

**EXH. PKW-10C  
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**

**SECOND EXHIBIT (CONFIDENTIAL) TO THE  
PREFILED SUPPLEMENTAL DIRECT TESTIMONY OF**

**PAUL K. WETHERBEE**

**ON BEHALF OF PUGET SOUND ENERGY**

**REDACTED  
VERSION**

**APRIL 3, 2017**

**PUGET SOUND ENERGY**  
**2017 GRC Supplemental vs 2017 GRC As Filed Power Costs Comparison**  
(dollars in thousands)

**REDACTED VERSION**

A/C	Contract/Resource	2017 GRC Supplemental (Jan18-Dec18) Prices = 2.3.17			2017 GRC As Filed (Jan18-Dec18) Prices = 9.23.16			Increase / (Decrease) Costs			2017 GRC Supplemental MWH	2017 GRC As Filed MWH	Change Incr/(Decr) MWH
		AURORA	NIM	Total	AURORA	NIM	Total	AURORA	Other	Total			
555H	Lower Baker	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Upper Baker	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Snoqualmie Falls	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Mid-C Canadian EA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Mid-C Rock Island	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Mid-C Rocky Reach	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Mid-C Priest Rapids Project	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Mid-C Douglas Wells	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Wells PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
501	Colstrip 1&2	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
501	Colstrip 3&4	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Goldendale	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Mint Farm	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Sumas	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Freddy1	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Encogen	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Fredonia 1&2	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Fredonia 3&4	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Frederickson 1&2	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Whitehorn 2&3	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
547	Ferndale	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	KlamathPeak	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555W	Hopkins Ridge	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555W	Wild Horse	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555W	Wild Horse Expansion	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555W	LSR1	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555W	Klondike Wind PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	Baker Replacement	-	-	-	-	-	-	-	-	-	-	-	-
555	Barclays PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	PG&E Exchange	-	(0)	(0)	-	(0)	(0)	-	0	0	-	(8)	(8)
555	Point Roberts BC Hydro	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	Centraia PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Electron PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	QF Hutchinson Hydro	-	-	-	-	-	-	-	-	-	-	-	-
555	QF Kona Kulschan	3,252	-	3,252	3,252	-	3,252	-	-	-	39,681	39,681	-
555	QF Twin Falls	5,408	-	5,408	5,408	-	5,408	-	-	-	72,109	72,109	-
555	QF Weeks Falls	993	-	993	993	-	993	-	-	-	13,246	13,246	-
555	WNP-3 Exchange BPA Firm	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	WNP-3 Return	-	-	-	-	-	-	-	-	-	-	-	-

**REDACTED  
VERSION**

**PUGET SOUND ENERGY**  
**2017 GRC Supplemental vs 2017 GRC As Filed Power Costs Comparison**  
(dollars in thousands)

**REDACTED VERSION**

A/C	Contract/Resource	2017 GRC Supplemental (Jan18-Dec18) Prices = 2.3,17			2017 GRC As Filed (Jan18-Dec18) Prices = 9.23,16			Increase / (Decrease) Costs			2017 GRC As Filed MWH	Change Incr/(Decr) MWH
		AURORA	NIM	Total	AURORA	NIM	Total	AURORA	Other	Total		
555	Sch91Contracts	11,376	-	11,376	11,376	-	11,376	18	-	18	118,735	296
447	Market Sale PSE's	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555	Market Purchase PSE's	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555MP	Market Purchase	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
447	Market Sale	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555	Peak Planning	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555	BEP Amortization	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555	Douglas Settlement Pymt	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
557	Other Power Costs	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
565	Transmission	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555SH	Chelan Amort	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
456	MTM & Sales of Excess Gas	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
555W	Wind Integration Costs	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
547	Gas Transportation & Oil	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
547	Major Maintenance Adj	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
547	Balancing & Contingency Reserves	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
557	EIM Power Costs	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
447	EIM Benefit	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXX
	<b>Total</b>	<b>\$486,732</b>	<b>\$250,979</b>	<b>\$737,710</b>	<b>\$493,630</b>	<b>\$251,646</b>	<b>\$745,276</b>	<b>(\$6,898)</b>	<b>(\$667)</b>	<b>(\$7,565)</b>	<b>23,272,547</b>	<b>0</b>
	ck s/b zero											
501	Coal	63,960	16,977	80,938	65,243	16,977	82,220	(1,283)	0	(1,283)	4,295,104	(71,040)
547	Natural Gas	83,902	47,905	131,807	86,391	47,324	133,714	(2,489)	581	(1,907)	3,706,250	60,947
555	Purchased Power	209,392	52	209,444	195,164	50	195,214	14,228	2	14,230	3,825,231	459,496
555W	Wind	8,539	3,281	11,819	8,539	3,349	11,888	-	(69)	(69)	2,074,319	-
555H	Hydro	8,637	84,385	93,022	8,637	84,229	92,865	-	156	156	4,491,055	-
557	Other Power Costs	-	11,489	11,489	-	11,489	11,489	-	-	-	-	-
565	Transmission	-	112,895	112,895	-	112,910	112,910	-	(15)	(15)	-	-
555MP	Market Purchases	135,179	-	135,179	150,753	-	150,753	(15,574)	-	(15,574)	5,637,960	(389,709)
447	Secondary Sales	(22,877)	(8,471)	(31,348)	(21,096)	(8,471)	(29,567)	(1,781)	-	(1,781)	(757,371)	(659,693)
456	Non-Core Gas	-	(17,535)	(17,535)	-	(16,211)	(16,211)	(1,324)	(1,324)	(1,324)	-	-
	<b>Total</b>	<b>\$486,732</b>	<b>\$250,979</b>	<b>\$737,710</b>	<b>\$493,630</b>	<b>\$251,646</b>	<b>\$745,276</b>	<b>(\$6,898)</b>	<b>(\$667)</b>	<b>(\$7,565)</b>	<b>23,272,547</b>	<b>0</b>
		\$0	\$0	\$0	\$0	\$0	\$0	0	0	0	Avg \$/MWh	Avg \$/MWh
											\$ 31.70	\$ 32.02
												(0.33)

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

REDACTED  
VERSION