EXHIBIT NO. ___(DWH-1T)
DOCKET NO. UE-07___
2007 PSE PCORC
WITNESS: DAVID W. HOFF

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, Complainant,	
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v.	Docket No. UE-07
PUGET SOUND ENERGY, INC.,	
Respondent.	

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF DAVID W. HOFF ON BEHALF OF PUGET SOUND ENERGY, INC.

PUGET SOUND ENERGY, INC.

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF DAVID W. HOFF

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1 **PUGET SOUND ENERGY, INC.** PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF 3 **DAVID W. HOFF** 4 I. INTRODUCTION 5 Q. Please state your name, business address, and present position with Puget Sound Energy. 6 7 My name is David W. Hoff and I am Manager, Pricing and Cost of Service with A. Puget Sound Energy, Inc. ("PSE"). My business address is 10885 NE 4th Street, 8 9 Bellevue, Washington, 98004-5591. 10 Q. What are your responsibilities in your current position? As Manager, Pricing and Cost of Service, my responsibilities include electric and 11 A. gas rate spread and design, electric and gas cost of service studies and load 12 13 research at PSE. Would you please provide a brief description of your educational and 14 Q. 15 business experience? 16 Please see Exhibit No. ___(DWH-2). A. 17 ///// 18 /////

Q. What topics are you covering in your testimony?

A. My testimony describes the change to customer tariffs attributable to the adjustments to the Power Cost Rate. The total rate increase resulting from these adjustments is \$64,680,804, an average 3.67% increase over the rates set in January 2007. My testimony also presents the statement of proforma and proposed revenue, which includes the temperature adjustment by applicable rate schedule.

II. RATE SPREAD AND DESIGN

- Q. Please summarize how the proposed change to the Power Cost Rate will be charged to customers.
- A. The Power Cost Adjustment Mechanism ("PCA") requires that changes in rates attributable to adjustments to the Power Cost Rate as a result of a power cost only review be charged to customers based upon the peak credit methodology utilized in computing the rate spread methodology in PSE's most recent general rate case, which is Docket Nos. UE-060266 and UG-060267 (the "2006 GRC"). See Exhibit No. ___(JHS-4) at ¶ 15.

PSE has applied the peak credit methodology utilized in the 2006 GRC to the total deficiency in Power Costs shown on Exhibit No. ___(JHS-7) at line 18 to determine the amount of the power cost deficiency to be recovered from each rate schedule. This allocation to rate schedules is shown in Exhibit No. ___(DWH-3). This power cost deficiency by rate schedule is then divided by test year proforma

- Q. Please explain the history of the use of the peak-credit methodology for allocating PCA costs.
- A. The first PCORC proceeding was Docket No. UE-031725 (the "2003 PCORC"), and the rates in the 2003 PCORC became effective May 24, 2004. Those rates were part of a settlement and were based upon the peak credit methodology utilized in computing the rate spread methodology in the preceding general rate case, Docket No. UE-011570. That methodology classified 16% of PCA costs on demand and 84% of PCA costs on energy, and it allocated the demand costs to rate classes based on their contribution to the top 200 hours of system peak.

The next PCORC proceeding was Docket No. UE-050870 (the "2005 PCORC"). The rates in the 2005 PCORC became effective November 1, 2005. These rates were part of a settlement, and were based upon the peak credit methodology utilized in computing the rate spread methodology in the Company's preceding general rate case, Docket Nos. UE-040641, *et al.* (the "2004 GRC"). That methodology classified 14% of PCA costs on demand and 86% of PCA costs on energy, and it allocated the demand costs to rate classes based on their contribution to the top 200 hours of system peak.

Under the terms of the settlement of the 2004 GRC, and the settlement of the 2005 PCORC, PSE was required to file a revised Schedule 95 effective July 1, 2006 reflecting an update of the Power Cost Baseline Rate. This filing, the second compliance filing of the 2005 PCORC, was Docket No. UE-060783.

peak credit methodology utilized in computing the rate spread methodology in the then-concurrent 2006 GRC. That methodology classified 20% of PCA costs on demand and 80% of PCA costs on energy, and it allocated the demand costs to rate classes based on contribution to the top 75 hours of system peak. The rate spread proposed by the Company in the 2006 GRC and by the Company and the parties in the rate design settlement in that docket was accepted by the Commission. *See* Docket Nos. UE-060266 and UG-060267, Order 08 at ¶ 129. The peak credit methodology utilized in computing the rate spread in the 2006 GRC was also used for allocating PCA costs in this filing.

- Q. Please describe Exhibit No. ___(DWH- 3), entitled "Calculation of Schedule 95 Rate."
- A. Exhibit No. ____(DWH-3) presents the calculation of the Power Cost Adjustment rate, Schedule 95, for each schedule. It describes and uses the calculation of the weighted allocation factors used in the rate spread methodology in the 2006 GRC. The calculation of the Power Cost Adjustment Clause rates, Schedule 95, then uses those allocation factors to allocate the revenue deficiency to each customer class. Finally, it calculates the Schedule 95 rates for each class by dividing the allocated costs by the weather adjusted kWhs for each class for the test year. A description of these calculations is included as the second page of the exhibit.

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of David W. Hoff

temperature adjustment.¹ The system MWh temperature adjustment in Exhibit No. ___(JHS-7) was calculated in total and allocated to each of the applicable schedules by month based on the Company's temperature adjustment methodology presented in the 2006 GRC. The Commission expressed satisfaction with the Company's weather normalization analysis in that docket. *See* Docket Nos. UE-060266 and UG-060267, Order 08, ¶ 163.

- Q. Please describe how the Company normalized the test year system level delivered load in this case.
- A. As was done in the 2006 GRC, PSE used weather sensitivity coefficients based on actual daily load data and actual Sea-Tac temperature to adjust system level delivered load (Generated Purchased and Interchange, or GPI) for weather.

 PSE's "normal" weather dataset was developed using data reported at Sea-Tac International Airport over the 30-year period from 1976 through 2005 by calculating daily heating degree days ("HDDs") and cooling degree days ("CDDs") using several base temperatures (45 and 65 degrees for HDDs, 60 and 65 degrees for cooling). The actual HDDs and CDDs were calculated using the average of the 24 hourly temperatures compared against the base temperature.

 The amount of weather adjustment was calculated by taking the weather sensitivity coefficients and multiplying it by the difference between the actual and normal HDDs and CDDs. This process was done for each base HDD or CDD that appeared in the model.

¹ Please see the workpapers of Mr. John H. Story for the total weather adjustment.

Q. How did the Company use temperature normalized GPI electric load to calculate the load adjustment that should be made to various customer classes (rate schedules) related to weather effects?

A. PSE used a three-step process to adjust rate schedules for temperature. The first step was to develop linear regression equations to characterize the relationship between temperature and load for each rate schedule. The coefficients of those equations were permitted to vary by month and by class. The data source for this step was a large sample of daily energy readings from PSE's automated meter reading database. The second step was to simulate daily customer loads using the historical heating and cooling degree days and determine the average monthly load for each customer class. The third step was to weight the sample to the population and normalize the class loads to the net-of-losses weather-normalized GPI load. The amount of weather adjustment at the GPI level was allocated to each of the applicable schedules by taking the percentage share of each schedule's weather adjustment amount to total weather adjustment for all schedules as calculated by the rate schedule normalization equations, and then multiplying the system load temperature adjustment by these percentage shares.

Q. What were the results of this process?

A. Applying the process described above to the test year GPI load of 22,588,053

MWhs resulted in a total adjustment of 45,628 MWhs, or 42,569 MWh delivered load when adjusted for losses. Because the test year was warmer than normal, this adjustment resulted in a proforma delivered system load that is larger than