



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

July 29, 2016

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

RE: Advice No. 16-12, UE 294 General Rate Case Carty Compliance Filing

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, with an effective date of **August 1, 2016**:

First Revision of Sheet No. 6-2
First Revision of Sheet No. 6-3
First Revision of Sheet No. 6-4
First Revision of Sheet No. 6-5
First Revision of Sheet No. 6-6
First Revision of Sheet No. 6-7
First Revision of Sheet No. 6-8
Ninth Revision of Sheet No. 7-1
Seventh Revision of Sheet No. 15-1
Eighth Revision of Sheet No. 15-2
Ninth Revision of Sheet No. 15-3
Ninth Revision of Sheet No. 15-4
Eighth Revision of Sheet No. 32-1
Eighth Revision of Sheet No. 38-1
Eighth Revision of Sheet No. 47-1
Ninth Revision of Sheet No. 49-1
Eleventh Revision of Sheet No. 75-1
Tenth Revision of Sheet No. 83-1
Seventh Revision of Sheet No. 85-1
Eleventh Revision of Sheet No. 89-1
Third Revision of Sheet No. 90-1
Eleventh Revision of Sheet No. 91-7
Tenth Revision of Sheet No. 92-1
Fifth Revision of Sheet No. 95-3
Eighth Revision of Sheet No. 123-1

Seventh Revision of Sheet No. 123-2
Eighteenth Revision of Sheet No. 128-1
Seventeenth Revision of Sheet No. 128-2
Twenty Fifth Revision of Sheet No. 128-4
Fifteenth Revision of Sheet No. 129-2
Twenty Third Revision of Sheet No. 129-3
Sixth Revision of Sheet No. 129-5
Second Revision of Sheet No. 143-1
Second Revision of Sheet No. 143-2
Second Revision of Sheet No. 143-3
Eighth Revision of Sheet No. 485-3
Twelfth Revision of Sheet No. 489-3
Third Revision of Sheet No. 490-2
Third Revision of Sheet No. 491-6
Sixth Revision of Sheet No. 491-8
Fourth Revision of Sheet No. 491-9
Fourth Revision of Sheet No. 491-10
Fourth Revision of Sheet No. 491-11
Fourth Revision of Sheet No. 491-12
Fourth Revision of Sheet No. 491-13
Third Revision of Sheet No. 492-1
Third Revision of Sheet No. 495-3
Eighth Revision of Sheet No. 515-1
Ninth Revision of Sheet No. 515-2
Seventh Revision of Sheet No. 532-1

Eighth Revision of Sheet No. 538-1
Eighth Revision of Sheet No. 549-1
Eleventh Revision of Sheet No. 575-1
Ninth Revision of Sheet No. 583-1
Sixth Revision of Sheet No. 585-1
Eleventh Revision of Sheet No. 589-1
Third Revision of Sheet No. 590-1
Thirteenth Revision of Sheet No. 591-6
Sixteenth Revision of Sheet No. 591-7

Tenth Revision of Sheet No. 591-8
Ninth Revision of Sheet No. 591-9
Ninth Revision of Sheet No. 591-10
Eighth Revision of Sheet No. 591-11
Seventh Revision of Sheet No. 591-12
Eighth Revision of Sheet No. 592-1
Ninth Revision of Sheet No. 595-3
Third Revision of Sheet No. 750-1
Third Revision of Sheet No. 750-2

This filing is submitted in compliance with the requirements of OPUC Order No. 15-356 with respect to incorporating the costs of the Carty generation plant and the Grassland switchyard into rates.

Enclosed as Attachment A is the Attestation of Maria Pope, Senior Vice President of Power Supply and Operations and Resource Planning for PGE attesting to the completion of testing of the Carty generation plant and the release of the plant to the system dispatcher for commercial operation on July 29, 2016.

The base rate change in revenues is an increase of approximately \$85 million resulting in a base rate increase of 4.8% for Cost of Service (COS) customers and also a base rate increase of 4.8% when Direct Access customers are included. The overall net change in prices when including the effect of the Schedule 143 Spent Fuel Adjustment credits is an increase of 2.7% for COS customers. Including Direct Access customers, the overall increase is 2.5%.

A typical Schedule 7 customer consuming 840 kWh monthly will see a bill increase of \$2.43 or 2.5% resulting from the August 1, 2016 price changes.

Work papers supporting the calculation of prices changes are attached as follows:

- A: Billing Comparisons for major rate schedules
- B: Rate Spread/Rate Design and other work papers

Should you have any questions or comments regarding this filing, please contact Marc Cody at (503) 464- 7434 or Rob Macfarlane at (503) 464-8954.

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

Sincerely,



Jay Tinker *fr*
Director, Regulatory Policy & Affairs

Enclosures
cc: Service List – UE 294

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>	\$10.50		
<u>Transmission and Related Services Charge</u>	0.237	¢ per kWh	
<u>Distribution Charge</u>	4.024	¢ 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	6.850	¢ per kWh	(I)
Over 1,000 kWh	7.572	¢ per kWh	(I)
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	4.444	¢ per kWh	(I)
On-Peak Period	10.544	¢ per kWh	(I)
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	4.444	¢ per kWh	(I)
On-Peak Period	10.544	¢ per kWh	(I)
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	5.271	¢ per kWh
On-Peak Period	14.571	¢ per kWh
First 1,000 kWh block adjustment	(0.722)	¢ per kWh

(I)
(I)

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	5.271	¢ per kWh	(I)
On-Peak Period	14.571	¢ per kWh	(I)
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	3.834	¢ per kWh	(l)
Mid-Peak Period	8.834	¢ per kWh	(l)
On-Peak Period	14.934	¢ per kWh	(l)
First 1,000 kWh block adjustment	(0.722)	¢ 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					
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	3.834	¢ per kWh	(I)
Mid-Peak Period	8.834	¢ per kWh	(I)
On-Peak Period	14.934	¢ per kWh	(I)
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>	\$10.50		
<u>Transmission and Related Services Charge</u>	0.237	¢ per kWh	
<u>Distribution Charge</u>	4.024	¢ per kWh	(l)
<u>Energy Charge Options</u>			
Standard Service			
First 1,000 kWh	6.850	¢ per kWh	(l)
Over 1,000 kWh	7.572	¢ per kWh	
or			
Time-of-Use (TOU) Portfolio (Whole Premises or Electric Vehicle (EV) TOU) (Enrollment is necessary)			
On-Peak Period	13.197	¢ per kWh	(l)
Mid-Peak Period	7.572	¢ per kWh	
Off-Peak Period	4.399	¢ 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>	0.162	¢ per kWh	
<u>Distribution Charge</u>	5.277	¢ per kWh	(l)
<u>Cost of Service Energy Charge</u>	5.636	¢ per kWh	(l)

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</u> ⁽¹⁾ <u>Per Luminaire</u>
<u>Cobrahead</u>				
Mercury Vapor	175	7,000	66	\$ 12.80 ⁽²⁾
	400	21,000	147	22.19 ⁽²⁾
	1,000	55,000	374	47.73 ⁽²⁾
<u>HPS</u>				
	70	6,300	30	8.87 ⁽²⁾
	100	9,500	43	10.30
	150	16,000	62	12.51
	200	22,000	79	14.64
	250	29,000	102	17.14
	310	37,000	124	19.97 ⁽²⁾
	400	50,000	163	24.05
<u>Flood, HPS</u>				
	100	9,500	43	10.16 ⁽²⁾
	200	22,000	79	15.04 ⁽²⁾
	250	29,000	102	17.56
	400	50,000	163	24.30
<u>Shoebox, HPS (bronze color, flat lens or drop lens, multi-volt)</u>				
	70	6,300	30	10.29
	100	9,500	43	11.43
	150	16,500	62	13.74
<u>Special Acorn Type, HPS</u>				
	100	9,500	43	13.80
<u>HADCO Victorian, HPS</u>				
	150	16,500	62	15.95
	200	22,000	79	18.57
	250	29,000	102	21.13
<u>Early American Post-Top, HPS</u>				
Black	100	9,500	43	10.69

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

(I)

SCHEDULE 15 (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 Per Luminaire⁽¹⁾</u>
Special Types				
Cobrahead, Metal Halide	150	10,000	60	\$ 12.77
	175	12,000	71	14.01
Flood, Metal Halide	350	30,000	139	21.90
	400	40,000	156	23.72
Flood, HPS	750	105,000	285	41.13
HADCO Independence, HPS	100	9,500	43	14.60
	150	16,000	62	15.72
HADCO Capitol Acorn, HPS	100	9,500	43	17.05
	150	16,000	62	18.48
	200	22,000	79	21.85
	250	29,000	102	22.91
HADCO Techtra, HPS	100	9,500	43	23.19
	150	16,000	62	24.70
	250	29,000	102	29.06
HADCO Westbrooke, HPS	70	6,300	30	15.15
	100	9,500	43	16.02
	150	16,000	62	18.13
	200	22,000	79	20.21
	250	29,000	102	22.93
Holophane Mongoose, HPS	150	16,000	62	16.28

(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 ⁽¹⁾
Acorn LED	60	5,488	21	\$ 14.11
	70	4,332	24	16.23
Cobrahead Equivalent LED	37	2,530	13	4.66
	50	3,162	17	5.10
	52	3,757	18	5.54
	67	5,050	23	6.34
	106	7,444	36	8.45
	134	14,200	46	12.05
	156	16,300	53	13.79
	176	18,300	60	15.00
	201	21,400	69	16.45
Westbrooke LED (Non-Flare)	36	3,369	12	15.31
	53	5,079	18	17.93
	69	6,661	24	18.01
	85	8,153	29	18.78
	136	12,687	46	23.66
	206	18,159	70	26.25
Westbrooke LED (Flare)	36	3,369	12	17.15
	53	5,079	18	20.03
	69	6,661	24	20.70
	85	8,153	29	20.20
	136	12,687	46	24.74
	206	18,159	70	27.40
CREE XSP LED	25	2,529	9	3.49
	42	3,819	14	4.13
	48	4,373	16	4.78
	56	5,863	19	5.58
	91	8,747	31	6.91
Post-Top, American Revolution LED	45	3,395	15	7.46
	72	4,409	25	8.57

(1) See Schedule 100 for applicable adjustments.

(I)

**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	\$16.00		
Three Phase Service	\$22.00		
<u>Transmission and Related Services Charge</u>	0.204	¢ per kWh	
<u>Distribution Charge</u>			
First 5,000 kWh	3.903	¢ per kWh	(I)
Over 5,000 kWh	1.069	¢ per kWh	(I)
<u>Energy Charge Options</u>			
Standard Service	6.487	¢ per kWh	(I)
or			
Time-of-Use (TOU) Portfolio (enrollment is necessary)			
On-Peak Period	11.418	¢ per kWh	
Mid-Peak Period	6.487	¢ per kWh	
Off-Peak Period	3.806	¢ per kWh	(I)

* See Schedule 100 for applicable adjustments.

**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>	0.204	¢ per kWh
<u>Distribution Charge</u>	6.466	¢ per kWh
<u>Energy Charge*</u>		
On-Peak Period	6.444	¢ per kWh
Off-Peak Period	5.444	¢ per kWh

(I)
|
(I)

* 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 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>	0.271	¢ per kWh	
<u>Distribution Charge</u>			
First 50 kWh per kW of Demand***	10.383	¢ per kWh	(I)
Over 50 kWh per kW of Demand	8.383	¢ per kWh	
<u>Energy Charge</u>	7.567	¢ per kWh	(I)

* 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>	0.277	¢ per kWh
<u>Distribution Charge</u>		
First 50 kWh per kW of Demand***	7.192	¢ per kWh
Over 50 kWh per kW of Demand	5.192	¢ per kWh
<u>Energy Charge</u>	7.535	¢ per kWh

(I)
|
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* 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>	\$2,590.00	\$1,560.00	\$2,990.00
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.75	\$0.73	\$0.72
<u>Distribution Charges</u> The sum of the following: per kW of Facility Capacity			
First 4,000 kW	\$1.09	\$1.06	\$1.06
Over 4,000 kW	\$1.09	\$1.06	\$1.06
per kW of monthly On-Peak Demand	\$2.33	\$2.27	\$1.19
<u>Generation Contingency Reserves Charges</u>			
Spinning Reserves per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234
Supplemental Reserves per kW of Reserved Capacity > 2,000 kW	\$0.234	\$0.234	\$0.234
<u>System Usage Charge</u> per kWh	0.077 ¢	0.074 ¢	0.071 ¢
<u>Energy Charge</u> per kWh	See Energy Charge Below		

* See Schedule 100 for applicable adjustments.

**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)*:

Basic Charge

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

Transmission and Related Services Charge

per kW of monthly On-Peak Demand	\$0.75
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Distribution Charges**

The sum of the following:

per kW of Facility Capacity	
First 30 kW	\$2.74
Over 30 kW	\$2.64
per kW of monthly On-Peak Demand	\$2.33

Energy Charge (per kWh)

On-Peak Period***	6.915 ¢	(I)
Off-Peak Period***	5.415 ¢	(I)
See below for Daily Pricing Option description.		

System Usage Charge

per kWh	0.849 ¢	(I)
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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 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
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>	\$420.00	\$450.00	
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.75	\$0.73	
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity			
First 200 kW	\$2.97	\$2.90	
Over 200 kW	\$2.07	\$2.00	
per kW of monthly On-Peak Demand	\$2.33	\$2.27	
<u>Energy Charge (per kWh)</u>			
On-Peak Period***	6.757 ¢	6.638 ¢	(I)
Off-Peak Period***	5.257 ¢	5.138 ¢	(I)
See below for Daily Pricing Option description.			
<u>System Usage Charge</u> per kWh	0.116 ¢	0.111 ¢	(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
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>	\$2,590.00	\$1,560.00	\$2,990.00
<u>Transmission and Related Services Charge</u> per-kW of monthly On-Peak Demand	\$0.75	\$0.73	\$0.72
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity			
First 4,000 kW	\$1.09	\$1.06	\$1.06
Over 4,000 kW	\$1.09	\$1.06	\$1.06
per kW of monthly On-Peak Demand	\$2.33	\$2.27	\$1.19
<u>Energy Charge (per kWh)</u>			
On-Peak Period***	6.641 ¢	6.531 ¢	6.457 ¢
Off-Peak Period***	5.141 ¢	5.031 ¢	4.957 ¢
See below for Daily Pricing Option description.			
<u>System Usage Charge</u> per kWh	0.077 ¢	0.074 ¢	0.071 ¢

* 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.

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**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>	\$25,000.00	
<u>Transmission and Related Services Charge</u> per kW of monthly On-Peak Demand	\$0.73	
<u>Distribution Charges**</u> The sum of the following: per kW of Facility Capacity		
First 4,000 kW	\$1.03	
Over 4,000 kW	\$1.03	
per kW of monthly On-Peak Demand	\$2.27	
<u>Energy Charge (per kWh)</u> On-Peak Period***	6.184 ¢	(I)
Off-Peak Period*** See below for Daily Pricing Option description.	4.684 ¢	
<u>System Usage Charge</u> per kWh	0.059 ¢	(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 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>	0.162 ¢ per kWh	
<u>Distribution Charge</u>	5.277 ¢ per kWh	(l)
<u>Energy Charge</u>		
Cost of Service Option	5.636 ¢ per kWh	(l)

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 0.305¢ 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. 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 1st, the Customer will notify the Company by 5:00 p.m. PPT on November 15th (or the following working day if the 15th 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 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>	0.158	¢ per kWh	
<u>Distribution Charge</u>	2.288	¢ per kWh	(I)
<u>Energy Charge</u>	5.716	¢ per kWh	(I)

* 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 15th (or the following business day if the 15th 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 15th election, the move is effective on the following April 1st. 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>	0.162 ¢ per kWh	
<u>Distribution Charge</u>	5.277 ¢ per kWh	(I)
<u>Energy Charge</u>		
Cost of Service Option	5.636 ¢ per kWh	(I)

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 0.305¢ 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. 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 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 7.739 cents/kWh for Schedule 7 and 7.002 cents/kWh for Schedules 32 and 532 to weather-normalized kWh Energy sales, and b) the Fixed Charge Revenues that would be collected by applying the Monthly Fixed Charge per Customer of \$65.44 per month for Schedule 7 and \$102.84 per month for Schedules 32 and 532 to the numbers of active Schedule 7 and Schedule 32 and 532 Customers, respectively, for each month. For Schedule 7, a Secondary Fixed Charge equal to 70% of the Monthly Fixed 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. The Schedule 7 Secondary Fixed Charge is \$45.81.

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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 5.455 cents per kWh.

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**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 2015, the Annual Short-Term Transition Adjustment Rate will be applied to their bills for service effective on and after January 1, 2016:

Schedule		Annual ¢ per kWh ⁽¹⁾
32		3.876
38		3.362
75	Secondary	3.443 ⁽²⁾
	Primary	3.378 ⁽²⁾
	Subtransmission	3.410 ⁽²⁾
83		3.784
85	Secondary	3.623
	Primary	3.521

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(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 ⁽¹⁾	(1)
89	Secondary	3.443	
	Primary	3.378	
	Subtransmission	3.410	
90		3.001	
91		3.156	
95		3.156	
515		3.156	
532		3.876	
538		3.362	
549		4.967	
575	Secondary	3.443 ⁽²⁾	
	Primary	3.378 ⁽²⁾	
	Subtransmission	3.410 ⁽²⁾	
583		3.784	
585	Secondary	3.623	
	Primary	3.521	
589	Secondary	3.443	
	Primary	3.378	
	Subtransmission	3.410	
590		3.001	
591		3.156	
592		3.136	
595		3.156	(1)

(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 15th (or the next business day if the 15th is a weekend or holiday) to be effective for service on and after January 1st 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 128 (Concluded)

Second Quarter – April 1st Balance of Year Adjustment Rate ⁽¹⁾

Schedule		Annual ¢ per kWh ⁽²⁾
38		3.704
75	Secondary	3.793 ⁽³⁾
	Primary	3.723 ⁽³⁾
	Subtransmission	3.749 ⁽³⁾
83		4.128
85	Secondary	3.968
	Primary	3.868
89	Secondary	3.793
	Primary	3.723
	Subtransmission	3.749
90		3.336
91		3.470
95		3.470
538		3.704
575	Secondary	3.793 ⁽³⁾
	Primary	3.723 ⁽³⁾
	Subtransmission	3.749 ⁽³⁾
583		4.128
585	Secondary	3.968
	Primary	3.868
589	Secondary	3.793
	Primary	3.723
	Subtransmission	3.749
590		3.336
591		3.470
592		3.484
595		3.470

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(1) Applicable April 1, 2016 through December 31, 2016.
(2) Not applicable to Customers served on Cost of Service.
(3) Applicable only to the Baseline and Scheduled Maintenance Energy.

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	2.172	2.151	1.890	1.854	1.824	1.798	1.789
2018	2.172	2.151	1.890	1.854	1.824	1.798	1.789
2019	2.172	2.151	1.890	1.854	1.824	1.798	1.789
After 2019	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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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	2.866	2.832	2.695	2.647	2.590	2.295	2.455
2018	2.866	2.832	2.695	2.647	2.590	2.295	2.455
2019	2.866	2.832	2.695	2.647	2.590	2.295	2.455
2020	2.866	2.832	2.695	2.647	2.590	2.295	2.455
After 2020	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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SCHEDULE 129 (Concluded)

SPECIAL CONDITIONS

1. Annually, the total amount paid in Schedule 129 Long-Term Transition Cost Adjustments associated with Enrollment Periods A through K will be collected through applicable Large Nonresidential rate schedules (Schedules 75, 85, 89, 90, 485, 489, 490, 575, 585, 589 and 590), through either the System Usage or Distribution Charges. Commencing with Enrollment Period L, the Schedule 129 amounts paid or received will be collected from all rate schedules, through either System Usage Charges or Distribution Charges. Such adjustment to the System Usage or Distribution Charges will be made at the time the Company files final rates for Schedule 125, and will be effective on January 1st of the following calendar year.
2. Annually, changes in fixed generation revenues resulting from either return to or departure from Cost of Service pricing by Schedules 485, 489, 490, 491, 492, and 495 customers relative to the Company's most recent general rate case will be incorporated into the System Usage Charges or Distribution Charges of all rate schedules. Such adjustment to the System Usage or Distribution Charges will be made at the time the Company files final rates for Schedule 125, and will be effective on January 1st of the following calendar year. The adjustment to the System Usage or Distribution Charges resulting from changes in fixed generation revenues shall not result in an overall rate increase or decrease of more than 2 percent except as noted below. For those Enrollment Periods in which the first-year Schedule 129 Transition Adjustments are expected to be positive charges to participants, the projected first-year revenues from Schedule 129 will be netted against the changes in fixed generation costs for purposes of calculating the proposed overall rate increase or decrease. Should the rate increase or decrease exceed 2 percent, the amounts exceeding 2 percent will be deferred for future recovery through a balancing account. This balancing account will be considered an "Automatic Adjustment Clause" as defined in ORS 757.210. For purposes of calculating the percent change in rates, Schedule 125 prices with and without the increased/decreased participating load will be determined.
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	3.371
	Primary	3.307
89	Secondary	3.186
	Primary	3.127
	Subtransmission	3.093
90		3.091
91		3.052
92		3.052
95		3.052

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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 143
SPENT FUEL ADJUSTMENT**

PURPOSE

The purpose of this schedule is to implement in rates the amortization of the excess funds previously contained in the Trojan Nuclear Decommissioning Trust Fund and the pollution control tax credits associated with the Independent Spent Fuel Storage Installation at the Trojan nuclear plant.

APPLICABLE

To all bills for Electricity Service calculated under all schedules and contracts, except those Customers explicitly exempted.

PART A – TROJAN NUCLEAR DECOMMISSIONING TRUST FUND

Part A consists of the amortization of the excess funds previously contained in the Trojan Nuclear Decommissioning Trust Fund.

PART B – ISFSI ADJUSTMENT

Part B consists of the amortization of the payments from the Oregon Department of Energy related to state pollution control tax credits for the Independent Spent Fuel Storage Installation at Trojan.

ADJUSTMENT RATES

The Adjustment Rates, applicable for service on and after the effective date of this schedule, will be:

	<u>Schedule</u>	<u>Part A</u>	<u>Part B</u>	<u>Adjustment Rate</u>	
7		(0.230)	0.000	(0.230)	¢ per kWh
15		(0.186)	0.000	(0.186)	¢ per kWh
32		(0.214)	0.000	(0.214)	¢ per kWh
38		(0.199)	0.000	(0.199)	¢ per kWh
47		(0.250)	0.000	(0.250)	¢ per kWh
49		(0.249)	0.000	(0.249)	¢ per kWh
75					
	Secondary	(0.201)	0.000	(0.201)	¢ per kWh ⁽¹⁾
	Primary	(0.195)	0.000	(0.195)	¢ per kWh ⁽¹⁾
	Subtransmission	(0.193)	0.000	(0.193)	¢ per kWh ⁽¹⁾

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

SCHEDULE 143 (Continued)

ADJUSTMENT RATES (Continued)

	<u>Schedule</u>	<u>Part A</u>	<u>Part B</u>	<u>Adjustment Rate</u>	
83		(0.212)	0.000	(0.212)	¢ per kWh (R)
85					
	Secondary	(0.206)	0.000	(0.206)	¢ per kWh
	Primary	(0.201)	0.000	(0.201)	¢ per kWh
89					
	Secondary	(0.201)	0.000	(0.201)	¢ per kWh
	Primary	(0.195)	0.000	(0.195)	¢ per kWh
	Subtransmission	(0.193)	0.000	(0.193)	¢ per kWh
90		(0.183)	0.000	(0.183)	¢ per kWh
91		(0.186)	0.000	(0.186)	¢ per kWh
92		(0.189)	0.000	(0.189)	¢ per kWh
95		(0.186)	0.000	(0.186)	¢ per kWh
485					
	Secondary	(0.206)	0.000	(0.206)	¢ per kWh
	Primary	(0.201)	0.000	(0.201)	¢ per kWh
489					
	Secondary	(0.201)	0.000	(0.201)	¢ per kWh
	Primary	(0.195)	0.000	(0.195)	¢ per kWh
	Subtransmission	(0.193)	0.000	(0.193)	¢ per kWh
490		(0.183)	0.000	(0.183)	¢ per kWh
491		(0.186)	0.000	(0.186)	¢ per kWh
492		(0.189)	0.000	(0.189)	¢ per kWh
495		(0.186)	0.000	(0.186)	¢ per kWh (R)

SCHEDULE 143 (Concluded)

ADJUSTMENT RATES (Continued)

<u>Schedule</u>	<u>Part A</u>	<u>Part B</u>	<u>Adjustment Rate</u>		
515	(0.186)	0.000	(0.186)	¢ per kWh	(R)
532	(0.214)	0.000	(0.214)	¢ per kWh	
538	(0.199)	0.000	(0.199)	¢ per kWh	
549	(0.249)	0.000	(0.249)	¢ per kWh	
575					
Secondary	(0.201)	0.000	(0.201)	¢ per kWh ⁽¹⁾	
Primary	(0.195)	0.000	(0.195)	¢ per kWh ⁽¹⁾	
Subtransmission	(0.193)	0.000	(0.193)	¢ per kWh ⁽¹⁾	
583	(0.212)	0.000	(0.212)	¢ per kWh	
585					
Secondary	(0.206)	0.000	(0.206)	¢ per kWh	
Primary	(0.201)	0.000	(0.201)	¢ per kWh	
589					
Secondary	(0.201)	0.000	(0.201)	¢ per kWh	
Primary	(0.195)	0.000	(0.195)	¢ per kWh	
Subtransmission	(0.193)	0.000	(0.193)	¢ per kWh	
590	(0.183)	0.000	(0.183)	¢ per kWh	
591	(0.186)	0.000	(0.186)	¢ per kWh	
592	(0.189)	0.000	(0.189)	¢ per kWh	
595	(0.186)	0.000	(0.186)	¢ per kWh	(R)

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

BALANCING ACCOUNT

The Company will maintain balancing accounts to track the difference between the Trojan Nuclear Decommissioning Trust Fund refund and the ISFSI payments and the actual Schedule 143 revenues. This difference will accrue interest at the Commission-authorized rate for deferred accounts.

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>	\$420.00	\$450.00	
<u>Distribution Charges**</u>			
The sum of the following:			
per kW of Facility Capacity			
First 200 kW	\$2.97	\$2.90	
Over 200 kW	\$2.07	\$2.00	
per kW of monthly On-Peak Demand	\$2.33	\$2.27	
 <u>System Usage Charge</u>			
per kWh	(0.035) ¢	(0.036) ¢	(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 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>	\$2,590.00	\$1,560.00	\$2,990.00	
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.09	\$1.06	\$1.06	
Over 4,000 kW	\$1.09	\$1.06	\$1.06	
per kW of monthly On-Peak Demand	\$2.33	\$2.27	\$1.19	
<u>System Usage Charge</u>				
per kWh	(0.067) ¢	(0.068) ¢	(0.068) ¢	(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)

MONTHLY RATE

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

<u>Basic Charge</u>	\$25,000.00	
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.03	
Over 4,000 kW	\$1.03	
per kW of monthly On-Peak Demand	\$2.27	
<u>System Usage Charge</u>		
per kWh	(0.089) ¢	(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 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

5.126 ¢ per kWh

(R)

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.

Advice No. 16-12

Issued July 29, 2016

James F. Lobdell, Senior Vice President

Effective for service
on and after August 1, 2016

SCHEDULE 491 (Continued)

REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES

Labor Rates	Straight Time	Overtime ⁽¹⁾
	\$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	*	\$ 2.86	\$ 1.54	
	100	9,500	43	*	3.51	2.20	(R)
	150	16,000	62	*	4.50	3.18	
	200	22,000	79	*	5.41	4.05	
	250	29,000	102	*	6.56	5.23	
	400	50,000	163	*	9.73	8.36	
Cobrahead, Non-Power Door	70	6,300	30	\$ 6.17	3.09	1.54	
	100	9,500	43	6.81	3.74	2.20	(R)
	150	16,000	62	7.89	4.74	3.18	
	200	22,000	79	9.37	5.65	4.05	
	250	29,000	102	10.49	6.82	5.23	
	400	50,000	163	13.79	9.97	8.36	
Flood	250	29,000	102	10.92	6.88	5.23	
	400	50,000	163	14.04	10.00	8.36	
Early American Post-Top	100	9,500	43	7.21	3.79	2.20	(R)
Shoebox (Bronze color, flat	70	6,300	30	7.59	3.29	1.54	
Lens, or drop lens, multi-volt)	100	9,500	43	7.95	3.90	2.20	(R)
	150	16,000	62	9.13	4.91	3.18	

* 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	20	\$ 4.78	\$ 0.15
Fiberglass, Bronze	30	7.53	0.23
Fiberglass, Gray	30	8.12	0.25
Wood, Standard	30 to 35	5.44	0.17
Wood, Standard	40 to 55	7.11	0.22

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	\$ 10.67	\$ 4.23	\$ 2.20	(R)
HADCO Victorian, HPS	150	16,000	62	11.68	5.22	3.18	
	200	22,000	79	13.30	6.20	4.05	
	250	29,000	102	14.48	7.38	5.23	
HADCO Capitol Acorn, HPS	100	9,500	43	13.92	4.67	2.20	(R)
	150	16,000	62	14.22	5.57	3.18	
	200	22,000	79	16.58	6.64	4.05	
	250	29,000	102	16.27	7.62	5.23	
Special Architectural Types							
HADCO Independence, HPS	100	9,500	43	11.46	4.32	2.20	(R)
	150	16,000	62	11.46	5.17	3.18	
HADCO Techtra, HPS	100	9,500	43	20.06	5.49	2.20	(R)
	150	16,000	62	20.44	6.39	3.18	
	250	29,000	102	22.42	8.44	5.23	
HADCO Westbrooke, HPS	70	6,300	30	12.80	3.95	*	
	100	9,500	43	12.89	4.52	2.20	(R)
	150	16,000	62	13.87	5.50	3.18	
	200	22,000	79	14.94	6.41	4.05	
	250	29,000	102	16.29	7.61	5.23	

* 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>
Special Types						
Cobrahead, Metal Halide	150	10,000	60	\$ 8.28	\$ 4.93	\$ 3.08
Flood, Metal Halide	350	30,000	139	13.07	9.05	7.13
Flood, HPS	750	105,000	285	23.61	17.46	14.61 (R)
Holophane Mongoose, HPS	150	16,000	62	12.02	5.26	3.18
	250	29,000	102	13.47	7.22	*
Option C Only **						
Ornamental Acorn Twin	85	9,600	64	*	*	3.28
Ornamental Acorn	55	2,800	21	*	*	1.08
Ornamental Acorn Twin	55	5,600	42	*	*	2.15
Composite, Twin	140	6,815	54	*	*	2.77
	175	9,815	66	*	*	3.38 (R)

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	16	\$ 6.49	\$ 0.20
	25	10.77	0.33
	30	11.63	0.36
	35	13.91	0.43
Aluminum Davit	25	10.74	0.33
	30	10.69	0.33
	35	11.69	0.36
	40	15.86	0.49
Aluminum Double Davit	30	15.78	0.48
Aluminum, HADCO, Fluted Victorian Ornamental	14	9.50	0.29

* 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, Non-Fluted Techtra Ornamental	18	\$ 18.68	\$ 0.57
Aluminum, HADCO, Fluted Ornamental	16	9.70	0.30
Aluminum, HADCO, Non-Fluted Ornamental Westbrooke	16	19.85	0.61
Aluminum, HADCO, Fluted Westbrooke	18	18.73	0.57
Aluminum, HADCO, Non-Fluted, Westbrooke	18	19.85	0.61
Aluminum, Painted Ornamental	35	*	0.98
Concrete, Decorative Ameron	20	18.64	0.57
Concrete, Ameron Post-Top	25	18.64	0.57
Fiberglass, HADCO, Fluted Ornamental Black	14	11.48	0.35
Fiberglass, Smooth	18	4.77	0.15
Fiberglass, Regular,			
color may vary	22	4.26	0.13
color may vary	35	6.99	0.21
Fiberglass, Anchor Base, Gray	35	12.76	0.39
Fiberglass, Direct Bury with Shroud	18	7.70	0.24

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, Mercury Vapor	100	4,000	39	*	*	\$ 2.00
	175	7,000	66	\$ 7.94	\$ 4.87	3.38 (R)
	250	10,000	94	*	*	4.82
	400	21,000	147	12.88	9.16	7.54
	1,000	55,000	374	24.91	21.09	19.17 (R)

* Not offered.

SCHEDULE 491 (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>	<u>Option C</u>	
Special Box Similar to GE "Space-Glo"							
HPS	70	6,300	30	\$ 7.23	*	*	
Mercury Vapor	175	7,000	66	9.02	\$ 4.97	\$ 3.38	(R)
Special box, Anodized Aluminum							
Similar to GardCo Hub							
HPS	Twin 70	6,300	60	*	*	3.08	
	70	6,300	30	*	*	1.54	
	100	9,500	43	*	4.17	2.20	(R)
	150	16,000	62	*	5.17	3.18	
	250	29,000	102	*	*	5.23	
	400	50,000	163	*	*	8.36	
Metal Halide	250	20,500	99	*	6.32	5.07	(R)
	400	40,000	156	*	9.25	*	
Cobrahead, Metal Halide	175	12,000	71	*	5.34	3.64	
Flood, Metal Halide	400	40,000	156	13.87	9.86	8.00	
Cobrahead, Dual Wattage HPS							
70/100 Watt Ballast	100	9,500	43	*	3.76	*	(R)
100/150 Watt Ballast	100	9,500	43	*	3.76	*	(R)
100/150 Watt Ballast	150	16,000	62	*	4.75	3.18	
Special Architectural Types							
KIM SBC Shoebox, HPS	150	16,000	62	*	5.68	3.18	
KIM Archetype, HPS	250	29,000	102	*	7.78	5.23	
	400	50,000	163	*	10.58	8.36	

* 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 Acorn-Type, HPS	70	6,300	30	\$ 10.03	\$ 3.59	*	
Special GardCo Bronze Alloy							
HPS	70	5,000	30	*	*	\$ 1.54	(R)
Mercury Vapor	175	7,000	66	*	*	3.38	(R)
Early American Post-Top, HPS							
Black	70	6,300	30	6.48	3.06	1.54	
Rectangle Type	200	22,000	79	*	*	4.05	(R)
Incandescent	92	1,000	31	*	*	1.59	
	182	2,500	62	*	*	3.18	(R)
Town and Country Post-Top							
Mercury Vapor	175	7,000	66	8.33	4.91	3.38	(R)
Flood, HPS	70	6,300	30	6.05	2.98	*	
	100	9,500	43	6.68	3.75	2.20	(R)
	200	22,000	79	9.77	5.73	4.05	
Cobrahead, HPS							
Power Door	310	37,000	124	12.02	8.35	6.36	
Special Types Customer-Owned & Maintained							
Ornamental, HPS	100	9,500	43	*	*	2.20	(R)
Twin ornamental, HPS	Twin 100	9,500	86	*	*	4.41	
Compact Fluorescent	28	N/A	12	*	*	0.62	

* Not offered.

**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- 2.135 ¢ per kWh

(R)

* 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 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 5.126 ¢ per kWh (R)

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 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⁽¹⁾ Per Luminaire</u>	
Cobrahead Mercury Vapor	175	7,000	66	\$ 8.87 ⁽²⁾	(R)
	400	21,000	147	13.45 ⁽²⁾	
	1,000	55,000	374	25.48 ⁽²⁾	(R)
HPS	70	6,300	30	7.09 ⁽²⁾	
	100	9,500	43	7.74	(R)
	150	16,000	62	8.82	
	200	22,000	79	9.94	
	250	29,000	102	11.07	
	310	37,000	124	12.60 ⁽²⁾	
	400	50,000	163	14.36	
Flood , HPS	100	9,500	43	7.60 ⁽²⁾	(R)
	200	22,000	79	10.34 ⁽²⁾	
	250	29,000	102	11.49	
	400	50,000	163	14.61	
Shoebox, HPS (bronze color, flat lens, or drop lens, multi-volt)	70	6,300	30	8.51	
	100	9,500	43	8.87	(R)
	150	16,500	62	10.05	

(1) See Schedule 100 for applicable adjustments.

(2) No new service.

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⁽¹⁾ Per Luminaire</u>	
Special Acorn Type, HPS	100	9,500	43	\$ 11.24	(R)
HADCO Victorian, HPS	150	16,500	62	12.26	
	200	22,000	79	13.87	
	250	29,000	102	15.06	
Early American Post-Top, HPS, Black	100	9,500	43	8.13	(R)
Special Types					
Cobrahead, Metal Halide	150	10,000	60	9.20	
Cobrahead, Metal Halide	175	12,000	71	9.79	
Flood, Metal Halide	350	30,000	139	13.64	
Flood, Metal Halide	400	40,000	156	14.44	
Flood, HPS	750	105,000	285	24.18	(R)
HADCO Independence, HPS	100	9,500	43	12.04	(R)
	150	16,000	62	12.03	
HADCO Capitol Acorn, HPS	100	9,500	43	14.49	(R)
	150	16,000	62	14.79	
	200	22,000	79	17.15	
	250	29,000	102	16.84	
HADCO Techtra, HPS	100	9,500	43	20.63	(R)
	150	16,000	62	21.01	
	250	29,000	102	22.99	
HADCO Westbrooke, HPS	70	6,300	30	13.37	
	100	9,500	43	13.46	(R)
	150	16,000	62	14.44	
	200	22,000	79	15.51	
	250	29,000	102	16.86	
Holophane Mongoose, HPS	150	16,000	62	12.59	

(1) See Schedule 100 for applicable adjustments.

**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		\$16.00	
Three Phase		\$22.00	
<u>Distribution Charge</u>			
First 5,000 kWh		3.729 ¢ per kWh	(R)
Over 5,000 kWh		0.895 ¢ 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>	6.305	¢ per kWh	(R)

* 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		6.989 ¢ per kWh	(R)
Over 50 kWh per kW of Demand		4.989 ¢ per kWh	(R)

* 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	\$2,590.00	\$1,560.00	\$2,990.00	
<u>Distribution Charge</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.09	\$1.06	\$1.06	
Over 4,000 kW	\$1.09	\$1.06	\$1.06	
per kW of monthly On-Peak Demand**	\$2.33	\$2.27	\$1.19	
<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	(0.067) ¢	(0.068) ¢	(0.068) ¢	(R)

* 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 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	\$2.74
Over 30 kW	\$2.64
per kW of monthly On-Peak Demand	\$2.33

System Usage Charge

per kWh	0.677 ¢
---------	---------

(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 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>	\$420.00	\$450.00	
<u>Distribution Charges**</u>			
The sum of the following:			
per kW of Facility Capacity			
First 200 kW	\$2.97	\$2.90	
Over 200 kW	\$2.07	\$2.00	
per kW of monthly On-Peak Demand	\$2.33	\$2.27	
<u>System Usage Charge</u>			
per kWh	(0.035) ¢	(0.036) ¢	(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>	\$2,590.00	\$1,560.00	\$2,990.00	
<u>Distribution Charges**</u>				
The sum of the following:				
per kW of Facility Capacity				
First 4,000 kW	\$1.09	\$1.06	\$1.06	
Over 4,000 kW	\$1.09	\$1.06	\$1.06	
per kW of monthly on-peak Demand	\$2.33	\$2.27	\$1.19	
<u>System Usage Charge</u>				
per kWh	(0.067) ¢	(0.068) ¢	(0.068) ¢	(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 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>	\$25,000.00	
<u>Distribution Charges**</u>		
The sum of the following:		
per kW of Facility Capacity		
First 4,000 kW	\$1.03	
Over 4,000 kW	\$1.03	
per kW of monthly on-peak Demand	\$2.27	
<u>System Usage Charge</u>		
per kWh	(0.089) ¢	(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>	5.126 ¢ per kWh	(R)
<u>Energy Charge</u>	Provided by Energy Service Supplier	

NOVEMBER ELECTION WINDOW

The November Election Window begins at 2:00 p.m. on November 15th (or the following business day if the 15th 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 1st. Customers may notify the Company of a choice to change service options using the Company's website, PortlandGeneral.com/business

SCHEDULE 591 (Continued)

REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES

Labor Rates	Straight Time	Overtime ⁽¹⁾
	\$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	*	\$ 2.86	\$ 1.54	
	100	9,500	43	*	3.51	2.20	(R)
	150	16,000	62	*	4.50	3.18	
	200	22,000	79	*	5.41	4.05	
	250	29,000	102	*	6.56	5.23	
	400	50,000	163	*	9.73	8.36	
Cobrahead, Non-Power Door	70	6,300	30	\$ 6.17	3.09	1.54	
	100	9,500	43	6.81	3.74	2.20	(R)
	150	16,000	62	7.89	4.74	3.18	
	200	22,000	79	9.37	5.65	4.05	
	250	29,000	102	10.49	6.82	5.23	
	400	50,000	163	13.79	9.97	8.36	
Flood	250	29,000	102	10.92	6.88	5.23	
	400	50,000	163	14.04	10.00	8.36	
Early American Post-Top	100	9,500	43	7.21	3.79	2.20	(R)
Shoebox (Bronze color, flat	70	6,300	30	7.59	3.29	1.54	
Lens, or drop lens, multi-volt)	100	9,500	43	7.95	3.90	2.20	(R)
	150	16,000	62	9.13	4.91	3.18	

* 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

<u>Type of Pole</u>	<u>Pole Length (feet)</u>	<u>Monthly Rates</u>	
		<u>Option A</u>	<u>Option B</u>
Fiberglass, Black	20	\$ 4.78	\$ 0.15
Fiberglass, Bronze	30	7.53	0.23
Fiberglass, Gray	30	8.12	0.25
Wood, Standard	30 to 35	5.44	0.17
Wood, Standard	40 to 55	7.11	0.22

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	\$ 10.67	\$ 4.23	\$ 2.20	(R)
HADCO Victorian, HPS	150	16,000	62	11.68	5.22	3.18	
	200	22,000	79	13.30	6.20	4.05	
	250	29,000	102	14.48	7.38	5.23	
HADCO Capitol Acorn, HPS	100	9,500	43	13.92	4.67	2.20	(R)
	150	16,000	62	14.22	5.57	3.18	
	200	22,000	79	16.58	6.64	4.05	
	250	29,000	102	16.27	7.62	5.23	
Special Architectural Types							
HADCO Independence, HPS	100	9,500	43	11.46	4.32	2.20	(R)
	150	16,000	62	11.46	5.17	3.18	
HADCO Techtra, HPS	100	9,500	43	20.06	5.49	2.20	(R)
	150	16,000	62	20.44	6.39	3.18	
	250	29,000	102	22.42	8.44	5.23	
HADCO Westbrooke, HPS	70	6,300	30	12.80	3.95	*	
	100	9,500	43	12.89	4.52	2.20	(R)
	150	16,000	62	13.87	5.50	3.18	
	200	22,000	79	14.94	6.41	4.05	
	250	29,000	102	16.29	7.61	5.23	

* 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>
Special Types						
Cobrahead, Metal Halide	150	10,000	60	\$ 8.28	\$ 4.93	\$ 3.08
Flood, Metal Halide	350	30,000	139	13.07	9.05	7.13
Flood, HPS	750	105,000	285	23.61	17.46	14.61 (R)
Holophane Mongoose, HPS	150	16,000	62	12.02	5.26	3.18
	250	29,000	102	13.47	7.22	*
Option C Only **						
Ornamental Acorn Twin	85	9,600	64	*	*	3.28
Ornamental Acorn	55	2,800	21	*	*	1.08
Ornamental Acorn Twin	55	5,600	42	*	*	2.15
Composite, Twin	140	6,815	54	*	*	2.77
	175	9,815	66	*	*	3.38 (R)

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	16	\$ 6.49	\$ 0.20
	25	10.77	0.33
	30	11.63	0.36
	35	13.91	0.43
Aluminum Davit	25	10.74	0.33
	30	10.69	0.33
	35	11.69	0.36
	40	15.86	0.49
Aluminum Double Davit	30	15.78	0.48
Aluminum, HADCO, Fluted Victorian Ornamental	14	9.50	0.29

* 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</u> <u>(feet)</u>	<u>Monthly Rates</u>	
		<u>Option A</u>	<u>Option B</u>
Aluminum, HADCO, Non-Fluted Techtra Ornamental	18	\$ 18.68	\$ 0.57
Aluminum, HADCO, Fluted Ornamental	16	9.70	0.30
Aluminum, HADCO, Non-Fluted Ornamental Westbrooke	16	19.85	0.61
Aluminum, HADCO, Fluted Westbrooke	18	18.73	0.57
Aluminum, HADCO, Non-Fluted, Westbrooke	18	19.85	0.61
Aluminum, Painted Ornamental	35	*	0.98
Concrete, Decorative Ameron	20	18.64	0.57
Concrete, Ameron Post-Top	25	18.64	0.57
Fiberglass, HADCO, Fluted Ornamental Black	14	11.48	0.35
Fiberglass, Smooth	18	4.77	0.15
Fiberglass, Regular, color may vary	22	4.26	0.13
color may vary	35	6.99	0.21
Fiberglass, Anchor Base, Gray	35	12.76	0.39
Fiberglass, Direct Bury with Shroud	18	7.70	0.24

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, Mercury Vapor	100	4,000	39	*	*	\$ 2.00
	175	7,000	66	\$ 7.94	\$ 4.87	3.38 (R)
	250	10,000	94	*	*	4.82
	400	21,000	147	12.88	9.16	7.54
	1,000	55,000	374	24.91	21.09	19.17 (R)

* Not offered.

SCHEDULE 591 (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>	<u>Option C</u>	
Special Box Similar to GE "Space-Glo"							
HPS	70	6,300	30	\$ 7.23	*	*	
Mercury Vapor	175	7,000	66	9.02	\$ 4.97	\$ 3.38	(R)
Special box, Anodized Aluminum							
Similar to GardCo Hub							
HPS	Twin 70	6,300	60	*	*	3.08	
	70	6,300	30	*	*	1.54	
	100	9,500	43	*	4.17	2.20	(R)
	150	16,000	62	*	5.17	3.18	
	250	29,000	102	*	*	5.23	
	400	50,000	163	*	*	8.36	
Metal Halide	250	20,500	99	*	6.32	5.07	(R)
	400	40,000	156	*	9.25	*	
Cobrahead, Metal Halide	175	12,000	71	*	5.34	3.64	
Flood, Metal Halide	400	40,000	156	13.87	9.86	8.00	
Cobrahead, Dual Wattage HPS							
70/100 Watt Ballast	100	9,500	43	*	3.76	*	(R)
100/150 Watt Ballast	100	9,500	43	*	3.76	*	(R)
100/150 Watt Ballast	150	16,000	62	*	4.75	3.18	
Special Architectural Types							
KIM SBC Shoebox, HPS	150	16,000	62	*	5.68	3.18	
KIM Archetype, HPS	250	29,000	102	*	7.78	5.23	
	400	50,000	163	*	10.58	8.36	

* 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 Acorn-Type, HPS	70	6,300	30	\$ 10.03	\$ 3.59	*	
Special GardCo Bronze Alloy							
HPS	70	5,000	30	*	*	\$ 1.54	(R)
Mercury Vapor	175	7,000	66	*	*	3.38	(R)
Early American Post-Top, HPS							
Black	70	6,300	30	6.48	3.06	1.54	
Rectangle Type	200	22,000	79	*	*	4.05	(R)
Incandescent	92	1,000	31	*	*	1.59	
	182	2,500	62	*	*	3.18	(R)
Town and Country Post-Top							
Mercury Vapor	175	7,000	66	8.33	4.91	3.38	(R)
Flood, HPS	70	6,300	30	6.05	2.98	*	
	100	9,500	43	6.68	3.75	2.20	(R)
	200	22,000	79	9.77	5.73	4.05	
Cobrahead, HPS							
Power Door	310	37,000	124	12.02	8.35	6.36	
Special Types Customer-Owned & Maintained							
Ornamental, HPS	100	9,500	43	*	*	2.20	(R)
Twin ornamental, HPS	Twin 100	9,500	86	*	*	4.41	
Compact Fluorescent	28	N/A	12	*	*	0.62	

* Not offered.

**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	2.135 ¢ per kWh	(R)
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* 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>	5.126 ¢ per kWh	(R)
<u>Energy Charge</u>	Provided by Energy Service Supplier	

REPLACEMENT OF NON-REPAIRABLE LUMINAIRES INSTALLATION LABOR RATES

Labor Rates	Straight Time	Overtime ⁽¹⁾
	\$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	\$ 3.56
LED	50	3,162	17	3.76
LED	52	3,757	18	4.14
LED	67	5,050	23	4.78
LED	106	7,444	36	6.12
LED	134	14,200	46	9.74
LED	156	16,300	53	11.06
LED	176	18,300	60	11.86
LED	201	21,400	69	12.77

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	0.316 ¢ per kWh	Distribution Charge	(l)
15	0.543 ¢ per kWh	Distribution Charge	
32	0.289 ¢ per kWh	Distribution Charge	
38	0.332 ¢ per kWh	Distribution Charge	
47	0.671 ¢ per kWh	Distribution Charge	
49	0.571 ¢ per kWh	Distribution Charge	
75			
Secondary	0.178 ¢ per kWh	System Usage Charge	
Primary	0.175 ¢ per kWh	System Usage Charge	
Subtransmission	0.173 ¢ per kWh	System Usage Charge	

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	0.234 ¢ per kWh	System Usage Charge	(I)
85			
Secondary	0.207 ¢ per kWh	System Usage Charge	
Primary	0.202 ¢ per kWh	System Usage Charge	
89			
Secondary	0.178 ¢ per kWh	System Usage Charge	
Primary	0.175 ¢ per kWh	System Usage Charge	
Subtransmission	0.173 ¢ per kWh	System Usage Charge	
90	0.162 ¢ per kWh	System Usage Charge	
91	0.477 ¢ per kWh	Distribution Charge	
92	0.207 ¢ per kWh	Distribution Charge	(I)
95	0.477 ¢ per kWh	Distribution Charge	
485			
Secondary	0.056 ¢ per kWh	System Usage Charge	
Primary	0.055 ¢ per kWh	System Usage Charge	
489			
Secondary	0.034 ¢ per kWh	System Usage Charge	
Primary	0.034 ¢ per kWh	System Usage Charge	
Subtransmission	0.034 ¢ per kWh	System Usage Charge	
490	0.014 ¢ per kWh	System Usage Charge	
491	0.325 ¢ per kWh	Distribution Charge	
492	0.055 ¢ per kWh	Distribution Charge	
495	0.325 ¢ per kWh	Distribution Charge	

DO NOT BILL

PGE Advice No. 16-12
Attachment A

Attestation of Maria M. Pope
Senior Vice President Power Supply and Operations
and Resource Planning

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UE 294

In the Matter of

PORTLAND GENERAL ELECTRIC
COMPANY's

Request for a General Rate Revision

**ATTESTATION OF
MARIA M. POPE**

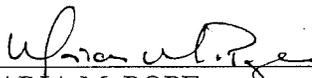
I, Maria M. Pope, being first duly sworn on oath, depose and say:

1. My full name is Maria M. Pope. I am Senior Vice President of Power Supply and Operations and Resource Strategy for Portland General Electric Company.

2. In accordance with the final order in this docket, Order 15-356, I attest to the following:

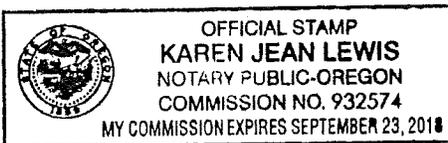
3. On July 29, 2016, the Carty plant was placed in service and released to the system dispatcher for full commercial operation.

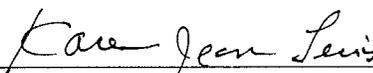
SIGNED this 29 day of July, 2016.



MARIA M. POPE

SUBSCRIBED AND SWORN to before me this ^e29 day of July, 2016.





Notary Public for Oregon
My Commission Expires: Sept. 23, 2018