EXH. CLS-8T DOCKET UE-200115 COLSTRIP UNIT 4 SALE WITNESS: CINDY L. SONG

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

In the Matter of the Application of

PUGET SOUND ENERGY

For an Order Authorizing the Sale of All of Puget Sound Energy's Interests in Colstrip Unit 4 and Certain of Puget Sound Energy's Interests in the Colstrip Transmission System

Docket UE-200115

PREFILED SUPPLEMENTAL DIRECT TESTIMONY (NONCONFIDENTIAL) OF

CINDY L. SONG

ON BEHALF OF PUGET SOUND ENERGY

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Exh. CLS-9C Quantitative Analysis, dated August 20, 2020

PREFILED SUPPLEMENTAL DIRECT TESTIMONY (NONCONFIDENTIAL) OF CINDY L. SONG

ON BEHALF OF PUGET SOUND ENERGY

I. INTRODUCTION

- Q. Are you the same Cindy L. Song who provided prefiled direct testimony,

 Exhibit CLS-1CT, and six supporting exhibits, Exhibit CLS-2 through

 Exhibit CLS-7, on behalf of Puget Sound Energy ("PSE") on February 19,

 2020?
- A. Yes.

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- Q. Are you aware of the changes to the Proposed Transaction that have occurred since PSE filed its Application and supporting testimony in this docket on February 19, 2020?
- A. Yes. As discussed in detail in PSE's Supplement to its Application and the Prefiled Supplemental Direct Testimony of Ronald J. Roberts, Exh. RJR-9T, PSE will continue with its plan to sell its 25 percent interest in Colstrip Unit 4. However, rather than NorthWestern Energy buying PSE's entire ownership interest in Colstrip Unit 4, Northwestern Energy and Talen Montana LLC ("Talen Montana") will each purchase one half of PSE's 25 percent ownership interest in Colstrip Unit 4. Additionally, PSE will buy back replacement power through two power purchase agreement ("PPAs")—one 45 megawatt ("MW") with

The following testimony discusses each of these updates.

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II. PSE UPDATED THE TERM OF EACH OF THE NORTHWESTERN PPA AND THE TALEN MONTANA PPA TO REFLECT A START DATE OF THE HOUR ENDING 0100 ON DECEMBER 17, 2020, AND AN EXPIRATION DATE OF THE HOUR ENDING 2400 ON DECEMBER 2, 2025

- Q. Could you please summarize the power purchase agreement addressed in the Direct Testimony of Cindy L. Song, Exh. CLS-1CT, and presented in the Sixth Exhibit to the Prefiled Direct Testimony of Cindy L. Song, Exh. CLS-7C?
- A. The quantitative analysis of the Proposed Transactions discussed in the Direct Testimony of Cindy L. Song, Exh. CLS-1CT, and presented in the Sixth Exhibit to the Prefiled Direct Testimony of Cindy L. Song, Exh. CLS-7C, assumed that PSE would enter into a PPA with NorthWestern Energy for 90 MW of the capacity from Colstrip Unit 4, commencing on June 1, 2020, and expiring on May 15, 2025.

As a result of the exercise of the right of first refusal by Talen Montana, PSE will not be entering into a PPA with NorthWestern Energy for 90 MW of the capacity from Colstrip Unit 4, commencing on June 1, 2020, and expiring on May 15, 2025. Instead, PSE will enter into two PPAs (one each with NorthWestern Energy and Talen Montana) of 45 MW each.

Q. What is the proposed term of the two PPAs?

A. Given the uncertainties of the regulatory approval processes before this
 Commission and the Montana Public Service Commission, the parties have not

yet identified a commencement date and have agreed to work in good faith to identify a date prior to closing of the proposed transactions.

The term of the two PPAs would be identical and are intended to have a term that expires the earlier of (a) 258 weeks after the commencement date of the PPAs or (b) the hour ending 2400 on December 31, 2025. The intent of the proposed term is to (i) maintain a term of two weeks less than a full five (5) years identified in the term of the originally proposed PPA of 90 MW with NorthWestern Energy and (ii) ensure that PSE has no obligations to purchase capacity output from Colstrip Unit 4 after December 31, 2025.

- Q. What terms has PSE assumed for purposes of the quantitative analysis submitted in this supplemental filing?
- A. For purposes of this supplemental filing, PSE has assumed terms for the two PPAs that commence at the hour ending 0100 on December 17, 2020, and expire at the hour ending 2400 on December 2, 2025. In other words, the terms of the PPAs assumed for purposes of this quantitative analysis is 258 weeks—a term of identical length to the term analyzed in the quantitative analysis addressed in the Direct Testimony of Cindy L. Song, Exh. CLS-1CT, and presented in the Sixth Exhibit to the Prefiled Direct Testimony of Cindy L. Song, Exh. CLS-7C.

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These refinements to the quantitative analysis conducted by PSE more accurately reflect the projected costs to PSE under the NorthWestern Energy PPA and the Talen Montana PPA.

- Q. Has PSE provided a quantitative analysis for each of the NorthWestern **Energy PPA and the Talen Montana PPA?**
- A. No. The substantive terms of the NorthWestern Energy PPA and the Talen Montana PPA are identical. For the purposes of identifying the potential costs and benefits of the two PPAs, PSE could have either (i) conducted one quantitative analysis by treating the two PPAs as one 90 MW PPA or (ii) conducted two quantitative analyses by treating the two PPAs as separate 45 MW PPAs and summing the results of these two quantitative analyses. The results of either approach would be identical. PSE elected the former for purposes of simplicity and efficiency.
- Q. Can PSE provide an illustrative example of the variable pricing for the NorthWestern Energy PPA and the Talen Montana PPA under different **Mid-C index price scenarios?**
- Yes. Table 1 below provides an illustrative example of the variable pricing for the A. NorthWestern Energy PPA and the Talen Montana PPA under different Mid-C index price scenarios.

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Table 1. Illustrative Example of Variable Pricing for the NorthWestern Energy PPA and the Talen Montana PPA under Different Mid-C Index Price Scenarios

		Scenario 1	Scenario 2	Scenario 3
A	Mid-C Index Price	\$20.00/MWh	\$30.00/MWh	\$40.00/MWh
В	O&M Cost (Base) Equivalent	\$10.00/MWh	\$10.00/MWh	\$10.00/MWh
C	Net Price (A - B)	\$10.00/MWh	\$20.00/MWh	\$30.00/MWh
D	Floor Price	\$25.40/MWh	\$25.40/MWh	\$25.40/MWh
Е	Amount Paid by PSE (Greater of C or D)	\$25.40/MWh	\$25.40/MWh	\$30.00/MWh
F	PSE (Cost)/Savings Compared to Mid-C Prices (A - E)	\$(5.40)/MWh	\$4.60/MWh	\$10.00/MWh

In sum, PSE pays (i) the Floor Price for deliveries in any hour in which the Net
Price is equal to or less than the Floor Price and (ii) the Mid-C index price less the
O&M Cost (Base) Equivalent for deliveries in any hour in which the Net Price is
greater than the Floor Price.

IV. MISCELLANEOUS REFINEMENTS TO THE QUANTITATIVE ANALYSIS

Q. Did PSE make any other refinements to its quantitative analysis?

A. Yes. During discovery, parties asked PSE to update the hedged scenario in a manner that reduced the price of the hedge from \$37.75/MWh to \$36.60/MWh.

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PSE made updates to its quantitative analysis to reflect this lower hedge price of \$36.60/MWh.

Q. Did PSE make any further refinements to its quantitative analysis?

A. Yes. In the quantitative analysis presented in the Prefiled Direct Testimony of Cindy L. Song, Exh. CLS-1CT, PSE compared continuing operations of Colstrip Unit 4 through May 15, 2025, which was the expiration date of the proposed PPA with NorthWestern Energy presented in the Seventh Exhibit to the Prefiled Direct Testimony of Ronald J. Roberts, Exh. RJR-8C. Now that PSE's quantitative analysis assumes that the two proposed PPAs with NorthWestern Energy and Talen Montana will expire at the hour ending 2400 on December 2, 2025, PSE extended the comparison through the end of calendar year 2025 for the purpose of comparing continuing operations at Colstrip Unit 4 with the proposed transactions with NorthWestern Energy and Talen Montana.

V. **CONCLUSION**

- Q. What are the results of PSE's quantitative analysis presented in this supplemental direct testimony that compares the costs of continuing operations of Colstrip Unit 4 with the costs of the proposed transactions with NorthWestern Energy and Talen Montana?
- A. For purposes of this prefiled supplemental direct testimony, PSE's quantitative analysis projects that the proposed transactions with NorthWestern Energy and Talen Montana would provide present value savings of approximately \$6 to

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A. Yes, it does.

\$33 million to PSE customers when compared to continuing operation of Colstrip Unit 4.

- Q. How do the results of PSE's quantitative analysis presented in this supplemental direct testimony compare with the results of PSE's quantitative analysis presented in the prefiled direct testimony filed on February 19, 2020?
- A. The results of PSE's quantitative analysis presented in this supplemental direct testimony are slightly lower than PSE's quantitative analysis presented in the prefiled direct testimony filed on February 19, 2020. Whereas the quantitative analysis presented in the prefiled direct testimony filed on February 19, 2020, projected that the proposed transaction with NorthWestern Energy would provide net present value savings to PSE customers of between \$25 and \$46 million, the quantitative analysis presented in this prefiled supplemental testimony project that the proposed transactions with NorthWestern Energy and Talen Montana would provide net present value savings to PSE customers of between \$6 and \$33 million. Please see the First Exhibit to the Prefiled Supplemental Direct Testimony of Cindy L. Song, Exh. CLS-9CT, for the results of PSE's updated quantitative analysis.
- Q. Does this conclude your prefiled supplemental direct testimony?