

**EXH. PKW-39C
DOCKETS UE-190529/UG-190530
UE-190274/UG-190275
2019 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-190529
Docket UG-190530 (*Consolidated*)**

In the Matter of the Petition of

PUGET SOUND ENERGY

**For an Order Authorizing Deferral
Accounting and Ratemaking Treatment
for Short-life IT/Technology Investment**

**Docket UE-190274
Docket UG-190275 (*Consolidated*)**

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

PAUL K. WETHERBEE

ON BEHALF OF PUGET SOUND ENERGY

**REDACTED
VERSION**

JANUARY 15, 2020

Puget Sound Energy
Rate Year Power Costs by Resource
2019 GRC Rebuttal Power Cost Update vs 2019 GRC Proposed

REDACTED VERSION

Acct.	Resource/Item	2019 GRC Rebuttal Update			2019 GRC Proposed			Increase / (Decrease)			Energy (MWh)		
		AUROLA	Not in AUROLA	Total	AUROLA	Not in AUROLA	Total	AUROLA	Not in AUROLA	Total	2019 GRC Rebuttal Update	2019 GRC Proposed	Increase / (Decrease)
	(\$ in thousands)												
555H	Lower Baker	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555H	Upper Baker	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555H	Snoqualmie Falls	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555H	Canadian Entitlement	0	0	0	0	0	0	0	0	0	(136,225)	(136,225)	0
555H	Mid C Rock Island	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	645,493	634,763	10,730
555H	Mid C Rocky Reach	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	1,575,658	1,570,714	4,944
555H	Mid C Wells	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	769,690	761,581	8,109
555H	Mid C Priest Rapids Project	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	311,176	46,697	264,479
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	Freddy 1	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	Femdale	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
548	Crystal Mountain	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	Centralia coal PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555WS	Lund Hill solar PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555WS	Skookumchuck wind PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555WS	Hopkins Ridge wind	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555WS	Wild Horse wind	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555WS	Wild Horse Expansion wind	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555WS	Lower Snake River wind	0	0	0	0	0	0	0	0	0	XXXXXX	XXXXXX	XXXXXX
555WS	Klondike III wind PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555H	Electron hydro PPA	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	Baker Replacement	0	0	0	0	0	0	0	0	0	6,998	6,998	0
555	Glacier Battery Storage	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	PG&E Exchange	0	0	0	0	0	0	0	0	0	0	0	0
555	Point Roberts (BC Hydro)	1,658	0	1,658	0	0	1,658	0	0	0	20,726	20,726	0
555H	QF Koma Kulshan	3,302	0	3,302	0	0	3,302	0	0	0	40,006	40,006	0
555H	QF Twin Falls	5,399	0	5,399	0	0	5,399	0	0	0	71,991	71,991	0
555H	QF Weeks Falls	993	0	993	0	0	993	0	0	0	13,243	13,243	0
555	Schedule 91 contracts	16,522	0	16,522	0	0	16,522	0	0	0	211,297	211,297	0
447	PSE hedges sales	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555	PSE hedges purchases	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
555MP	Market purchases	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
447	Market sales	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX

Puget Sound Energy
Rate Year Power Costs by Resource
2019 GRC Rebuttal Power Cost Update vs 2019 GRC Proposed

REDACTED VERSION

Acct.	Resource/item	2019 GRC Rebuttal Update			2019 GRC Proposed			Increase / (Decrease)			Energy (MWh)		
		AUORA	Not in AUORA	Total	AUORA	Not in AUORA	Total	AUORA	Not in AUORA	Total	2019 GRC Rebuttal Update	2019 GRC Proposed	Increase / (Decrease)
	(\$ in thousands)												
		\$511,486	\$259,553	\$771,039	\$487,336	\$256,170	\$743,505	\$24,150	\$3,383	\$27,533	23,152,655	23,152,655	0
555H	Chelan pre-payment amort.	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
565	BPA transmission cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
565	Chelan transmission cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
565	Transmission re-assignments	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
456	Gas mark-to-model	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
547	Fixed gas transportation cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555MP	Day-ahead wind integration cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555WS	Balancing and contingency reserves	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
547	Skookumchuck incremental balancing	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
547	Distillate fuel incremental cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555	Remove non-fuel peaker start cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555	Winter peak incremental cost	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
456	Premium / (discount) index deals	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555WS	Klondike wind cost adjustment	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555WS	LSR wind generation adjustment	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
557	Other power supply expense	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
555	Settlement adjustment	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	0	0	0
	Total	\$511,486	\$259,553	\$771,039	\$487,336	\$256,170	\$743,505	\$24,150	\$3,383	\$27,533	23,152,655	23,152,655	0
501	Coal	32,220	6,584	38,804	32,675	6,584	39,259	(455)	0	(455)	2,344,752	2,379,191	(34,440)
547	Natural gas	78,751	54,043	132,794	96,594	53,472	150,065	(17,843)	571	(17,272)	4,234,079	5,186,032	(951,952)
555WS	Wind and solar	29,840	2,544	32,384	29,840	2,544	32,384	0	0	0	2,546,775	2,547,185	(409)
555H	Hydro	17,714	95,845	113,559	17,714	86,620	104,334	0	9,225	9,225	4,293,165	4,012,163	281,002
555	Other contracts	281,462	52	281,514	196,529	52	196,581	84,933	0	84,933	6,274,930	3,599,362	2,675,568
555MP	Market purchases	80,961	1,189	82,149	119,716	1,189	120,905	(38,755)	(0)	(38,755)	3,838,168	5,671,956	(1,833,789)
447	Secondary sales	(9,462)	0	(9,462)	(5,731)	0	(5,731)	(3,730)	0	(3,730)	(379,215)	(243,235)	(135,980)
565	Transmission	0	117,687	117,687	0	117,713	117,713	0	(27)	(27)	0	0	0
456	Other revenues	0	(28,826)	(28,826)	0	(22,441)	(22,441)	0	(6,385)	(6,385)	0	0	0
557	Other power supply expense	0	10,436	10,436	0	10,436	10,436	0	0	0	0	0	0
	Total	\$511,486	\$259,553	\$771,039	\$487,336	\$256,170	\$743,505	\$24,150	\$3,383	\$27,533	23,152,655	23,152,655	0
	Total Power Costs per MWh	\$33.30	\$32.11	\$1.19	4.96%	1.32%	3.70%	% increase from 2019 initial GRC filing					

Rate year: May 2020 through April 2021
Gas price date: 12/05/2019