer may choose the Company Supplied Energy Charge option. The election of this option will be effective on the next regularly scheduled meter reading date, but with not less than a five business day notice to the Company prior to the scheduled meter read date.

The Company Supplied Energy Option is the Intercontinental Exchange Mid-Columbia Daily on- and off-peak Electricity Firm Price Index (ICE-Mid-C Index) plus 2 mills per kWh plus losses. If prices are not reported for a particular day or days, the average of the immediately preceding and following reported days' on- and off-peak prices will be used to determine the price for the non-reported period. Prices reported with no transaction volume or as "survey-based" will be considered reported.

**SCHEDULE 495 (Continued)**

**MARKET BASED PRICING OPTION (Continued)**

Wheeling Charge

The Wheeling Charge will be \$1.802 per kW of monthly Demand.

(I)

Transmission Charge

Transmission and Ancillary Service Charges will be as specified in the Company's Open Access Transmission Tariff (OATT) as filed and approved by the Federal Energy Regulatory Commission.

**ON AND OFF PEAK HOURS**

On-peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**LOSSES**

The following adjustment factors will be used where losses are to be included in the energy charges:

Secondary Delivery Voltage	1.0685
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**SCHEDULE 495 (Continued)**

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rates <sup>(1)</sup>	Straight Time	Overtime
	\$135.00 per hour	\$193.00 per hour

(1) Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

LED lighting is new to the Company and pricing is changing rapidly. The Company may adjust rates under this schedule based on actual frequency of maintenance occurrences and changes in material prices.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
LED	37	2,530	13	\$ 3.72	(I)
LED	50	3,162	17	3.97	
LED	52	3,757	18	4.37	
LED	67	5,050	23	5.01	
LED	106	7,444	36	6.60	(I)
LED	134	14,200	46	9.72	(R)
LED	156	16,300	53	11.29	(I)
LED	176	18,300	60	12.14	(I)
LED	201	21,400	69	12.02	(R)

**SCHEDULE 495 (Continued)**

**RATES FOR DECORATIVE LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
Acorn LED	60	5,488	21	\$ 11.85	(R)
	70	4,332	24	13.68	
HADCO Acorn LED	70	5,120	24	17.53	
Westbrooke (Non-Flared) LED	36	3,369	12	14.37	
	53	5,079	18	15.49	
	69	6,661	24	15.49	(R)
	85	8,153	29	16.82	(I)
	136	12,687	46	19.92	(R)
	206	18,159	70	21.17	
Westbrooke (Flared) LED	36	3,369	12	15.39	
	53	5,079	18	17.43	
	69	6,661	24	17.81	
	85	8,153	29	17.16	
	136	12,687	46	20.93	
	206	18,159	70	22.46	(R)
Post-Top, American Revolution LED	45	3,395	15	7.40	(I)
	72	4,409	25	7.52	(I)

**SPECIALTY SERVICES OFFERED**

Upon Customer request and subject to the Company's operating constraints, the Company will provide the following streetlighting services based on the Company's total costs including Company indirect charges:

- . Trimming of trees adjacent to streetlight equipment and circuits.
- . Arterial patrols to ensure correct operation of streetlights.
- . Painting or staining of wood and steel streetlight poles.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS.

**SCHEDULE 515  
OUTDOOR AREA LIGHTING  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Nonresidential Customers purchasing Direct Access Service for outdoor area lighting.

**CHARACTER OF SERVICE**

Lighting services, which consist of the provision of Company-owned luminaires mounted on Company-owned poles, in accordance with Company specifications as to equipment, installation, maintenance and operation.

The Company will replace lamps on a scheduled basis. Subject to the Company's operating schedules and requirements, the Company will replace individual burned-out lamps as soon as reasonably possible after the Customer or Electricity Service Supplier (ESS) notifies the Company of the burn-out.

**MONTHLY RATE**

Rates for Area Lighting

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate<sup>(1)</sup> Per Luminaire</u>
Cobrahead Mercury Vapor	175	7,000	66	\$ 9.47 <sup>(2)</sup>
	400	21,000	147	15.18 <sup>(2)</sup>
	1,000	55,000	374	29.88 <sup>(2)</sup>
HPS	70	6,300	30	7.21 <sup>(2)</sup>
	100	9,500	43	8.04
	150	16,000	62	9.36
	200	22,000	79	10.84
	250	29,000	102	12.18
	310	37,000	124	13.94 <sup>(2)</sup>
	400	50,000	163	16.14
Flood , HPS	100	9,500	43	7.94 <sup>(2)</sup>
	200	22,000	79	11.05 <sup>(2)</sup>
	250	29,000	102	12.46
	400	50,000	163	16.35
Shoebox, HPS (bronze color, flat lens, or drop lens, multi-volt)	70	6,300	30	8.53
	100	9,500	43	9.05
	150	16,500	62	10.58

(1) See Schedule 100 for applicable adjustments.

(2) No new service.

(I)

**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

<u>Type of Light</u>	<u>Watts</u>	<u>Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate<sup>(1)</sup> Per Luminaire</u>	
Special Acorn Type, HPS	100	9,500	43	\$ 11.30	(I)
HADCO Victorian, HPS	150	16,500	62	12.51	
	200	22,000	79	14.26	
	250	29,000	102	15.72	
Early American Post-Top, HPS, Black	100	9,500	43	8.42	
Special Types					
Cobrahead, Metal Halide	150	10,000	60	9.65	
Cobrahead, Metal Halide	175	12,000	71	10.43	
Flood, Metal Halide	350	30,000	139	14.84	
Flood, Metal Halide	400	40,000	156	16.11	
Flood, HPS	750	105,000	285	27.35	(I)
HADCO Independence, HPS	100	9,500	43	11.44	(R)
	150	16,000	62	12.65	(I)
HADCO Capitol Acorn, HPS	100	9,500	43	14.89	
	150	16,000	62	14.83	(I)
	200	22,000	79	15.93	(R)
	250	29,000	102	17.38	(I)
HADCO Techtra, HPS	100	9,500	43	19.79	(R)
	150	16,000	62	20.78	(R)
	250	29,000	102	23.15	(I)
HADCO Westbrooke, HPS	70	6,300	30	13.01	(R)
	100	9,500	43	13.42	(R)
	150	16,000	62	19.18	(I)
	200	22,000	79	15.90	
	250	29,000	102	17.93	
Holophane Mongoose, HPS	150	16,000	62	12.89	(I)

(1) See Schedule 100 for applicable adjustments.

**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Lighting (Continued)

Type of Light	Watts	Lumens	Monthly kWh	Monthly Rate <sup>(1)</sup> Per Luminaire	
Acorn LED	60	5,488	21	\$ 12.40	(R)
	70	4,332	24	14.23	
HADCO LED	70	5,120	24	17.12	(R)
Cobrahead LED	37	2,530	13	4.11	(I)
	50	3,162	17	4.36	
	52	3,757	18	4.76	
	67	5,050	23	5.28	
	106	7,444	36	6.86	(I)
	134	14,200	46	9.32	
	156	16,300	53	10.89	(I)
	176	18,300	60	11.74	(I)
	201	21,400	69	11.62	(R)
Westbrooke LED (Non-Flare)	36	3,369	12	13.96	
	53	5,079	18	16.04	
	69	6,661	24	16.04	(R)
	85	8,153	29	17.37	(I)
	136	12,687	46	20.47	(R)
	206	18,159	70	21.72	
Westbrooke LED (Flare)	36	3,369	12	14.99	
	53	5,079	18	17.99	
	69	6,661	24	18.37	
	85	8,153	29	17.72	
	136	12,687	46	21.49	
	206	18,159	70	23.02	(R)
CREE XSP LED	25	2,529	9	3.01	(I)
	42	3,819	14	3.41	
	48	4,373	16	3.94	
	56	5,863	19	4.56	
	91	8,747	31	5.33	
Post-Top, American Revolution LED	45	3,395	15	7.00	
	72	4,409	25	7.11	(I)

(1) See Schedule 100 for applicable adjustments.



**SCHEDULE 515 (Continued)**

MONTHLY RATE (Continued)  
Rates for Area Light Poles<sup>(1)</sup>

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rate Per Pole</u>	
Wood, Standard	35 or less	\$ 5.08	(R)
	40 to 55	6.63	
Wood, Painted Underground	35 or less	5.08 <sup>(2)</sup>	
Wood, Curved laminated	30 or less	6.28 <sup>(2)</sup>	
Aluminum, Regular	16	6.03	
	25	10.01	
	30	10.81	
	35	12.92	
Aluminum, Fluted Ornamental	14	8.81	
Aluminum Davit	25	9.99	
	30	9.95	
	35	10.87	
	40	14.73	
Aluminum Double Davit	30	14.64	
Aluminum, Fluted Ornamental	16	9.00	
Aluminum, HADCO, Smooth Techtra Ornamental	18	17.32	
Aluminum, HADCO, Fluted Westbrooke	18	17.36	
Aluminum, HADCO, Smooth Westbrooke	18	18.40	
Concrete, Ameron Post-Top	25	17.28	
Fiberglass Fluted Ornamental; Black	14	10.66	
Fiberglass, Regular	Black	20	4.46
	Gray or Bronze	30	7.57
	Black, Gray, or Bronze	35	6.51
	Fiberglass, Anchor Base, Gray or Black	35	11.83
Fiberglass, Direct Bury with Shroud	18	7.19	(R)

(1) No pole charge for luminaires placed on existing Company-owned distribution poles.  
(2) No new service.

**SCHEDULE 532  
SMALL NONRESIDENTIAL  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Small Nonresidential Customers who have chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>			
Single Phase	\$18.00		(I)
Three Phase	\$24.00		(I)
<u>Distribution Charge</u>			
First 5,000 kWh	4.357 ¢ per kWh		(I)
Over 5,000 kWh	0.782 ¢ per kWh		(R)

\* See Schedule 100 for applicable adjustments.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 538  
LARGE NONRESIDENTIAL OPTIONAL TIME-OF-DAY  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

This optional schedule is applicable to Large Nonresidential Customers who have chosen to receive service from an Electricity Service Supplier (ESS), and: 1) served at Secondary voltage with a monthly Demand that does not exceed 200 kW more than once in the preceding 13 months; or 2) who were receiving service on Schedule 38 as of December 31, 2015.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$25.00	
<u>Distribution Charge</u>	7.416	¢ per kWh

(1)

\* See Schedule 100 for applicable adjustments.

**MINIMUM CHARGE**

The Minimum Charge will be the Basic Charge. In Addition, the Company may require the Customer to execute a written agreement specifying a higher Minimum Charge if necessary, to justify the Company's investment in service facilities.

**REACTIVE DEMAND**

In addition to the Monthly Rate, the Customer will pay 50¢ for each kilovolt-ampere of Reactive Demand in excess of 40% of the maximum Demand. Such charge is separate from and in addition to the Minimum Charge specified.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 549  
IRRIGATION AND DRAINAGE PUMPING  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers who have chosen to receive Electricity from an Electricity Service Supplier (ESS) for irrigation and drainage pumping; may include other incidental service if an additional meter would otherwise be required.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>		
Summer Months**	\$40.00	
Winter Months**	No Charge	
<u>Distribution Charge</u>		
First 50 kWh per kW of Demand	8.442 ¢ per kWh	(I)
Over 50 kWh per kW of Demand	6.442 ¢ per kWh	(I)

\* See Schedule 100 for applicable adjustments.

\*\* Summer Months and Winter Months commence with meter readings as defined in Rule B.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**SCHEDULE 575  
PARTIAL REQUIREMENTS SERVICE  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers who receive Electricity Service from an Electricity Service Supplier (ESS) and who supply all or some portion of their load by self generation operating on a regular basis, where the self-generation has a total nameplate rating of 2 MW or greater. A Large Nonresidential Customer is a Customer that has exceeded 30 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 30 kW.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>				
Three Phase Service	\$3,350.00	\$1,910.00	\$4,080.00	(I)
<u>Distribution Charge</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.65	\$1.61	\$1.61	
Over 4,000 kW	\$1.34	\$1.30	\$1.30	
per kW of monthly On-Peak Demand**	\$2.84	\$2.76	\$1.36	(I)
<u>Generation Contingency Reserves Charges***</u>				
Spinning Reserves				
per kW of Reserved Capacity > 1,000 kW	\$0.234	\$0.234	\$0.234	
Supplemental Reserves				
per kW of Reserved Capacity > 1,000 kW	\$0.234	\$0.234	\$0.234	
<u>System Usage Charge</u>				
per kWh	0.102 ¢	0.101 ¢	0.100 ¢	(I)

\* See Schedule 100 for applicable adjustments.

\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

\*\*\* Not applicable when ESS is providing Energy Regulation and Imbalance services as described in Schedule 600.

**SCHEDULE 576R  
ECONOMIC REPLACEMENT POWER RIDER  
DIRECT ACCESS SERVICE**

**PURPOSE**

To provide Customers served on Schedule 575 with the option for delivery of Energy from the Customer's Electricity Service Supplier (ESS) to replace some, or all of the Customer's on-site generation when the Customer deems it is more economically beneficial than self generating.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To Large Nonresidential Customers served on Schedule 575.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The following charges are in addition to applicable charges under Schedule 575:\*

	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Daily Economic Replacement Power (ERP)</u>				
<u>Demand Charge</u>				
per kW of Daily ERP Demand during On-Peak hours per day**	\$0.111	\$0.108	\$0.053	(I)
<u>Transaction Fee</u>				
per Energy Needs Forecast (ENF) submission or revision	\$50.00	\$50.00	\$50.00	

\* See Schedule 100 for applicable adjustments.

\*\* Peak hours are between 6:00 a.m. and 10:00 p.m. Monday through Saturday. Off-peak hours are between 10:00 p.m. and 6:00 a.m. Monday through Saturday and all day Sunday.

**SCHEDULE 583  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(31 – 200 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has not exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW and who has chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

Basic Charge

Single Phase Service	\$30.00
Three Phase Service	\$40.00

Distribution Charges\*\*

The sum of the following:

per kW of Facility Capacity		
First 30 kW	\$3.84	(I)
Over 30 kW	\$3.74	
per kW of monthly On-Peak Demand	\$2.84	(I)

System Usage Charge

per kWh	0.527 ¢	(R)
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\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**SCHEDULE 585  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(201 – 4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customers whose Demand has exceeded 200 kW more than six times in the preceding 13 months and has not exceeded 4,000 kW more than once in the preceding 13 months, or with seven months or less of service has not had a Demand exceeding 4,000 kW and who has chosen to receive Electricity from an Electricity Service Supplier (ESS).

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>		
	<u>Secondary</u>	<u>Primary</u>	
<u>Basic Charge</u>	\$530.00	\$490.00	(I)
<u>Distribution Charges**</u>			
The sum of the following:			
per kW of Facility Capacity			
First 200 kW	\$3.50	\$3.42	(I)
Over 200 kW	\$2.60	\$2.52	(I)
per kW of monthly On-Peak Demand	\$2.84	\$2.76	(I)
<u>System Usage Charge</u>			
per kWh	0.012 ¢	0.010 ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.



**SCHEDULE 589  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(>4,000 kW)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer whose Demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW, and who has chosen to receive Electricity from an ESS.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges at the applicable Delivery Voltage per Point of Delivery (POD)\*:

	<u>Delivery Voltage</u>			
	<u>Secondary</u>	<u>Primary</u>	<u>Subtransmission</u>	
<u>Basic Charge</u>	\$3,350.00	\$1,910.00	\$4,080.00	(l)
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.65	\$1.61	\$1.61	
Over 4,000 kW	\$1.34	\$1.30	\$1.30	
per kW of monthly on-peak Demand	\$2.84	\$2.76	\$1.36	(l)
<u>System Usage Charge</u>				
per kWh	0.102 ¢	0.101 ¢	0.100 ¢	(l)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**SCHEDULE 590  
LARGE NONRESIDENTIAL  
DIRECT ACCESS SERVICE  
(>4,000 kW and Aggregate to >100 MWa)**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To each Large Nonresidential Customer who meet the following conditions: 1) Individual account demand has exceeded 4,000 kW at least twice within the preceding 13 months, or with seven months or less of service has had a Demand exceeding 4,000 kW; and 2) where combined usage of all accounts meeting condition 1 for the Large Nonresidential Customer aggregate to at least 100 MWa in a calendar year; and 3) the customer maintains a load factor of 80% or greater for each account; and 4) who has chosen to receive Electricity from an ESS.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The sum of the following charges per Point of Delivery (POD)\*:

<u>Basic Charge</u>	\$5,600.00	(R)
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.48	(I)
Over 4,000 kW	\$1.17	
per kW of monthly on-peak Demand	\$2.76	(I)
<u>System Usage Charge</u>		
per kWh	(0.042) ¢	(R)

\* See Schedule 100 for applicable adjustments.

\*\* The Company may require a Customer with dedicated substation capacity and/or redundant distribution facilities to execute a written agreement specifying a higher minimum monthly Facility Capacity and monthly Demand for the POD.

**SCHEDULE 591 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS (Continued)**  
**Option B – Pole maintenance (Continued)**

Emergency Pole Replacement and Repair

The Company will repair or replace damaged streetlight poles that have been damaged due to the acts of vandalism, damage claim incidences and storm related events that cause a pole to become structurally unsound at no additional cost to the customer.

Without notice to the Customer, individual poles that are damaged or destroyed by unexpected events will be replaced on determination that the pole is unfit for further use as soon as reasonably possible. Replacement is subject to the Company's operating schedules and requirements.

Special Provisions for Option B - Poles

1. If damage occurs to any streetlighting pole more than two times in any 12-month period measured from the first incidence of damage that requires replacement, the Customer will be responsible to pay for future installations or mutually agree with the Company and pay to have the pole either completely removed or relocated.
2. Non-Standard or Custom poles are provided at the Company's discretion to allow greater flexibility in the choice of equipment. The Company will not maintain an inventory of this equipment and thus delays in maintenance may occur. The Company will order and replace the equipment subject to availability since non-standard and custom equipment is subject to obsolescence. The Customer will pay for any additional cost to the Company for ordering non-standard equipment.

**MONTHLY RATE**

The service rates for Option A and B lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Distribution Charge</u>	6.374 ¢ per kWh	(I)
<u>Energy Charge</u>	Provided by Energy Service Supplier	

**NOVEMBER ELECTION WINDOW**

The November Election Window begins at 2:00 p.m. on November 15<sup>th</sup> (or the following business day if the 15<sup>th</sup> falls on a weekend or holiday). The November Election Window will remain open until 5:00 p.m. at the close of the fifth consecutive business day.

During a November Election Window, a Customer may notify the Company of its choice to change to any service options for an effective date of January 1<sup>st</sup>. Customers may notify the Company of a choice to change service options using the Company's website, [PortlandGeneral.com/business](http://PortlandGeneral.com/business)

**SCHEDULE 591 (Continued)**

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rates	Straight Time	Overtime <sup>(1)</sup>
	\$135.00 per hour	\$193.00 per hour

(1) Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING  
High-Pressure Sodium (HPS) Only – Service Rates**

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates			
				Option A	Option B	Option C	
Cobrahead Power Doors **	70	6,300	30	*	\$ 3.18	\$ 1.91	(I)
	100	9,500	43	*	4.01	2.74	
	150	16,000	62	*	5.23	3.95	
	200	22,000	79	*	6.35	5.04	
	250	29,000	102	*	7.79	6.50	
	400	50,000	163	*	11.72	10.39	
Cobrahead, Non-Power Door	70	6,300	30	\$ 6.32	3.41	1.91	
	100	9,500	43	7.15	4.24	2.74	
	150	16,000	62	8.47	5.46	3.95	
	200	22,000	79	10.28	6.61	5.04	
	250	29,000	102	11.62	8.05	6.50	
	400	50,000	163	15.58	11.95	10.39	
Flood	250	29,000	102	11.90	8.08	6.50	
	400	50,000	163	15.79	11.97	10.39	
Early American Post-Top	100	9,500	43	7.53	4.29	2.74	
Shoebox (Bronze color, flat Lens, or drop lens, multi-volt)	70	6,300	30	7.64	3.59	1.91	
	100	9,500	43	8.16	4.38	2.74	
	150	16,000	62	9.69	5.63	3.95	

\* Not offered.

\*\* Service is only available to customers with total power doors luminaires in excess of 2,500.

**SCHEDULE 591 (Continued)**

**RATES FOR STANDARD POLES**

Type of Pole	Pole Length (feet)	Monthly Rates		
		Option A	Option B	
Fiberglass, Black, Bronze or Gray	20	\$ 4.46	\$ 0.14	(R)
Fiberglass, Black or Bronze	30	7.03	0.23	
Fiberglass, Gray	30	7.57	0.25	
Fiberglass, Smooth, Black or Bronze	18	4.46	0.14	
Fiberglass, Regular	18	3.98	0.13	
Black, Bronze, or Gray	35	6.51	0.21	
Wood, Standard	30 to 35	5.08	0.16	
Wood, Standard	40 to 55	6.63	0.22	

**RATES FOR CUSTOM LIGHTING**

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates						
				Option A	Option B	Option C				
Special Acorn-Types										
HPS	100	9,500	43	\$ 10.74	\$ 4.68	\$ 2.74	(I)	(I)	(I)	
HADCO Victorian, HPS	150	16,000	62	11.95	5.89	3.95				
	200	22,000	79	13.71	7.07	5.04				
	250	29,000	102	15.17	8.53	6.50				
HADCO Capitol Acorn, HPS	100	9,500	43	14.34	5.15	2.74				
	150	16,000	62	14.28	6.19	3.95				(I)
	200	22,000	79	15.38	7.29	5.04				(R)
	250	29,000	102	16.83	8.74	6.50				(I)
Special Architectural Types										
HADCO Independence, HPS	100	9,500	43	10.88	4.68	2.74	(R)			
	150	16,000	62	12.09	5.89	3.95	(I)			
HADCO Techtra, HPS	100	9,500	43	19.24	5.80	2.74	(R)			
	150	16,000	62	20.23	6.98	3.95	(R)			
	250	29,000	102	22.60	9.50	6.50	(I)			
HADCO Westbrooke, HPS	70	6,300	30	12.46	4.18	*	(R)			
	100	9,500	43	12.86	4.95	2.74	(R)			(I)

\* Not offered.

**SCHEDULE 591 (Continued)**

**RATES FOR CUSTOM LIGHTING (Continued)**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>			
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>	
HADCO Westbrooke, HPS	150	16,000	62	\$ 18.63	\$ 6.76	\$ 3.95	(I)
	200	22,000	79	15.34	7.28	5.04	
	250	29,000	102	17.37	8.81	6.50	
Special Types							
Flood, Metal Halide	350	30,000	139	14.29	10.60	8.86	
Flood, HPS	750	105,000	285	26.79	20.99	18.17	
Option C Only **							
Ornamental Acorn Twin	85	9,600	64	*	*	4.08	
Ornamental Acorn	55	2,800	21	*	*	1.34	
Ornamental Acorn Twin	55	5,600	42	*	*	2.68	
Composite, Twin	140	6,815	54	*	*	3.44	
	175	9,815	66	*	*	4.21	(I)

**RATES FOR CUSTOM POLES**

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum, Regular	25	\$ 10.01	\$ 0.32	(R)
	30	10.81	0.35	
	35	12.92	0.42	
Aluminum Davit	25	9.99	0.32	
	30	9.95	0.32	
	35	10.87	0.35	
	40	14.73	0.48	
Aluminum Double Davit	30	14.64	0.47	
Aluminum, Fluted Ornamental	14	8.81	0.29	(R)

\* Not offered.

\*\* Rates are based on current kWh energy charges.

**SCHEDULE 591 (Continued)**

RATES FOR CUSTOM POLES (Continued)

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum, HADCO, Smooth Techtra Ornamental	18	\$ 17.32	\$ 0.56	(R)
Aluminum, Fluted Ornamental	16	9.00	0.29	
Aluminum, HADCO, Fluted Westbrooke	18	17.36	0.56	
Aluminum, HADCO, Smooth Westbrooke	18	18.40	0.60	
Fiberglass, Fluted Ornamental Black	14	10.66	0.35	
Fiberglass, Anchor Base, Gray or Black	35	11.83	0.38	(R)

**SERVICE RATE FOR OBSOLETE LIGHTING**

The following equipment is not available for new installations under Options A and B. To the extent feasible, maintenance will be provided. Obsolete Lighting will be replaced with the Customer's choice of Standard or Custom equipment. The Customer will then be billed at the appropriate Standard or Custom rate. If an existing mercury vapor luminaire requires the replacement of a ballast, the unit will be replaced with a corresponding HPS unit.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>			
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>	
Cobrahead, Metal Halide	150	10,000	60	\$ 8.76	\$ 5.60	\$ 3.82	(I)
Cobrahead, Mercury Vapor	100	4,000	39	*	*	2.49	
	175	7,000	66	8.58	5.67	4.21	
	250	10,000	94	*	*	5.99	
	400	21,000	147	14.62	10.95	9.37	
	1,000	55,000	374	29.32	25.69	23.84	
Holophane Mongoose,	150	16,000	62	12.34	5.94	3.95	
HPS	250	29,000	102	14.34	8.42	*	(I)

\* Not offered.

**SCHEDULE 591 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates		
				Option A	Option B	Option C
Special Box Similar to GE "Space-Glo"						
HPS	70	6,300	30	\$ 7.28	*	*
Mercury Vapor	175	7,000	66	9.54	\$ 5.76	\$ 4.21
Special box, Anodized Aluminum						
Similar to GardCo Hub						
HPS	Twin 70	6,300	60	*	*	3.82
	70	6,300	30	*	*	1.91
	100	9,500	43	*	4.63	2.74
	150	16,000	62	*	5.86	3.95
	250	29,000	102	*	*	6.50
	400	50,000	163	*	*	10.39
Metal Halide	250	20,500	99	*	7.55	6.31
	400	40,000	156	*	11.18	*
Cobrahead, Metal Halide	175	12,000	71	*	6.18	4.53
Flood, Metal Halide	400	40,000	156	15.56	11.74	9.94
Cobrahead, Dual Wattage HPS						
70/100 Watt Ballast	100	9,500	43	*	4.26	*
100/150 Watt Ballast	100	9,500	43	*	4.26	*
100/150 Watt Ballast	150	16,000	62	*	5.48	3.95
Special Architectural Types						
KIM SBC Shoebox, HPS	150	16,000	62	*	6.33	3.95
KIM Archetype, HPS	250	29,000	102	*	8.93	6.50
	400	50,000	163	*	12.51	10.39

(I)

\* Not offered



**SCHEDULE 591 (Continued)**

SERVICE RATE FOR OBSOLETE LIGHTING (Continued)

Type of Light	Watts	Nominal Lumens	Monthly kWh	Monthly Rates			(R)	(I)
				Option A	Option B	Option C		
Special Acorn-Type, HPS	70	6,300	30	\$ 9.93	\$ 3.87	*		
Special GardCo Bronze Alloy								
HPS	70	5,000	30	*	*	\$ 1.91		
Mercury Vapor	175	7,000	66	*	*	4.21		
Early American Post-Top, HPS								
Black	70	6,300	30	6.64	3.40	1.91		
Rectangle Type	200	22,000	79	*	*	5.04		
Incandescent	92	1,000	31	*	*	1.98		
	182	2,500	62	*	*	3.95		
Town and Country Post-Top								
Mercury Vapor	175	7,000	66	8.94	5.70	4.21		
Flood, HPS	70	6,300	30	6.23	3.32	*		
	100	9,500	43	7.05	4.25	2.74		
	200	22,000	79	10.49	6.67	5.04		
Cobrahead, HPS								
Power Door	310	37,000	124	13.38	9.81	7.90		
Special Types Customer-Owned & Maintained								
Ornamental, HPS	100	9,500	43	*	*	2.74		
Twin ornamental, HPS	Twin 100	9,500	86	*	*	5.48		
Compact Fluorescent	28	N/A	12	*	*	0.76		(I)

\* Not offered.

**SCHEDULE 591 (Continued)**

**RATES FOR OBSOLETE LIGHTING POLES**

<u>Type of Pole</u>	<u>Poles Length (feet)</u>	<u>Monthly Rates</u>		
		<u>Option A</u>	<u>Option B</u>	
Aluminum Post	30	\$ 6.03	*	(R)
Aluminum, Painted Ornamental	35	*	\$ 0.96	
Aluminum, Regular	16	6.03	0.20	
Bronze Alloy GardCo	12	*	0.18	
Concrete, Ornamental	35 or less	10.01	0.32	
Fiberglass, Direct Bury with Shroud	18	7.19	0.23	
Steel, Painted Regular **	25	10.01	0.32	
Steel, Painted Regular **	30	10.81	0.35	
Steel, Unpainted 6-foot Mast Arm **	30	*	0.32	
Steel, Unpainted 6-foot Davit Arm **	30	*	0.32	
Steel, Unpainted 8-foot Mast Arm **	35	*	0.35	
Steel, Unpainted 8-foot Davit Arm **	35	*	0.35	
Wood, Laminated without Mast Arm	20	4.46	0.14	
Wood, Laminated Street Light Only	20	4.46	*	
Wood, Curved Laminated	30	6.28	0.23	
Wood, Painted Underground	35	5.08	0.16	(R)

\* Not offered.

\*\* Maintenance does not include replacement of rusted steel poles.

**SERVICE RATES FOR ALTERNATIVE LIGHTING**

The purpose of this series of luminaires is to provide lighting utilizing the latest in technological advances in lighting equipment. The Company does not maintain an inventory of this equipment, and so delays with maintenance are likely. This equipment is more subject to obsolescence since it is experimental and yet to be determined reliable or cost effective. The Company will order and replace the equipment subject to availability.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rates</u>					
				<u>Option A</u>	<u>Option B</u>	<u>Option C</u>			
Special Architectural Types Including Philips QL Induction Lamp Systems									
HADCO Victorian, QL	85	6,000	32	*	\$ 2.74	\$ 2.04		(I)	(I)
	165	12,000	60	*	4.65	3.82			
	165	12,000	60	\$ 21.37	4.91	3.82	(R)	(I)	(I)

**Advice No. 17-06**

**Issued February 28, 2017**

**James F. Lobdell, Senior Vice President**

**Effective for service on and after March 31, 2017**

**SCHEDULE 592  
TRAFFIC SIGNALS  
DIRECT ACCESS SERVICE**

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To municipalities or agencies of federal or state governments served on Schedule 92, who purchase Electricity from an Electricity Service Supplier (ESS) for traffic signals and warning facilities in systems containing at least 50 intersections on public streets and highways, where funds for payment of Electricity are provided through taxation or property assessment. This schedule is available only to those governmental agencies receiving service under Schedule 92 as of September 30, 2001.

**CHARACTER OF SERVICE**

Sixty-hertz alternating current of such phase and voltage as the Company may have available.

**MONTHLY RATE**

The charge per Point of Delivery (POD)\* is:

Distribution Charge	2.648 ¢ per kWh	(1)
---------------------	-----------------	-----

\* See Schedule 100 for applicable adjustments.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**ADJUSTMENTS**

Service under this schedule is subject to adjustments approved by the Commission. Adjustments include those summarized in Schedule 100.

**SCHEDULE 595 (Continued)**

**STREETLIGHT POLES SERVICE OPTIONS**

Option A – Poles

See Schedule 91/591 for Streetlight poles service options.

**MONTHLY RATE**

The service rates for Option A lights include the following charges for each installed luminaire based on the Monthly kWhs applicable to each luminaire.

<u>Distribution Charge</u>	6.374 ¢ per kWh	(I)
<u>Energy Charge</u>	Provided by Energy Service Supplier	

**REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES**

Labor Rates	Straight Time	Overtime <sup>(1)</sup>
	\$135.00 per hour	\$193.00 per hour

(1) Per Article 20.2 of the Collective Bargaining Agreement Union No. 125 Contract, overtime is paid at the Overtime Rate for a minimum of one hour.

**RATES FOR STANDARD LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

LED lighting is new to the Company and pricing is changing rapidly. The Company may adjust rates under this schedule based on actual frequency of maintenance occurrences and changes in material prices.

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
LED	37	2,530	13	\$ 3.72	(I)
LED	50	3,162	17	3.97	
LED	52	3,757	18	4.37	
LED	67	5,050	23	5.01	
LED	106	7,444	36	6.60	(I)
LED	134	14,200	46	9.72	(R)
LED	156	16,300	53	11.29	(I)
LED	176	18,300	60	12.14	(I)
LED	201	21,400	69	12.02	(R)

**SCHEDULE 595 (Continued)**

**RATES FOR DECORATIVE LIGHTING**

**Light-Emitting Diode (LED) Only – Option A Service Rates**

<u>Type of Light</u>	<u>Watts</u>	<u>Nominal Lumens</u>	<u>Monthly kWh</u>	<u>Monthly Rate Option A</u>	
Acorn LED	60	5,488	21	\$ 11.85	(R)
	70	4,332	24	13.68	
HADCO Acorn LED	70	5,120	24	17.53	
Westbrooke (Non-Flared) LED	36	3,369	12	14.37	
	53	5,079	18	15.49	
	69	6,661	24	15.49	(R)
	85	8,153	29	16.82	(I)
	136	12,687	46	19.92	(R)
	206	18,159	70	21.17	
Westbrooke (Flared) LED	36	3,369	12	15.39	
	53	5,079	18	17.43	
	69	6,661	24	17.81	
	85	8,153	29	17.16	
	136	12,687	46	20.93	
	206	18,159	70	22.46	(R)
Post-Top, American Revolution LED	45	3,395	15	7.40	(I)
	72	4,409	25	7.52	(I)

**SPECIALTY SERVICES OFFERED**

Upon Customer request and subject to the Company's operating constraints, the Company will provide the following streetlighting services based on the Company's total costs including Company indirect charges:

- . Trimming of trees adjacent to streetlight equipment and circuits.
- . Arterial patrols to ensure correct operation of streetlights.
- . Painting or staining of wood and steel streetlight poles.

**ESS CHARGES**

In addition to the above charges, the Customer is subject to charges from its serving ESS for Electricity, transmission and other services as well as any other charges specified in the service agreement between the Customer and the ESS. If the Customer chooses to receive an ESS Consolidated Bill, the Company's charges for Direct Access Service are not required to be separately stated on an ESS Consolidated Bill.

**SCHEDULE 750**  
**INFORMATIONAL ONLY: FRANCHISE FEE RATE RECOVERY**

**PURPOSE**

To inform customers regarding the level of franchise fee rate recovery contained in each schedule's system usage or distribution charges.

**AVAILABLE**

In all territory served by the Company.

**APPLICABLE**

To all Residential and Nonresidential Customers located within the Company's service territory.

**FRANCHISE FEE RATE RECOVERY**

The Rates, included in the applicable system usage and distribution charges are:

<u>Schedule</u>	<u>Franchise Fee Rate</u>	<u>Included in:</u>	
7	0.333 ¢ per kWh	Distribution Charge	(I)
15	0.551 ¢ per kWh	Distribution Charge	(I)
32	0.302 ¢ per kWh	Distribution Charge	(I)
38	0.354 ¢ per kWh	Distribution Charge	(I)
47	0.518 ¢ per kWh	Distribution Charge	(R)
49	0.380 ¢ per kWh	Distribution Charge	(R)
75			
Secondary	0.170 ¢ per kWh	System Usage Charge	(R)
Primary	0.167 ¢ per kWh	System Usage Charge	(R)
Subtransmission	0.165 ¢ per kWh	System Usage Charge	(R)

**DO NOT BILL**

**SCHEDULE 750 (Continued)**

FRANCHISE FEE RATE RECOVERY (Continued)

The Rates, included in the applicable system usage and distribution charges are:

<u>Schedule</u>	<u>Franchise Fee Rate</u>	<u>Included in:</u>	
83	0.241 ¢ per kWh	System Usage Charge	(I)
85			
Secondary	0.206 ¢ per kWh	System Usage Charge	(R)
Primary	0.203 ¢ per kWh	System Usage Charge	(I)
89			
Secondary	0.170 ¢ per kWh	System Usage Charge	(R)
Primary	0.167 ¢ per kWh	System Usage Charge	(R)
Subtransmission	0.165 ¢ per kWh	System Usage Charge	(R)
90	0.158 ¢ per kWh	System Usage Charge	(R)
91	0.555 ¢ per kWh	Distribution Charge	(I)
92	0.211 ¢ per kWh	Distribution Charge	(I)
95	0.555 ¢ per kWh	Distribution Charge	(I)
485			
Secondary	0.067 ¢ per kWh	System Usage Charge	(I)
Primary	0.067 ¢ per kWh	System Usage Charge	(I)
489			
Secondary	0.041 ¢ per kWh	System Usage Charge	(I)
Primary	0.040 ¢ per kWh	System Usage Charge	(I)
Subtransmission	0.040 ¢ per kWh	System Usage Charge	(I)
490	0.016 ¢ per kWh	System Usage Charge	(I)
491	0.419 ¢ per kWh	Distribution Charge	(I)
492	0.069 ¢ per kWh	Distribution Charge	(I)
495	0.419 ¢ per kWh	Distribution Charge	(I)

DO NOT BILL

**SCHEDULE 750 (Concluded)**

FRANCHISE FEE RATE RECOVERY (Concluded)

The Rates, included in the applicable system usage and distribution charges are:

<u>Schedule</u>	<u>Franchise Fee Rate</u>	<u>Included in:</u>	
515	0.415 ¢ per kWh	Distribution Charge	(I)
532	0.137 ¢ per kWh	Distribution Charge	(I)
538	0.201 ¢ per kWh	Distribution Charge	(I)
549	0.191 ¢ per kWh	Distribution Charge	(R)
575			
Secondary	0.041 ¢ per kWh	System Usage Charge	(I)
Primary	0.040 ¢ per kWh	System Usage Charge	(I)
Subtransmission	0.040 ¢ per kWh	System Usage Charge	(I)
583	0.078 ¢ per kWh	System Usage Charge	(I)
585			
Secondary	0.067 ¢ per kWh	System Usage Charge	(I)
Primary	0.067 ¢ per kWh	System Usage Charge	(I)
589			
Secondary	0.041 ¢ per kWh	System Usage Charge	(I)
Primary	0.040 ¢ per kWh	System Usage Charge	(I)
Subtransmission	0.040 ¢ per kWh	System Usage Charge	(I)
590	0.016 ¢ per kWh	System Usage Charge	(I)
591	0.419 ¢ per kWh	Distribution Charge	(I)
592	0.069 ¢ per kWh	Distribution Charge	(I)
595	0.419 ¢ per kWh	Distribution Charge	(I)

DO NOT BILL