EXH. PKW-43C 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.

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-190529 Docket UG-190530 (Consolidated)

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

NINTH EXHIBIT (CONFIDENTIAL) TO THE PREFILED REBUTTAL TESTIMONY OF

PAUL K. WETHERBEE

ON BEHALF OF PUGET SOUND ENERGY

REDACTED VERSION

JANUARY 15, 2020

		<u> </u>					2(019 GRC Re	2019 GRC Rebuttal Power Cost Update	Cost Updat	e				
			Mav-20	<u>Jun-20</u>	<u>Jul-20</u>	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Rate Year Total
Units \$	<u>Acct.</u> 555H	(\$ in thousands) Lower Baker	80	80	S0	80	\$0	S 0	80	\$0	\$0	\$0	\$0	\$0	\$0
- 69	555H	Upper Baker	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	555H	Snoqualmie Falls	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	555H	Canadian Entitlement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	555H	Mid C Priest Rapids Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$	555H	Mid C Rock Island	80	80	80	80	2 0	80	80	S0	80	80	80	80	80
S	555H	Mid C Rocky Reach	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	S0
S	555H	Mid C Wells	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	501	Colstrip 1&2	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
S	501	Colstrip 3&4	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	547	Goldendale	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
S	547	Mint Farm	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX
S	547	Sumas	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
S	547	Freddy 1	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	547	Encogen	\$XXXX	XXXX\$	XXXXS	\$XXXX	XXXXS	XXXXS	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX
S	547	Fredonia 1&2	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX
S	547	Fredonia 3&4	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX
S	547	Frederickson 1&2	\$XXXX	\$XXXX	\$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	\$XXXX	\$XXXX
S	547	Ferndale	XXXX\$	\$XXXX	\$XXXX	XXXXS	XXXX\$	\$XXXX	XXXXS	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
S	548	Crystal Mountain	\$XXXX	XXXXS	XXXXS	XXXXS	\$XXXX	XXXXS	XXXXS	\$XXXX	XXXXS	XXXXS	XXXXS	XXXX\$	\$XXXX
S	555	Centralia coal PPA	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
ŝ	555WS	Lund Hill solar PPA	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
s	555WS	Skookumchuck wind PPA	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	555WS	Hopkins Ridge wind	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX
s	555WS	Wild Horse wind	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXX\$	\$XXXX	\$XXXX
ŝ	555WS	Wild Horse Expansion wind	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	555WS	Lower Snake River wind	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXXS	\$XXXX	\$XXXX	\$XXXX	\$XXXX
s	555WS	Klondike IIII wind PPA	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
s	555H	Electron hydro PPA	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
s	555	Baker Replacement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
s	555	Glacier Battery Storage	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	555	PG&E Exchange	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	555	Point Roberts (BC Hydro)	\$108	\$96	\$106	\$105	899	\$118	\$165	\$203	\$200	\$167	\$163	\$127	\$1,658
S	555H	QF Koma Kulshan	\$490	\$625	\$452	\$187	\$120	\$241	\$335	\$218	\$200	\$127	\$119	\$188	\$3,302
S	555H	QF Twin Falls	\$874	\$740	\$259	\$28	\$34	\$200	\$509	\$547	\$566	\$463	\$522	\$657	\$5,399
s	555H	QF Weeks Falls	\$168	\$155	\$50	\$5	\$5	\$36	\$95	\$98	\$93	\$76	\$82	\$130	\$993
S	555	Schedule 91 contracts	\$1,643	\$1,608	\$1,659	\$1,577	\$1,383	\$1,292	\$1,233	\$1,169	\$1,174	\$1,073	\$1,311	\$1,400	\$16,522
s	447	PSE hedges sales	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
S	555	PSE hedges purchases	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX
S	555MP	Market purchases	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
S	447	Market sales	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX
\$	555MP	Settlement Adjustment													
s		Total	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	
		Subtotal AURORA cost	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$511,486
		check	(0)	0	(0)	0	(0)	(0)	(0)	(0)	0	0	0	0	(0)

		Fromer (Arrel)													
Sign Function Sign		Energy (MWI)													
5511 Sequencie Table SCXXX SCXXXX SCXXXX SCXXXX SCXXXXX SCXXXXX SCXXXXX SCXXXXX SCXXXXX SCXXXXX SCXXXX SCXXXXX SCXXXX SC CoRin		Lower Baker	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXX8
5511 Signality indication (Math.) Signality (Math.)		Upper Baker	XXXXS	XXXXS	XXXXS	XXXXS	\$XXXX	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	\$XXXX	\$XX
S131 MLC Free fload, Fload (1.20) (1.21)		Snoqualmie Falls	XXXXS	XXXXS	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	\$XXXX	XXXXS	XXX\$
Gill Mult Check Many Gold Sign		Canadian Entitlement	(12.064)	(12,002)	(12.464)	(12:002)	(11.788)	(12:096)	(11.334)	(10.728)	(6.803)	(6.049)	(11.664)	(11.232)	(136.22
Mill Checken and Signific metric (Constrained Constrained Constrand Constrained Constrained Constrained Constrained		Mid C Drivet Danide Droizet	30,500	47 567	41.821	30,670	28 501	201100	37 801	30 506	7 683	2 100	3 666	3 071	3111
Res Molit Circle from (a) Total (a) Sint (a) <td></td> <td></td> <td>2000</td> <td>400,44</td> <td>170,17</td> <td>(70°C)</td> <td>100,02</td> <td>41.000</td> <td>1/0//02</td> <td>000 53</td> <td>20012</td> <td>50.05</td> <td>2000,02</td> <td>17/12</td> <td>1110</td>			2000	400,44	170,17	(70°C)	100,02	41.000	1/0//02	000 53	20012	50.05	2000,02	17/12	1110
Site Mal C Redy Res Total Tital Total		INIID C KOCK ISIAND	02,230	07,20	228,86	54,418	606,04	41,809	cn/ '7c	88U,1C	140,00	100,20	500°0C	21,248	040,4
S1H MuC (w) 9,6/8 9,9/8 9,4/72 5,4/37 5,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,4/37 9,1/37 1/1 <		Mid C Rocky Reach	170,375	171,800	151,935	136,808	89,336	90,894	118,982	129,268	147,919	125,464	116,105	126,774	1,575,6
		Mid C Wells	96,684	99,887	94,792	85,425	54,595	54,997	69,775	40,423	30,438	26,502	55,023	61,147	769,6
		Colstrip 1&2	\$XXXX	\$XXXX	\$XXXX	XXXXS	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$
51 Under Inform Extraction Extraction <td></td> <td>Coletrin 3.8.4</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXX</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>CX XS</td>		Coletrin 3.8.4	XXXXS	XXXXS	XXXXS	XXXX	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	CX XS
97 Multi Fina SXXX SXXXX SXXXX <t< td=""><td></td><td>Goldandolo</td><td>~~~~~</td><td>~~~~~</td><td>*****</td><td>27777¢</td><td>~~~~~</td><td>27773</td><td>~~~~~</td><td>27773</td><td>VVVV3</td><td>~~~~~</td><td>0VVVV</td><td>VVVV</td><td>1110</td></t<>		Goldandolo	~~~~~	~~~~~	*****	27777¢	~~~~~	27773	~~~~~	27773	VVVV3	~~~~~	0VVVV	VVVV	1110
		Coldendale	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVe
		Mint Farm	\$XXXX	\$XXXX	8XXXX	\$XXXX	\$XXXX	SXXXX	\$XXXX	SXXXX	\$XXXX	\$XXXX	SXXXX	\$XXXX	SXX3
		Sumas	\$XXXX	\$XXXX	XXXX\$	XXXXS	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	CX XS
		Freddy 1	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXX\$
51 Freducin 10° SXXXX		Encopen	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	SXX8
Friduality Fridual		Fredonia 1.8.7	VVVV	XXXX	XXXX	VVVV	VVVV	VVVV	XXXX3	VVVV	XXXX	VVVV	XXXX	VVVV	CX X3
Freductional SXXXX							~~~~~		~~~~~		XXXX0		~~~~~	XXXX0	NVV0
 Fith Theffertéson IZ SXXXX SXXXXX SXXXX SXXXX SXXXX SXXXX SXXXX S		Fredonia 2004	VVVV¢	VVVV¢	VVVV¢	VVV¢	VVVV¢	VVVV¢	VVVVe	VVVV¢	VVVV¢	VVV¢	VVVV¢	VVVV¢	VVe
FIT Whithoun 24 Work With With With With Work Work Work Work Work Work Work Work		Frederickson 1 & 2	XXXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXXX	SXXXX	XXXX	XX\$
547FrendaleXX <th< td=""><td></td><td>Whitehorn 2&3</td><td>\$XXXX</td><td>\$XXXX</td><td>\$XXXX</td><td>\$XXXX</td><td>XXXX\$</td><td>\$XXXX</td><td>XXXX\$</td><td>\$XXXX</td><td>\$XXXX</td><td>\$XXXX</td><td>\$XXXX</td><td>\$XXXX</td><td>XXX\$</td></th<>		Whitehorn 2&3	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXX\$
Fig. Crystal Mountai SXXXX SXXX SXXXX SXXX SXXXX SXXX SXXXX SXXXX SXXX SXXX SXXX SXX		Ferndale	SXXXX	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX	XXXX	XXXXS	CXXS
353 Centralia coal PA SXXX:		Crystal Mountain	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	CXXS
55WS Lund Hill solar Ph. SYXXX SYXXXX SYXXX SYXXX SYXXX SYXXX SYXXX SYXXX S		Centralia coal PPA	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	CXXS
 Multi Horse wind SiSWS Skolamichalk wind SiSWS Hopkins Ridge wind SiSWS Wild Horse evand SiSWS Unwer Smale River wind SiSWS Lower Smale River wind SiSWS SiSH Electron Hydro PPA SiSWS SiSH Size Replacing SiSH Pater R		I trued trill color DDA	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	1110
55WS Holdine Rue wird PTA XXXXX XXXXX<		LUNG HIII SOLAT PPA	VVVV¢	VVVV¢	VVVV¢	VVV¢	VVVVe	VVVVe	VVVVe	VVVVe	VVVV¢	VVVV¢	VVVVe	VVVVe	VVV¢
 Mid Horse Vande XXXX 5XXXX 5XXX 5XXXX 5XXX 5		Skookumenuck wind PPA	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVV¢
555Ws Wild Hose Expansion wind \$XXXX \$		Hopkins Ridge wind	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXX\$
555WS Wild Horse Expansion wind \$XXXX		Wild Horse wind	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXX\$
555WS Lower Smake River wind \$XXXX \$XX		Wild Horse Expansion wind	XXXX\$	XXXX\$	XXXX\$	XXXXS	XXXXS	XXXXS	XXXX\$	XXXXS	XXXXS	XXXXS	XXXXS	\$XXXX	\$XXXX
555Ws Klondile III vind PPA SXXXX SXXX		Lower Snake River wind	\$XXXX	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXXS	XXXXS
55H Electron hydro PPA \$XXXX \$XXXX <td></td> <td>Klondike IIII wind PPA</td> <td>\$XXXX</td> <td>XXXXS</td> <td>\$XXXX</td> <td>XXXXS</td> <td>XXXXS</td> <td>XXXXS</td> <td>\$XXXX</td> <td>XXXXS</td> <td>\$XXXX</td> <td>XXXXS</td> <td>XXXXS</td> <td>\$XXXX</td> <td>XXXS</td>		Klondike IIII wind PPA	\$XXXX	XXXXS	\$XXXX	XXXXS	XXXXS	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXXS	XXXXS	\$XXXX	XXXS
555 Baker Replacement -		Electron hydro PPA	XXXXS	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXXS	\$XXXX	\$XXXX	SXX3
555 Clacier Battery Storage SXXXX SXXX		Baker Replacement					•	•	1,749	1,750	1,750	1,750		,	6,998
555 PG&E Exchange - (49,129) (110,376) (18,757) - 126,724 181,278 58,801 46,197 -<		Glacier Battery Storage	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$
Point Roberts (BC Hydro) 1,356 1,201 1,327 1,318 1,239 1,479 2,063 2,542 2,499 2,082 2,034 1,585 H QF Wark Kusham 5,946 7,586 5,469 2,269 1,473 2,499 2,082 2,034 1,535 1,477 2,779 H QF Weak Falls 2,143 2,073 6,71 6,77 6,786 7,300 7,535 1,477 2,779 GF Weak Falls 2,143 2,073 6,71 6,77 6,786 7,300 7,311 1,737 2,779 References 5XXXX 5	MWh 555	PG&E Exchange		(49,129)	(110,376)	(134,738)	(118,757)	•	126,724	181,278	58,801	46,197		•	
555H QF Koma Kulahan 5946 7.586 5,469 2,2919 4,052 2,644 2,418 1,535 1,437 2,279 555H QF Ywa Falls 11,654 9860 3,448 378 4,99 2,670 6,445 7,300 7,531 6,170 6,736 7,310 1,243 1,09 1,093 1,737 555 Schedule 91 contracts 20,393 2,0073 511 17,1665 16,176 1,200 1,243 1,090 1,093 1,737 555 Schedule 91 contracts 20,303 21,425 20,311 17,1665 16,176 14,300 1,123 1,090 1,093 1,737 555 PSE Hedges Sales SXXXX SXX		Point Roberts (BC Hydro)	1,356	1,201	1,327	1,318	1.239	1,479	2,063	2,542	2,499	2,082	2,034	1,585	20,7
555H QF Twin Falls 11,654 9,860 3,448 378 459 2,670 6,786 7,300 7,551 6,170 6,954 8,761 555H QF Weaks Falls 2,243 2,073 671 67 61 478 1,301 1,243 1,093 1,033 1,737 555 Scheduel 91 contracts 20,609 21,425 20,311 17,665 16,176 14,990 1,432 14,182 17,193 18,611 447 PSE Hedges Sales 5XXXX		OF Koma Kulshan	5,946	7,586	5,469	2,269	1,453	2,919	4,052	2,644	2,418	1,535	1,437	2,279	40,0
555H QF Weeks Falls 2.243 2.073 671 67 61 478 1.268 1.301 1.243 1.009 1.003 1.737 555 Schedule J contracts 20.889 20.609 21.425 20.311 17.665 16.176 14.900 14.162 15.059 14.182 17.199 18.611 447 PSE Hedges Sales SXXXX SXXXX <t< td=""><td></td><td>OF Twin Falls</td><td>11.654</td><td>9.860</td><td>3.448</td><td>378</td><td>459</td><td>2,670</td><td>6.786</td><td>7.300</td><td>7,551</td><td>6.170</td><td>6.954</td><td>8.761</td><td>71.5</td></t<>		OF Twin Falls	11.654	9.860	3.448	378	459	2,670	6.786	7.300	7,551	6.170	6.954	8.761	71.5
555 Schedule 91 contracts 20,809 21,425 20,311 17,665 16,176 14,162 15,059 14,182 17,199 18,631 447 PSE Hedges sales \$XXXX \$XXXXX \$XXXX		OF Weeks Falls	2.243	2.073	671	67	61	478	1.268	1.301	1.243	1,009	1.093	1.737	13.2
4.7 PSE Hedges Sales SXXXX		Schedule 91 contracts	20,889	20,609	21,425	20.311	17.665	16.176	14,990	14,162	15.059	14,182	17,199	18.631	211,297
55 PSE Hedges Furchases SXXXX SXXXXX SXXXX SXXXX SXXXXX SXXXX SXXXX SXXXX S		PSE Hedges Sales	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
55MP Market Purchases SXXXX SXXXXX SXXXX SXXXX SXXXX SXXXXX SXXXX SXXXX SXXXX SXXXX SXXXX SXXXX SXX		PSE Hedges Purchases	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	\$XXXX	XXXXS
47 Marter Sales SXXXX SXXXXX SXXXX SXXXX SXXXXX SXXXX SXXXX SXXXX SXXXX SXXXX SXXXXX SXXXX SXXXX		Market Purchases	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXS
Total SXXXX SXXXXXX		Market Sales	SXXXX	XXXXS	XXXXS	SXXXX	XXXXX	XXXXX	XXXXX	XXXXX	XXXXS	XXXXX	SXXXX	XXXXX	SXX3
		Total	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	23.152.6
		C 1.4-1 ATROD A F												ATT TATA TO	

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

								2019	2019 GRC Proposed	ed						
			Mav-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	Rate Year Total	Increase/ (Decrease)
Units	Acct.	(\$ in thousands)	04	00	Q.	Ċ,	00	00	00	6	ç	¢,	ç	6	¢0	U.J
	H222	Unner Baker	05	05	04 OS	06	05	005	05	0\$	0.05	0¢	0.0	0\$	80	09
	555H	Snoqualmie Falls	80	\$0 80	\$0 S	80	80	80 80	80	\$0 80	80 80	80 80	\$0 80	\$0 80	SO	\$0
	555H	Canadian Entitlement	\$0	80	80	80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
s	555H	Mid C Priest Rapids Project	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	555H	Mid C Rock Island	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$	555H	Mid C Rocky Reach	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	80
	555H	Mid C Wells	\$0	\$0	\$0	80	\$0	80	\$0	<u>\$0</u>	80	\$0	\$0	\$0	\$0	\$0
S	501	Colstrip 1&2	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX
	501	Colstrip 3&4	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	547	Goldendale	XXXX\$	\$XXXX	XXXX\$	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\$	\$XXXX	\$XXXX	\$XXXX
	547	Sumas	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	547	Freddy 1	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	XXXX\$
\$	547	Encogen	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	547	Fredonia 1&2	XXXX	XXXXS	XXXX	XXXX	XXXXS	XXXXS	XXXXS	XXXX\$	\$XXXX	XXXXS	XXXXS	\$XXXX	\$XXXX	\$XXXX
	14	Fredonia 3624	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX XXXX	XXXX
A 9	747	Frederickson 1&2 Whitehorn 2&3	XXXX XXXX	XXXX XXXX	XXXX&	XXXX XXXX	XXXX XXXX	XXXX XXXX	XXXX XXXX	XXXX XXXX	XXXX&	XXXX XXXX	XXXX XXXX	XXXX	XXXXX	XXXXS
	547	Ferndale	XXXXS	XXXXS	XXXX\$	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS
	548	Crystal Mountain	XXXX	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXXS	XXXX	SXXXX	SXXXX
	555	Centralia coal PPA	XXXX\$	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX
	555WS	Lund Hill solar PPA	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$
	555WS	Skookumchuck wind PPA	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
6 9 (555WS	Hopkins Ridge wind	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX
	555WS	Wild Horse wind	\$XXXX	8XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	555WS	Wild Horse Expansion wind	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX
	555WS	Lower Snake River wind	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX
	555WS	Klondike IIII wind PPA	XXXX\$	XXXXS	XXXXS	XXXXS	XXXXS	XXXX\$	XXXXS	XXXXS	XXXX\$	XXXX\$	XXXXS	SXXXX	\$XXXX	\$XXXX
	HCCC		YYYY¢	VVVV¢	VYYY¢	VYYY¢	YYYY¢	VVVV¢	VVVV¢	\$XXXX	YYYYY	VVVV¢	VVVV¢	VVVV¢		
A 6	555	Clocics Dettern Stores	20	20	0¢	20	20	20	20	20	90	20	20	20	0¢ VVVV3	0¢ ^^^^
	222	DG &E Evoluage	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV¢	VVVV/¢
	555	FOCE EXCITATION Point Roberts (RC Hydro)	\$108	0¢	\$106	\$105	0¢ 003	0¢ \$118	\$165	0¢ 2003	0003	5167	\$U \$163	0¢ 7713	00 \$1.658	0.8
	555H	OF Koma Kulshan	\$490	\$625	\$452	\$187	\$120	\$241	\$335	\$218	\$200 \$200	\$127	\$119	\$188	\$3,302	\$0
	555H	QF Twin Falls	\$874	\$740	\$259	\$28	\$34	\$200	\$509	\$547	\$566	\$463	\$522	\$657	\$5,399	\$0
	555H	QF Weeks Falls	\$168	\$155	\$50	\$5	\$5	\$36	\$95	\$98	\$93	\$76	\$82	\$130	\$993	\$0
S	555	Schedule 91 contracts	\$1,643	\$1,608	\$1,659	\$1,577	\$1,383	\$1,292	\$1,233	\$1,169	\$1,174	\$1,073	\$1,311	\$1,400	\$16,522	\$0
	447	PSE hedges sales	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX
	555	PSE hedges purchases	XXXX\$	8XXXX	XXXX\$	XXXX\$	XXXXS	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX
ŝ	555MP	Market purchases	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	XXXX\$
	447	Market sales	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	SXXXX XXXXX	\$XXXX
s	555MP	Settlement Adjustment													XXXX	XXXX
s		Total	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	XXXXS	SXXXX	SXXXX	\$487,336	\$24,150
		Subtotal AURORA cost	8XXXX	8XXXX	8XXXX	8XXXX	\$XXXX	\$XXXX	\$XXXX	8XXXX	8XXXX	\$XXXX	\$XXXX	\$XXXX	\$48/,336	\$24,150
		check	0	(0)	0	0	(0)	0	(0)	0)	(0)	0	0	0	0)	(0)

	L						2019	2019 GRC Pronosed	- d						
Units Acct.	Energy (MWh)													ĺ	
MWh 555H	Lower Baker	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXXS
Mwh 555H	Upper Baker	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXXS	\$XXXX	\$XXXX	\$XXXX
MWh 555H	Snoqualmie Falls	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
MWh 555H	Canadian Entitlement	(12,064)	(12,002)	(12,464)	(12,002)	(11, 788)	(12,096)	(11, 334)	(10, 728)	(9,803)	(9,049)	(11,664)	(11,232)	(136, 225)	
MWh 555H	Mid C Priest Rapids Project	3,502	4,674	4,949	4,863	3,661	3,592	4,196	3,976	2,805	2,553	3,882	4,044	46,697	264,479
MWh 555H	Mid C Rock Island	56,600	56,109	57,462	54,085	40,903	41,869	52,746	56,967	60,849	53,657	51,524	51,992	634,763	10,730
MWh 555H	Mid C Rocky Reach	163,610	170,914	151,977	136,579	89,336	90,894	118,941	130,133	148,837	125,844	116,679	126,970	1,570,714	4,944
MWh 555H	Mid C Wells	91,379	99,128	93,985	84,972	54,595	54,997	69,645	40,387	30,197	26,513	54,522	61,262	761,581	8,109
Mwh 501	Colstrip 1&2	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
Mwh 501	Colstrip 3&4	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
Mwh 547	Goldendale	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
Mwh 547	Mint Farm	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX
Mwh 547	Sumas	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	Freddy 1	XXXX\$	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX
MWh 547	Encogen	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXXS	XXXX\$	XXXX\$	XXXXS	XXXXS	\$XXXX	\$XXXX	\$XXXX	\$XXXX
Mwh 547	Fredonia 1&2	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXXS	XXXX\$	XXXXS	\$XXXX	XXXX\$
MWh 547	Fredonia 3&4	XXXX\$	XXXX\$	XXXX\$	XXXXS	XXXX\$	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXXS	XXXXS	\$XXXX	\$XXXX	\$XXXX
MWh 547	Frederickson 1&2	XXXX\$	\$XXXX	\$XXXX	XXXXS	XXXX\$	XXXXS	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX
MWh 547	Whitehorn 2&3	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
MWh 547	Ferndale	XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXXS	XXXXS	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX	\$XXXX
MWh 548	Crystal Mountain	XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXXS	XXXXS	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX	\$XXXX
MWh 555	Centralia coal PPA	XXXX\$	\$XXXX	\$XXXX	XXXXS	XXXX\$	XXXXS	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX
MWh 555WS	Lund Hill solar PPA	XXXX\$	\$XXXX	\$XXXX	XXXXS	XXXX\$	XXXXS	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXXS	\$XXXX	\$XXXX	\$XXXX
MWh 555WS	Skookumchuck wind PPA	XXXX\$	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX
MWh 555WS	Hopkins Ridge wind	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXXS	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	\$XXXX
MWh 555WS	Wild Horse wind	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	8XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	8XXXX	\$XXXX	\$XXXX	XXXX\$
	Wild Horse Expansion wind	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	XXXXS	\$XXXX	XXXXS	\$XXXX	XXXX\$
	Lower Snake River wind	XXXX\$	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXXS	XXXX\$	XXXX\$	XXXX\$	XXXXS	XXXXS	XXXX\$	\$XXXX	\$XXXX
	Klondike IIII wind PPA	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	XXXX\$	XXXX\$	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	Electron hydro PPA	8XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	XXXX\$	8XXXX	XXXX\$	XXXX\$	XXXX\$	\$XXXX	8XXXX
MWh 555	Baker Replacement	•		,				1,749	1,750	1,750	1,750		•	6,998	0
MWh 555	Glacier Battery Storage	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	\$XXXXX	XXXXX\$
MWh 555	PG&E Exchange		(49,129)	(110, 376)	(134,738)	(118,757)		126,724	181,278	58,801	46,197			0	
	Point Roberts (BC Hydro)	1,356	1,201	1,327	1,318	1,239	1,479	2,063	2,542	2,499	2,082	2,034	1,585	20,726	
MWh 555H	QF Koma Kulshan	5,946	7,586	5,469	2,269	1,453	2,919	4,052	2,644	2,418	1,535	1,437	2,279	40,006	
	QF Twin Falls	11,654	9,860	3,448	378	459	2,670	6,786	7,300	7,551	6,170	6,954	8,761	71,991	
	QF Weeks Falls	2,243	2,073	671	67	61	478	1,268	1,301	1,243	1,009	1,093	1,737	13,243	
	Schedule 91 contracts	20,889	20,609	21,425	20,311	17,665	16,176	14,990	14,162	15,059	14,182	17,199	18,631	211,297	Ű
	PSE Hedges Sales	\$XXXX	\$XXXX	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	\$XXXX	\$XXXX	XXXX\$	XXXX\$	\$XXXX	\$XXXX	\$XXXX
	PSE Hedges Purchases	\$XXXX	\$XXXX	\$XXXX	XXXX\$	\$XXXX	XXXXS	XXXXS	XXXXS	XXXX\$	XXXX\$	XXXXS	XXXX\$	\$XXXX	XXXX\$
MWh 555MP	Market Purchases	SXXXX SXXXX	XXXXS	SXXXX SXXXX	XXXX XXXX	\$XXXX	SXXXX SVVVV	SXXXX svvvv	SXXXX svvvv	SXXXX SVVVV	SXXXX svvvv	SXXXX SVVVV	SXXXX svvvv	SXXXX SXXXX	SXXXX SVVVV
	INIAINOL DATO	VVVV¢		VVVV¢	VVVV¢					VVVV¢					WWW
MWh		SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX	SXXXX SVVVV	SXXXX	SXXXX	23,152,655	
	SUDIOIAL AUKUKA Energy	VVVVe	VVVVe	VVVVe	VVVVe	VVVVe	VVVVe	VVVVV	VVVVV	V V V V V	VVVVV	V V V V V	VVVVV		

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