

**EXH. PKW-22C
DOCKETS UE-170033/UG-170034
2017 PSE GENERAL RATE CASE
WITNESS: PAUL K. WETHERBEE**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**Docket UE-170033
Docket UG-170034**

**SEVENTH EXHIBIT (CONFIDENTIAL) TO THE
PREFILED REBUTTAL TESTIMONY OF**

PAUL K. WETHERBEE

ON BEHALF OF PUGET SOUND ENERGY

**REDACTED
VERSION**

AUGUST 9, 2017

PUGET SOUND ENERGY
2017 GRC Rebuttal vs 2017 GRC Supplemental Power Costs Comparison
 (dollars in thousands)

A/C	Contract/Resource	2017 GRC Rebuttal (Jan18-Dec18) Prices = 6.23.17		2017 GRC Supplemental (Jan18-Dec18) Prices = 2.3.17		Increase / (Decrease) Costs			2017 GRC		Change Incr/(Decr)	
		AURORA	NIM	Total	AURORA	NIM	Total	AURORA	Other	Total		Rebuttal MWH
555H	Lower Baker	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555H	Upper Baker	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555H	Shoquahmie Falls	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555H	Mid-C Canadian EA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	(159,823)	XXXX
555H	Mid-C Rock Island	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	660,639	XXXX
555H	Mid-C Rocky Reach	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	1,534,399	XXXX
555H	Mid-C Priest Rapids Project	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	61,440	XXXX
555H	Mid-C Douglas Wells	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	932,340	XXXX
555H	Wells PPA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
501	Colstrip 1&2	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
501	Colstrip 3&4	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Goldendale	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Mint Farm	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Stumas	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Freddy I	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Encogen	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Fredonia 1&2	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Fredonia 3&4	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Fredrickson 1&2	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Whitehorn 2&3	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
547	Ferndale	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	KlamathPeaker	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555W	Hopkins Ridge	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555W	Wild Horse	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555W	Wild Horse Expansion	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555W	LSRI	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555W	Klondike Wind PPA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	Baker Replacement	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	7,009	XXXX
555	Barclays PPA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	PG&E Exchange	XXXX	(0)	XXXX	(0)	XXXX	(0)	XXXX	XXXX	XXXX	XXXX	XXXX
555	Point Roberts BC Hydro	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	Centralia PPA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555H	Electron PPA	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	QF Hutchinson Hydro	-	-	-	-	-	-	-	-	-	-	-
555	QF Koma Kulshan	3,252	-	3,252	-	3,252	-	-	-	-	39,681	-
555	QF Twin Falls	5,408	-	5,408	-	5,408	-	-	-	-	72,109	-
555	QF Weeks Falls	993	-	993	-	993	-	-	-	-	13,246	-
555	WNP-3 Exchange BPA Firm	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	WNP-3 Return	-	-	-	-	-	-	-	-	-	-	-
555	Sch91 Contracts	11,473	-	11,473	-	11,395	-	79	-	79	120,246	119,031
447	Market Sale PSE's	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	Market Purchase PSE's	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555MP	Market Purchase	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
447	Market Sale	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	Peak Planning	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	BEP Amortization	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX
555	Douglas Settlement Pymt	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX

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PUGET SOUND ENERGY
2017 GRC Rebuttal vs 2017 GRC Supplemental Power Costs Comparison
(dollars in thousands)

A/C	Contract/Resource	2017 GRC Rebuttal (Jan18-Dec18)		2017 GRC Supplemental (Jan18-Dec18)		Increase / (Decrease) Costs			2017 GRC	Change						
		AURORA	NIM	Total	AURORA	NIM	Total	AURORA	Other	Total	Rebuttal MWH	Supplemental MWH	Incr/(Decr) MWH			
		Prices = 6.23,17		Prices = 2.3,17												
557	Other Power Costs	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
565	Transmission	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
555H	Chelan Amort	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
456	MTM & Sales of Excess Gas	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
555W	Wind Integration Costs	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
547	Gas Transportation & Oil	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
547	Major Maintenance Adj	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
547	Balancing & Contingency Reserves	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX			
557	EIM Power Costs	-	2,333	2,333	-	2,333	-	-	-	-	-	-	-			
447	EIM Benefit	-	(8,471)	(8,471)	-	(8,471)	-	-	-	-	-	-	-			
555	Clean Air Rule Compliance	-	5,383	5,383	-	-	-	5,383	-	-	-	-	-			
	Total	\$460,909	\$253,948	\$714,857	\$486,732	\$250,979	\$737,710	(\$25,823)	\$2,969	(\$22,854)	23,272,547	23,272,547	(0)			
ck s/b zero																
501	Coal	58,505	14,485	72,991	63,960	16,977	80,938	(5,455)	(2,492)	(7,947)	3,845,978	4,224,064	(378,085)			
547	Natural Gas	106,927	46,882	153,808	83,902	47,905	131,807	23,025	(1,023)	22,001	5,085,069	3,767,197	1,317,871			
555	Purchased Power	212,709	5,455	218,164	209,392	52	209,444	3,318	5,403	8,720	4,415,542	4,284,726	130,815			
555W	Wind	8,539	3,442	11,981	8,539	3,281	11,819	-	161	161	2,074,319	2,074,319	-			
555H	Hydro	8,637	84,941	93,578	8,637	84,385	93,022	-	556	556	4,495,698	4,491,055	4,643			
557	Other Power Costs	-	11,489	11,489	-	11,489	11,489	-	-	-	-	-	-			
565	Transmission	-	112,629	112,629	-	112,895	112,895	-	(267)	(267)	-	-	-			
555MP	Market Purchases	94,765	-	94,765	135,179	-	135,179	(40,414)	-	(40,414)	4,459,166	5,248,250	(789,084)			
447	Secondary Sales	(29,173)	(8,471)	(37,644)	(22,877)	(8,471)	(31,348)	(6,296)	-	(6,296)	(1,103,224)	(817,064)	(286,160)			
456	Non-Core Gas	-	(16,904)	(16,904)	-	(17,535)	(17,535)	-	631	631	-	-	-			
	Total	\$460,909	\$253,948	\$714,857	\$486,732	\$250,979	\$737,710	(\$25,823)	\$2,969	(\$22,854)	23,272,547	23,272,547	(0)			
										Avg \$/MWh	Avg \$/MWh					
										\$	\$	30.72	\$	31.70	\$	(0.98)
										Percent change from Supplemental			-3.1%			

Note: Items that changed from the original filing are in bold and italics.