

**EXHIBIT NO. ___(JAP-21)
DOCKETS UE-17___/UG-17___
2017 PSE GENERAL RATE CASE
WITNESS: JON A. PILIARIS**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

Docket UE-17___

Docket UG-17___

**TWENTIETH EXHIBIT (NONCONFIDENTIAL) TO THE
PREFILED DIRECT TESTIMONY OF**

JON A. PILIARIS

ON BEHALF OF PUGET SOUND ENERGY

JANUARY 13, 2017

Puget Sound Energy
Development of Unitized Lighting Costs
2017 General Rate Case
Test Year Ending September 30, 2016

Line No.	Cost (a)	Unitized Revenue	
		(b)	(c) (d)
1	Capital		
2		Capital (Sch 50, 53, 54, 55, 56, 57, 58, 59)	
3		Total Revenue Required from Distribution Capital (Lamps)	\$4,792,235.87
4		Total Revenue Required from Distribution Capital (Poles)	\$3,516,337.34
5		% of Distribution Cap. (Poles) Required from Rentals	2.25%
6		Dist. Cap. (Poles) Revenue Required from Rental Poles	\$79,132.46
7		Total Capital Revenue Required Less Pole Rental	\$8,229,440.76
8		Recovery from 51&52 Capital Facilities Charge	\$0.00
9		Revenue Required from Lamps Less Facilities charge Recovery	\$8,229,440.76
10			
11		Total Install Cost of other Lamps	\$86,198,074.01
12		Recovery per Install Dollar Capital Cost (Annually)	\$0.09547
13		Recovery per Install Dollar Capital Cost (Monthly)	\$0.00796
14			
15		Capital (Sch 55, 56, 58, 59 Pole Rental)	
16		Total Revenue Required from Pole Rentals	\$79,132.46
17		Total Capital Cost of Rented Poles	\$1,993,811.35
18		Per Install Dollar Capital Cost (Annually)	\$0.03969
19		Per Install Dollar Capital Cost (Monthly)	\$0.00331
20			
21		Capital (Sch 51, 52 Facilities Charge)	
22		Total Revenue Required from Capital (Lamps and Poles)	\$8,229,440.76
23		Ratio of Revenue Requirement to System Value	15.90%
24		System Value of 51&52 under option A	\$0.00
25		Revenue from 51&52 Option A Capital Facilities Charge	\$0.00
26		Annual Capital Facilities Charge Percentage	15.90%
27		Monthly Capital Facilities Charge Percentage	1.32%
28	O&M		
29		Distribution O&M (Sch 50, 53, 54, 55, 56, 57, 58, 59)	
30		Total Revenue Required From Rates	\$3,826,888.06
31		Recovery from 51&52 O&M Facilities Charge	\$1,648,729.35
32		Revenue Required from Lamps Less Facilities charge Recovery	\$2,178,158.71
33			
34		Total Count of O&M Eligible Lamps	78,697.60
35		Per Lamp O&M Cost (Annually)	\$27.67757
36		Per Lamp O&M Cost (Monthly)	\$2.30646
37			
38		Distribution O&M (Sch 51, 52 Facilities Charge)	
39		Total Revenue Required From Rates	\$3,826,888.06
40		Ratio of O&M to Distribution Capital	2.78%
41		System Value of 51&52 under option A & B	\$59,244,560.00
42		Recovery from 51&52 O&M Facilities Charge	\$1,648,729.35
43			
44		Annual O&M Facilities Charge Percentage	2.78292%
45		Monthly O&M Facilities Charge Percentage	0.23191%
46	Customer		
47		Customer Expense (Sch 50, 51, 52, 53, 54, 55, 56, 58, 59)	
48		Total number of Customers	7226
49		Number of Schedule 57 Customers	109
50		Number of Customers Less Schedule 57 Customers	7117
51		% of Non-Schedule 57 Customers	98.49%
52		Total Revenue Required From Rates	\$1,284,196.40

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Line No.	Cost	Unitized Revenue	
	(a)	(b)	(c) (d)
53		Amount of Revenue Required from non-57	\$1,264,825.05
54			
55		Total Count of kWh (annual)	66,845,028.60
56		Per kWh Customer Cost	<u>\$0.01892</u>
57			
58		Customer Expense (Sch 57)	
59		Total number of Customers	7226
60		Number of Schedule 57 Customers	109
61		Number of Customers Less Schedule 57 Customers	7117
62		% of Schedule 57 Customers	1.51%
63		Total Revenue Required From Rates	\$1,284,196.40
64		Amount of Revenue Required from non-57	\$19,371.35
65			
66		Total Count of Schedule 57 Connected Watts	1,295,805.00
67		Per Watt Customer Cost (Annually)	\$0.01495
68		Per Watt Customer Cost (Monthly)	<u>\$0.00125</u>
69	Demand		
70		Demand Components (Sch 57)	
71		Production / Transmission (Demand-related) Revenue Requirement	\$1,984,427.58
72		A&G Component of Revenue Requirement	\$65,510.78
73		Total Revenue Required	\$2,049,938.36
74		Continuous Street Light % of Demand	4.88%
75		Continuous Street Light Portion of Revenue Requirement	\$99,944.85
76		Total Count of Continuous Street kW	1,295.81
77		Per kW Demand Cost (Annually)	\$77.12955
78		Per kW Demand Cost (Monthly)	<u>\$6.42746</u>
79			
80		Demand Components (Sch 50, 51, 52, 53, 54)	
81		Production / Transmission (Demand-related) Revenue Requirement	\$1,984,427.58
82		A&G Component of Revenue Requirement	\$65,510.78
83		Total Revenue Required From Rates	\$2,049,938.36
84		Non-Continuous Street Light % of Demand	87.00%
85		Non-Continuous Street Light Portion of Revenue Requirement	\$1,783,348.04
86		Total Count of Non-Continuous Street kW	14,604.61
87		Per kW Demand Cost (Annually)	\$122.10859
88		Per kW Demand Cost (Monthly)	<u>\$10.17572</u>
89			
90		Demand Components (Sch 55, 56, 58, 59)	
91		Production / Transmission (Demand-related) Revenue Requirement	\$1,984,427.58
92		A&G Component of Revenue Requirement	\$65,510.78
93		Total Revenue Required From Rates	\$2,049,938.36
94		Non-Continuous Area Light % of Demand	8.13%
95		Non-Continuous Area Light Portion of Revenue Requirement	\$166,645.47
96		Total Count of Non-Continuous Area kW	1,310.88
97		Per kW Demand Cost (Annually)	\$127.12537
98		Per kW Demand Cost (Monthly)	<u>\$10.59378</u>
99	Energy		
100		Commodity Components (Sch 50, 51, 52, 53, 54, 55, 56, 57, 58, 59)	
101		Production / Transmission (Energy-related) Revenue Requirement	\$3,519,715.38
102		A&G Component of Revenue Requirement	\$158,734.51
103		Total Revenue Required From Rates	\$3,678,449.89
104		Total Count of kWh (annual)	78,196,280.40
105		Per kWh Commodity Cost (Annually)	<u>\$0.04704</u>