

EXHIBIT LIST
PSE 2017 GRC

Dockets UE-170033 and UG-170034

COMMISSION REGULATORY STAFF				
Jason L. Ball, Regulatory Analyst				
<u>JLB-1T</u>	Jason L. Ball			Prefiled Response Testimony of Jason L. Ball (56 pages) (6/30/17)
<u>JLB-2</u>	Jason L. Ball			Comparison of Staff and Company Electric Cost of Service Study Results and Rate Design Proposals
<u>JLB-3</u>	Jason L. Ball			Comparison of Staff and Company Natural Gas Rates
<u>JLB-4C</u>	Jason L. Ball			***CONFIDENTIAL*** Seasonal Rate Design Technical Appendix
<u>JLB-5</u>	Jason L. Ball			Bill Impact of Increased Basic Charge
<u>JLB-6</u>	Jason L. Ball			Third Block Technical Appendix
<u>JLB-7</u>	Jason L. Ball			PSE Response to Staff DRs 103 and 104
<u>JLB-8T</u>	Jason L. Ball			Supplemental Testimony of Jason L. Ball (8/7/17) (8 pages)
<u>JLB-9</u>	Jason L. Ball			Cross-Walk of Impacts on Cost of Service from Various Updates
<u>JLB-10</u>	Jason L. Ball			PSE 1 st Revised Response to Staff DR 443
<u>JLB-11</u>	Jason L. Ball			Staff Response to PSE DR 24
<u>JLB-12T</u>	Jason L. Ball			Prefiled Cross-Answering Testimony of Jason L. Ball (8 pages) (8/9/17)
CROSS-EXAMINATION EXHIBITS				
<u>JLB-</u>	The Energy Project			Staff Response to The Energy Project Data Request No. 4
<u>JLB-</u>	The Energy Project			Staff Response to The Energy Project Data Request No. 6

EXHIBIT LIST
PSE 2017 GRC

Dockets UE-170033 and UG-170034

JLB-	The Energy Project			Staff Response to The Energy Project Data Request No. 8. (Attachment A Included)
JLB-	The Energy Project			Staff Response to The Energy Project Data Request No. 10 (Attachments A and B Included)

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION STAFF
RESPONSE TO DATA REQUEST

DATE PREPARED: August 25, 2017
DOCKETS: UE-170033/UG-170034
REQUESTER: The Energy Project

WITNESS: Jason L. Ball
RESPONDER: Jason L. Ball
TELEPHONE: (360) 664-1279

REQUEST NO. 10:

RE: Testimony of Jason L. Ball, Exh. JLB-1T, at 42, Figure 5

Please provide versions of Figure 5 (Bill Impact of Staff Electric Rate Design on Low-Income Customers) using:

- a. Public Counsel's proposed revenue requirement; and
- b. PSE's current revenue requirement (status quo, prior to GRC filing).

RESPONSE:

- a. Please see Attachment A
- b. Please see Attachment B

ATTACHMENT A

**TO UTC STAFF RESPONSE TO THE ENERGY PROJECT
DATA REQUEST NO. 10**

Puget Sound Energy
 Monthly Billing Comparison
 Schedule 7
 Residential Service - Winter

kWh	Customers	Monthly Energy Change ¹			Precedent Price (Per) \$	Precedent Price (Per) \$	Change %
		%	Precedent	Proposed			
0	0	0.05%	\$7.87	\$10.88	\$3.01	38.25%	
35	35	0.55%	\$11.13	\$10.88	(\$0.25)	-2.25%	
60	60	0.55%	\$13.46	\$13.30	(\$0.16)	-1.19%	
100	100	1.27%	\$17.19	\$17.04	(\$0.15)	-0.87%	
200	200	4.87%	\$25.50	\$25.37	(\$0.13)	-0.49%	
300	300	7.82%	\$32.82	\$32.69	(\$0.13)	-0.39%	
400	400	9.37%	\$45.14	\$45.02	(\$0.12)	-0.27%	
500	500	9.66%	\$54.46	\$54.35	(\$0.11)	-0.20%	
600	600	8.82%	\$74.97	\$75.48	\$0.51	0.68%	
700	700	7.72%	\$85.77	\$85.77	\$0.00	0.00%	
800	800	4.54%	\$108.57	\$108.57	\$0.00	0.00%	
1,000	1,000	5.89%	\$119.77	\$118.87	(\$0.90)	-0.75%	
1,200	1,200	3.78%	\$130.97	\$132.66	\$1.69	1.29%	
1,300	1,300	3.12%	\$142.17	\$144.25	\$2.08	1.46%	
1,400	1,400	2.54%	\$153.37	\$158.05	\$4.68	3.05%	
1,600	1,600	4.56%	\$179.77	\$182.47	\$2.70	1.50%	
1,800	1,800	4.56%	\$220.57	\$228.83	\$8.26	3.74%	
2,000	2,000	2.64%	\$276.57	\$287.80	\$11.23	4.06%	
3,000	3,000	1.18%	\$332.57	\$346.78	\$14.21	4.27%	
3,500	3,500	0.55%	\$388.56	\$405.76	\$17.20	4.43%	
>3500	>3500	0.71%					

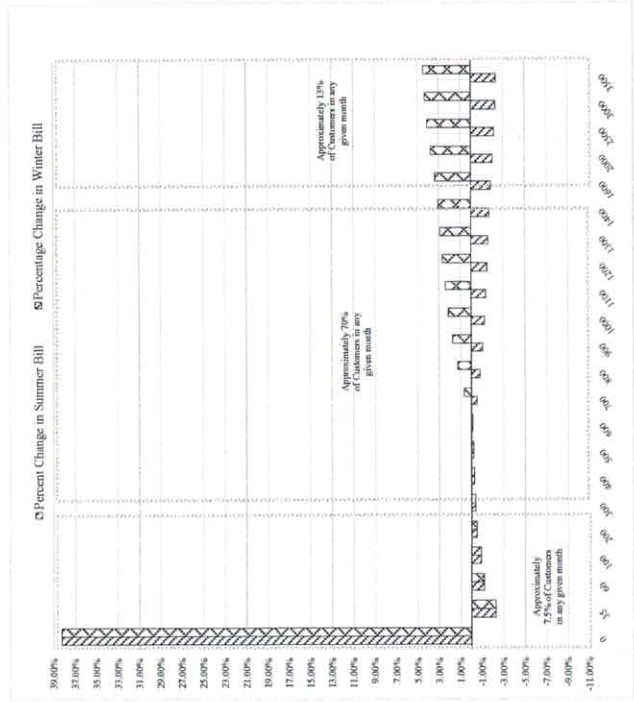
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1,800	1,800	4.56%	\$220.57	\$228.83	\$8.26	3.74%	
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3,500	3,500	0.55%	\$388.56	\$405.76	\$17.20	4.43%	
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Notes:
 * Average PSE Customer
 † Includes Rate Schedules 95, 96, 120, 121, 122, 123, 124, 141, 142, and 194

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 * Average PSE Customer
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Notes:
 * Average PSE Customer
 † Includes Rate Schedules 95, 96, 120, 121, 122, 123, 124, 141, 142, and 194



SCHEDULE 7 (RATE DESIGN)

Residential Service

Basic Charge	999698.3333		
Single Phase	11,996,380	\$	7.49
Three Phase	2,918	\$	17.99
Minimum Bill	11,999,298	\$	-
Subtotal	<u>11,999,298</u>		
Energy Charge			
Mimimum Summer Bill	207,940,880	\$	0.085578
Summer Block 1	2,605,408,326	\$	0.085578
Summer Block 2	1,254,137,443	\$	0.104157
Minimum Winter Bill	206,462,025	\$	0.085578
Winter 1st Block	2,953,966,892	\$	0.085578
Winter 2nd Block	2,999,901,179	\$	0.104157
Subtotal	<u>10,227,816,745</u>		
Temperature Adjustment	291,310,493	\$	0.104157
Unbilled	<u>(28,359,905)</u>	\$	0.102153
Total	<u><u>10,490,767,333</u></u>		

\$89,852,886	\$	7.71	\$92,447,343
\$52,495	\$	18.50	\$53,983
\$0	\$	3.17	\$38,082,532
<u>\$89,905,381</u>			<u>\$130,583,858</u>
\$17,795,165	Included in Minimum Bill		
\$222,965,634	\$	0.090678	\$236,253,216
\$130,627,194	\$	0.106275	\$133,282,975
\$17,668,607	Included in Minimum Bill		
\$252,794,579	\$	0.090678	\$267,859,810
\$312,460,707	\$	0.115342	\$346,015,850
<u>\$954,311,886</u>			<u>\$983,411,851</u>
\$30,342,027	\$	0.115342	\$33,600,456
(\$2,897,049)	\$	0.109096	(\$3,093,952)
<u>\$1,071,662,245</u>			<u>\$1,144,502,213</u>

Cost Based \$ 10.88000 \$ 130,520,614.40
Cost Based (Retain 1ph/3ph relationship) \$ 26.10

Adjust for residual

Retain current differential between first two blocks
Long-run Avoided Cost of Power & Delivery

Set equal to tailblock

Average Increase

Target Dollars	\$1,144,507,136	6.80%
Difference	\$4,923	

ATTACHMENT B

**TO UTC STAFF RESPONSE TO THE ENERGY PROJECT
DATA REQUEST NO. 10**

Puget Sound Energy
 Monthly Billing Comparison
 Schedule 7
 Residential Service - Winter

kWh	Monthly Energy Charge			
	Customers	Present	Proposed	Change
0	0.05%	\$7.87	\$10.88	\$3.01
5	0.35%	\$11.13	\$10.88	(\$0.25)
10	0.70%	\$17.19	\$10.88	(\$6.31)
15	1.05%	\$17.19	\$12.46	(\$4.73)
200	4.87%	\$26.50	\$26.59	\$0.09
300	7.62%	\$35.82	\$35.72	(\$0.10)
400	9.37%	\$45.14	\$44.85	(\$0.29)
500	10.00%	\$54.46	\$53.99	(\$0.47)
600	9.66%	\$63.77	\$63.12	(\$0.65)
700	9.32%	\$73.09	\$72.34	(\$0.75)
800	7.72%	\$82.41	\$81.53	(\$0.88)
900	6.45%	\$91.73	\$91.34	(\$0.39)
1,000	5.49%	\$101.05	\$101.75	\$0.70
1,200	3.78%	\$120.97	\$121.57	\$0.60
1,400	2.44%	\$140.89	\$141.98	\$1.09
1,600	1.48%	\$160.81	\$162.37	\$1.56
2,000	0.59%	\$200.73	\$202.83	\$2.10
2,500	1.18%	\$250.65	\$253.82	\$3.17
3,000	0.35%	\$300.57	\$303.56	\$2.99
>3,000	0.71%			

Basic 1 Phase	Present Price (Per)		Proposed Price (Per)	
	\$	%	\$	%
Basic 1 Phase	\$ 7.87		\$ 8.31	
Energy - First 600	\$ 0.09121		\$ 0.09112	
Energy - Over 600	\$ 0.11196		\$ 0.11571	

kWh	Monthly Energy Charge			
	Customers	Present	Proposed	Change
0	0.05%	\$3.01	\$3.01	\$0.00
5	0.35%	\$3.01	\$3.01	\$0.00
10	0.70%	\$3.01	\$3.01	\$0.00
15	1.05%	\$3.01	\$3.01	\$0.00
200	4.87%	\$26.50	\$26.59	\$0.09
300	7.62%	\$35.82	\$35.72	(\$0.10)
400	9.37%	\$45.14	\$44.85	(\$0.29)
500	10.00%	\$54.46	\$53.99	(\$0.47)
600	9.66%	\$63.77	\$63.12	(\$0.65)
700	9.32%	\$73.09	\$72.34	(\$0.75)
800	7.72%	\$82.41	\$81.53	(\$0.88)
900	6.45%	\$91.73	\$91.34	(\$0.39)
1,000	5.49%	\$101.05	\$101.75	\$0.70
1,200	3.78%	\$120.97	\$121.57	\$0.60
1,400	2.44%	\$140.89	\$141.98	\$1.09
1,600	1.48%	\$160.81	\$162.37	\$1.56
2,000	0.59%	\$200.73	\$202.83	\$2.10
2,500	1.18%	\$250.65	\$253.82	\$3.17
3,000	0.35%	\$300.57	\$303.56	\$2.99
>3,000	0.71%			

Puget Sound Energy
 Monthly Billing Comparison
 Schedule 7
 Residential Service - Summer

kWh	Monthly Energy Charge			
	Customers	Present	Proposed	Change
0	0.05%	\$3.01	\$3.01	\$0.00
5	0.35%	\$3.01	\$3.01	\$0.00
10	0.70%	\$3.01	\$3.01	\$0.00
15	1.05%	\$3.01	\$3.01	\$0.00
200	4.87%	\$26.50	\$26.59	\$0.09
300	7.62%	\$35.82	\$35.72	(\$0.10)
400	9.37%	\$45.14	\$44.85	(\$0.29)
500	10.00%	\$54.46	\$53.99	(\$0.47)
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700	9.32%	\$73.09	\$72.34	(\$0.75)
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1,200	3.78%	\$120.97	\$121.57	\$0.60
1,400	2.44%	\$140.89	\$141.98	\$1.09
1,600	1.48%	\$160.81	\$162.37	\$1.56
2,000	0.59%	\$200.73	\$202.83	\$2.10
2,500	1.18%	\$250.65	\$253.82	\$3.17
3,000	0.35%	\$300.57	\$303.56	\$2.99
>3,000	0.71%			

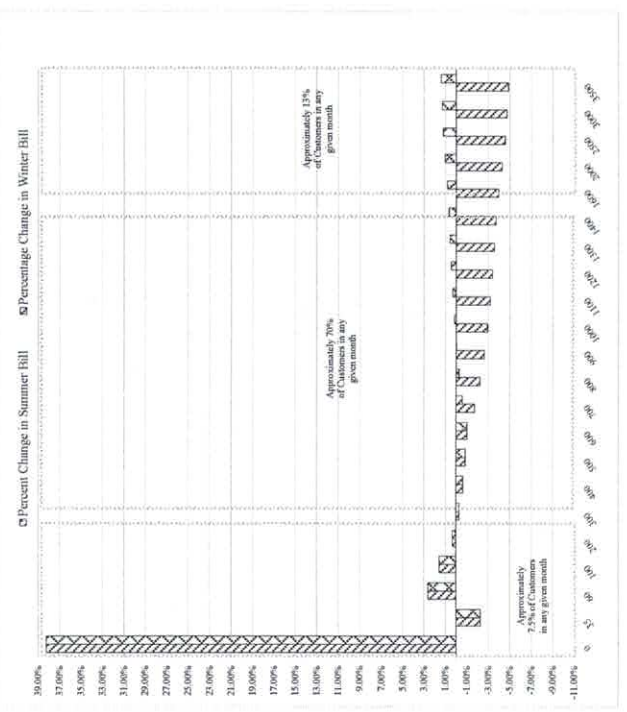
Basic 1 Phase	Present Price (Per)		Proposed Price (Per)	
	\$	%	\$	%
Basic 1 Phase	\$ 7.87		\$ 8.31	
Energy - First 600	\$ 0.09121		\$ 0.09112	
Energy - Over 600	\$ 0.11196		\$ 0.11571	

New Block 1		New Block 2	
Present Price (Per)	\$ 7.87	Proposed Price (Per)	\$ 8.31
Percent Price (Per)	0.09121	Percent Price (Per)	0.09112
Percent Price (Per)	0.11196	Percent Price (Per)	0.11571

Rider Schedules	
Schedule 95 - PCA	\$ (0.00333)
Schedule 95A - Fed Ins Credit	\$ (0.002767)
Schedule 120 - Conservation	\$ 0.006075
Schedule 129 - Low Income	\$ 0.000913
Schedule 137 - Rider Credit	\$ (0.000368)
Schedule 140 - Property Tax	\$ 0.003550
Schedule 141 - EBF - Basic Charge	\$ 0.300000
Schedule 141 - EBF - First 600 kWh	\$ 0.001114
Schedule 141 - EBF - Over 600 kWh	\$ 0.001357
Schedule 142 - Decoupling	\$ 0.009204
Schedule 104 - RPA Exch Credit	\$ (0.002794)

Notes:
 • Average PSE Customer
 † Includes Rider Schedules 95, 95A, 120, 129, 137, 140, 141, 142 and 104

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Minimum Winter Bill	206,462,025	\$	0.085578
Winter 1st Block	2,953,966,892	\$	0.085578
Winter 2nd Block	2,999,901,179	\$	0.104157
Subtotal	<u>10,227,816,745</u>		
Temperature Adjustment	291,310,493	\$	0.104157
Unbilled	(28,359,905)	\$	0.102153
Total	<u><u>10,490,767,333</u></u>		

\$89,852,886	\$	7.95	\$95,370,501
\$52,495	\$	19.10	\$55,734
\$0	\$	2.93	\$35,158,663
<u>\$89,905,381</u>			<u>\$130,584,898</u>
\$17,795,165	Included in Minimum Bill		
\$222,965,634	\$	0.083716	\$218,114,363
\$130,627,194	\$	0.098115	\$123,049,886
\$17,668,607	Included in Minimum Bill		
\$252,794,579	\$	0.083716	\$247,294,292
\$312,460,707	\$	0.106487	\$319,449,733
<u>\$954,311,886</u>			<u>\$907,908,274</u>
\$30,342,027	\$	0.106487	\$31,020,708
(\$2,897,049)	\$	0.101673	(\$2,883,437)
<u>\$1,071,662,245</u>			<u>\$1,066,630,443</u>

Cost Based \$ 10.88000 \$ 130,520,614.40
Cost Based (Retain 1ph/3ph relationship) \$ 26.10

Adjust for residual

Retain current differential between first two blocks
Long-run Avoided Cost of Power & Delivery

Set equal to tailblock

Average Increase

Target Dollars	\$1,066,627,454	-0.47%
Difference	-\$2,989	