BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Puget Sound Energy 2017 General Rate Case

PUBLIC COUNSEL DATA REQUEST NO. 457

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Re: Rebuttal Testimony of Mr. Greg Zeller (Exh. GJZ-3T) and Proposed SQI Changes.

Please refer to Mr. Zeller's Rebuttal Testimony (Exh. GJZ-3T) at 8:16-18, which states: "In order to meet the change proposed by Public Counsel, PSE estimates it would need to add an additional 32 full time employees, which would add an estimated cost of \$2.4 million to the call center operating costs."

- a. With regard to Mr. Zeller's identification of the costs that PSE would incur to comply with Ms. Alexander's SQI proposed changes, please provide the associated workpapers.
- b. With regard to Mr. Zeller's identification of the costs that PSE would incur to comply with Ms. Alexander's SQI proposed changes, please provide the following:
 - i. The assumptions associated with staffing of the call center, whether employees are full time or part time, and the hours/days/months in which such staffing would be assumed to be necessary.
 - ii. The quarterly performance level for the percentage of calls answered within 30 seconds and the call abandonment rate (calculated based on the current methodology) that will result from the identified increased costs and staffing levels.
- iii. Additional training cost estimates.
- Additional equipment, space, and other facility-based requirements, if any, associated with the estimated costs.
- v. Any additional costs not indicated in subparts i.-iv. that are included in Mr. Zeller's cost estimate for Public Counsel's SQI Proposal.

PSE's Response to PUBLIC COUNSEL Data Request No. 457

Date of Response: August 23, 2017

Person who Prepared the Response: Tina Valdez

Witness Knowledgeable About the Response: Greg H. Zeller

c. Please refer to the Direct Testimony of Ms. Barbara Alexander (Exh. BRA-1T) at 21:13-14, which states: "These new standards could be phased in over a 2-3 period with gradual incremental improvement until my recommended standards take full effect."

In developing the aforementioned cost estimates, did Mr. Zeller consider or follow Ms. Alexander's recommendations for new SQI performance to be phased in over 2-3 years? Please explain why or why not. Please show how that phase-in recommendation is reflected in the cost estimates.

Response:

The preliminary estimation of 32 additional staff needed is based upon the Erlang Model, which is one of the call center industry's commonly-used queuing models that calculates the number of staff required to reach an agreed service level for capacityplanning purposes. The following screenshot shows the model input Puget Sound Energy ("PSE") used in calculating the total number of agents that would be required to answer 80 percent of the calls within 30 seconds.

Calculate the number of agents required to reach an agreed service level			
Incoming ca	ills	10500	calls
in a period o	of	720	minutes
Average Ha	ndling Time	430	seconds
Required se Probability o	ervice level of target answer time	80.0%	
Target ansv	ver time	30	seconds
Shrinkage		30%	
Number of	Agents required	160	
Average Handling Time = Average Call Duration + Average time spent in After Call Work (ACW - also known as Wrap-Up time)			
Traffic Inte	nsity	99.5	Erlangs

The model above describes the total traffic volume of a 720-minute call center operating period (i.e., 12 hours X 60 minutes) and predicts the number of agents required to

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¹ Available at https://www.callcentrehelper.com/online-call-centre-staffing-calculator-77780.htm

support a call volume of 10,500 calls. The Erlang Model results indicated that 160 agents are required to support answering 80 percent of the calls within 30 seconds, which means that PSE needs 32 more agents than the current staffing level of about 128 agents. PSE projects the costs to meet the service level of answering 80 percent of the calls within 30 seconds to be \$2.4 million based upon the total labor costs associated with the additional 32 agents and two more full-time supporting employees at average annual costs of \$70,000 per employee.

A phased-in approach was not considered in the above analysis. In our opinion, a phased-in approach provides no additional benefit to customers and is considered to be more administratively burdensome to the Call Center training, supporting technology, quality control program, reporting, and business rule application.