EXHIBIT NO. ___(PKW-1T) DOCKET NO. UE-14____ 2014 PSE PCORC WITNESS: PAUL K. WETHERBEE

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,

Complainant,

v.

Docket No. UE-14_____

PUGET SOUND ENERGY, INC.,

Respondent.

PREFILED DIRECT TESTIMONY (NONCONFIDENTIAL) OF PAUL K. WETHERBEE ON BEHALF OF PUGET SOUND ENERGY, INC.

MAY 23, 2014

PUGET SOUND ENERGY, INC.

PREFILED DIRECT TESTIMONY (CONFIDENTIAL) OF PAUL K. WETHERBEE

CONTENTS

I.	INTE	RODUCTION	1
II.	PRO	DUCTION OPERATIONS AND MAINTENANCE COSTS	2
	A.	Hydro Production O&M Costs	2
	B.	Wind Production O&M Costs	4
III.	STA	TUS OF THE ELECTRON HYDROELECTRIC PROJECT	6
IV.	CON	ICLUSION	8

1		PUGET SOUND ENERGY, INC.
2 3		PREFILED DIRECT TESTIMONY (CONFIDENTIAL) OF PAUL K. WETHERBEE
4		I. INTRODUCTION
5	Q.	Please state your name and business address.
6	A.	My name is Paul K. Wetherbee, and my business address is 10885 N.E. Fourth
7		Street, Bellevue, Washington 98004. I am employed by Puget Sound Energy, Inc.
8		("PSE") as a Director, Hydroelectric and Wind Resources & Asset Management.
9	Q.	Have you prepared an exhibit describing your education, relevant
10		employment experience, and other professional qualifications?
11	A.	Yes, I have. It is Exhibit No(PKW-2).
12	Q.	Please summarize your prefiled direct testimony.
13	A.	This prefiled direct testimony addresses the following issues that affect the rate
14		year in this proceeding, December 1, 2014 through November 1, 2015 (the "rate
15		year"):
16 17 18 19 20		 PSE's rate year production operations and maintenance ("O&M") expense adjustments and projections for the hydroelectric and wind generation facilities, including O&M expenses required to meet FERC relicensing requirements during the rate year and,
21 22		 (ii) Status of negotiations regarding the sale of the Electron Hydroelectric Project (the "Electron Project").
	(None	ed Direct Testimony Exhibit No(PKW-1T) confidential) of Page 1 of 8 K. Wetherbee

1		II. PRODUCTION OPERATIONS AND MAINTENANCE COSTS
2	Q.	How has PSE prepared its forecast of hydroelectric and wind production
3		O&M expense for the rate year?
4	A.	PSE developed the rate year production O&M expense for hydroelectric and wind
5		projects in a manner consistent with the development of O&M expenses in
6		Docket UE-130617 et al. ("2013 PCORC"). For most plants, PSE utilizes test
7		year O&M expense and makes certain pro forma adjustments as previously
8		allowed by the Commission.
9	Q.	What is PSE's forecast of hydro and wind production O&M for the rate year?
10	A.	Rate year hydro production O&M costs are forecast to be \$15.9 million, an
11		increase of less than \$15,000 from the 2013 PCORC hydro production O&M
12		costs of \$15.9 million. Rate year wind production O&M costs are forecast to be
13		\$30.2 million, a decrease of \$1.7 million from the 2013 PCORC wind production
14		O&M costs of \$31.9 million. Please see Exhibit No(RJR-3) for the rate year
15		production O&M costs. Please see the Prefiled Direct Testimony of Mr. Ronald J.
16		Roberts, Exhibit No(RJR-1CT), for a discussion of production O&M for the
17		gas-fired generators.
18	А.	Hydro Production O&M Costs
19	Q.	Please summarize the hydro production O&M costs.

20 A. Please see Table 1 below for a summary of hydro production O&M costs.

8

Resources	2013 PCORC	Test Year 1/1/13 - 12/31/13	Adjustments	2014 PCORC 12/1/14 - 11/30/15	2014 PCORC vs. 2013 PCORC
Lower Baker	\$5,333,295	\$4,137,204	-	\$4,137,204	\$(1,196,091)
Upper Baker	\$2,338,297	\$4,299,468	-	\$4,299,468	\$1,961,171
Baker Licensing	\$3,635,532	\$3,011,106	\$(612,431)	\$2,398,675	\$(1,236,858)
Electron Project	\$1,770,334	\$2,009,672	-	\$2,009,672	\$239,338
Snoqualmie	\$2,161,851	\$2,446,632	-	\$2,446,632	\$284,781
Snoqualmie Licensing	\$642,910	\$354,693	\$250,634	\$605,327	\$(37,583)
Hydro Total O&M	\$15,882,219	\$16,258,775	\$(361,797)	\$15,896,978	\$14,759

 Table 1. Hvdro Production O&M Costs

2 Q. What is the nature of the adjustments PSE has made to test year hydro 3 production O&M expense?

4	A.	PSE has adjusted test year hydro production O&M to reflect a reduction in test
5		year O&M of \$361,797 due to lower rate year FERC relicensing costs associated
6		with the Baker Project and the Snoqualmie Falls Project.

Q. Please describe the adjustment to reflect rate year FERC relicensing costs 7 associated with the Baker Project and the Snoqualmie Falls Project.

- 9 A. The decrease in test year O&M licensing costs are a result of pro-formed costs to 10 reflect the budgeted licensing O&M costs during the rate year. This is consistent with the treatment in the 2013 PCORC. 11
- 12 **Q**. Is there anything else regarding hydro operations that will impact the rate 13 year?
- 14 A. Yes. Outages are scheduled to occur during the rate year at three of the four 15 Baker Project units for replacement of certain components as described below:

1 2		(i)	Upper Baker Unit 1 will be out of service for 55 days for governor replacement and annual maintenance;
3 4		(ii)	Upper Baker Unit 2 will be out of service for 69 days for governor replacement and annual maintenance; and
5 6 7 8		(iii)	Lower Baker Unit 4 will be out of service for 114 days to resolve vibrational issues as discussed in the prefiled direct testimony of Mr. Douglas S. Loreen, Exhibit No. (DSL-1T).
9		In addition, L	ower Baker Unit 3 will be out of service for 14 days for routine
10		annual mainte	enance. These outages impact rate year hydroelectric generation as
11		reflected in th	e prefiled direct testimony of Mr. David E. Mills, Exhibit
12		No(DEM	I-1CT).
13	<u>B.</u>	Wind Produc	ction O&M Costs
14	Q.	Please summ	arize the wind production O&M costs.

- 15 A. Please see Table 2 below for a summary of wind production O&M costs.
- 16

Table 2. Wind O&M Costs

Resources	2013 PCORC	Test Year 1/1/13 - 12/31/13	Adjustments	2014 PCORC 12/1/14 - 11/31/15	2014 PCORC vs. 2013 PCORC
Hopkins Ridge + Expansion	\$7,378,425	\$4,844,081	\$283,562	\$5,127,642	\$(2,250,783)
Wild Horse	\$11,918,504	\$10,510,036	\$448,238	\$10,958,274	\$(960,230)
Wild Horse Expansion	\$1,591,996	\$1,586,244	\$68,200	\$1,654,444	\$62,448
Lower Snake River	\$10,964,812	\$12,645,372	\$(203,951)	\$12,441,421	\$1,476,608
Wind Total O&M	\$31,853,738	\$29,585,733	\$596,048	\$30,181,781	\$(1,671,956)

1	Q.	What is the nature of the adjustments PSE has made to test year wind
2		production O&M expense?
3	A.	PSE has made adjustments to test year wind production O&M that total \$596,048
4		as described below:
5 6 7 8 9		 added \$518,099 to test year wind production O&M expense to reflect projected rate year royalty costs under the royalty contracts for the Hopkins Ridge, Wild Horse/Wild Horse Expansion, and Lower Snake River Phase I wind projects based upon projected rate year wind generation;
10 11 12 13		 (ii) added \$626,128 to test year wind production O&M to reflect projected rate year contract maintenance costs under the Vestas maintenance contracts for the Hopkins Ridge and Wild Horse/Wild Horse Expansion wind projects; and
14 15 16 17		 (iii) reduced test year wind production O&M \$548,179 to reflect projected rate year contract maintenance costs under the Siemens maintenance contract for the Lower Snake River wind project.
18	Q.	Please explain PSE's proposed adjustment to wind royalty expense.
19	A.	Wind turbine production royalties represent variable dollar per MWh fees paid
20		under contract to project stakeholders. These fees are based on the actual
21		generation of PSE's wind turbines. Consistent with the treatment in the
22		2013 PCORC, PSE has pro formed the royalty costs based upon the wind
23		generation included in the rate year projected power costs. The rate year royalty
24		expenses for PSE's wind facilities have increased to \$6.8 million for the 2014
25		PCORC rate year as compared to \$6.7 million for the 2013 PCORC rate year for a
26		rate year-to-rate year increase of \$0.1 million.
	(Non	ed Direct Testimony Exhibit No(PKW-1T) confidential) of Page 5 of 8 K. Wetherbee

1	Q.	Do the wind turbine production royalty payments reflect contract increases?
2	A.	Yes. In accordance with the terms of PSE's development and land lease
3		agreements with project stakeholders, the annual royalty rate paid per MWh of
4		energy production is subject to an annual adjustment for inflation.
5	Q.	How is routine and corrective maintenance provided for the wind turbines?
6	A.	PSE's wind turbines at Hopkins Ridge, Wild Horse, and the Wild Horse
7		Expansion are maintained by the manufacturer, Vestas, in accordance with the
8		terms of five-year service agreements. Siemens has been contracted to provide all
9		maintenance services at the Lower Snake River Phase I facility. The term of the
10		initial contract with Siemens terminates after five years following turbine
11		commissioning on February 29, 2012.
12		III. STATUS OF THE ELECTRON HYDROELECTRIC PROJECT
13	Q.	Please provide an update on the status of the pending sale of PSE's Electron
14		Project to Electron Hydro.
15	A.	In May 2013 PSE and Electron Hydro entered into the Asset Purchase Agreement
16		("APA"), which included a \$13.7 million purchase price and formalized
17		agreement on other commercial terms for Electron Hydro's acquisition of the
18		Electron Project. Closing of the sale of the Electron Project is subject to the
19		fulfillment of several conditions that are specified in the APA. One of the
20		conditions to closing has not been fulfilled. This condition is defined in the APA
21		as follows:

1 2 3 4 5 6		(i) Buyer has executed a Renewable Resource Agreement ("RRA") with the Puyallup Tribe (the "Tribe"), in form and substance satisfactory to Buyer in its sole discretion; and (ii) Seller has received the consent of the Tribe to the termination of the current Resource Enhancement Agreement between Seller and the Tribe.
7		There have been three amendments to the APA, each extending the dates after
8		which either party may terminate the agreement due to a failure to close.
9		Amendment No. 1 extended the termination date from December 31, 2013 to
10		January 31, 2014. Amendment No. 2 further extended this date to April 30, 2014.
11		Amendment No. 3 then extended the termination date to June 30, 2014.
12	Q.	Has PSE's decision to sell the Electron Project and the resulting APA with
13		Electron Hydro previously been reviewed by the Commission?
14	A.	Yes. On June 6, 2013 PSE filed its application "[f]or an Order Authorizing the
15		Sale of the Water Rights and Associated Assets of the Electron Hydroelectric
16		Project" (Docket UE-131099). This docket was later consolidated with PSE's
17		2013 PCORC.
18	Q.	Did the Commission make any determination in that case regarding the
19		proposed sale of the Electron Project?
20	A.	Yes. In Order 08 in the 2013 PCORC, the Commission determined that the sale
21		of PSE's Electron Project to Electron Hydro is in the public interest and
22		conditionally approved the sale so long as there are no material changes to the
23		APA originally filed with PSE's June 6, 2013 application.
	(Non	ed Direct Testimony confidential) of Exhibit No. (PKW-1T) Page 7 of 8 K. Wetherbee

Q.	Are there any further amendments anticipated?
A.	PSE and Electron Hydro have recently been engaged in negotiations regarding an
	additional amendment to the APA, which could facilitate the closing of the sale.
	If PSE and Electron Hydro execute this amendment, PSE will supplement its
	testimony during the course of this proceeding.
	IV. CONCLUSION
Q.	Does this conclude your prefiled direct testimony?
A.	Yes, it does.
Prefi	ed Direct Testimony Exhibit No(PKW-1T