

**EXHIBIT NO. ___(JAP-31)
DOCKETS UE-17___/UG-17___
2017 PSE GENERAL RATE CASE
WITNESS: JON A. PILIARIS**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

Docket UE-17___

Docket UG-17___

**THIRTIETH EXHIBIT (NONCONFIDENTIAL) TO THE
PREFILED DIRECT TESTIMONY OF**

JON A. PILIARIS

ON BEHALF OF PUGET SOUND ENERGY

JANUARY 13, 2017

**Puget Sound Energy
Gas Decoupling Mechanism
Development of Decoupled Revenue by Decoupling Group**

Line No.	Source	Schedules 23 & 53	Schedules 31 & 31T	Schedules 41, 41T, 86 & 86T	Schedule 23	Schedule 53	Schedule 31	Schedule 31T	Schedule 41	Schedule 41T	Schedule 86	Schedule 86T	
(a)	(b)	(c) = Σ (f & g)	(d) = Σ (h & i)	(e) = Σ (j thru m)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
1													
2	Total Proforma Delivery Revenue	Exhibit JAP-24	\$ 319,131,117	\$ 94,873,292	\$ 16,387,916	\$ 319,130,879	\$ 238	\$ 94,857,037	\$ 16,256	\$ 12,731,212	\$ 1,428,633	\$ 2,140,331	\$ 87,741
3													
4	Basic Charge Revenue	Exhibit JAP-24	\$ 99,506,336	\$ 23,883,729	\$ 2,624,893	\$ 99,506,193	\$ 143	\$ 23,874,840	\$ 8,888	\$ 1,823,497	\$ 362,197	\$ 416,487	\$ 22,713
5	Minimum Charge Revenue	Exhibit JAP-24	\$ -	\$ -	\$ 2,120,091	\$ -	\$ -	\$ -	\$ -	\$ 1,985,540	\$ 102,247	\$ 32,304	\$ -
6	Total Basic & Minimum Charge Revenue	(4) + (5)	\$ 99,506,336	\$ 23,883,729	\$ 4,744,984	\$ 99,506,193	\$ 143	\$ 23,874,840	\$ 8,888	\$ 3,809,037	\$ 464,443	\$ 448,791	\$ 22,713
7													
8	Net Proforma Delivery Revenue	(2) - (6)	<u>\$ 219,624,781</u>	<u>\$ 70,989,564</u>	<u>\$ 11,642,932</u>	<u>\$ 219,624,686</u>	<u>\$ 95</u>	<u>\$ 70,982,196</u>	<u>\$ 7,367</u>	<u>\$ 8,922,175</u>	<u>\$ 964,189</u>	<u>\$ 1,691,540</u>	<u>\$ 65,027</u>

**Puget Sound Energy
Gas Decoupling Mechanism
Development of Allowed Delivery Revenue Per Customer**

Line No.	Source	Schedules 23 & 53	Schedules 31 & 31T	Schedules 41, 41T, 86 & 86T	
(a)	(b)	(c)	(d)	(e)	
1	Test Year Delivery Revenue	JAP-31 Page 1	\$ 219,624,781	\$ 70,989,564	\$ 11,642,932
2					
3	Test Year Customers	UG-17XXXX WP	746,002	55,899	1,709
4					
5	Annual Allowed Delivery Revenue Per Customer	(1) / (3)	<u>\$ 294.40</u>	<u>\$ 1,269.96</u>	<u>\$ 6,812.72</u>

**Puget Sound Energy
Gas Decoupling Mechanism
Development of Delivery Revenue Per Unit Rates (\$/therm)**

Line No.	(a)	Source (b)	Schedules 23 & 53 (c)	Schedules 31 & 31T (d)	Schedules 41, 41T, 86 & 86T (e)
1	Test Year Delivery Revenue	JAP-31 Page 1	\$ 219,624,781	\$ 70,989,564	\$ 11,642,932
2					
3	Test Year Base Sales (therms)	UG-17XXXX WP	577,777,493	214,593,771	64,537,345
4					
5	Volumetric Delivery Revenue Per Unit (\$/therm)	(1) / (3)	<u>\$ 0.38012</u>	<u>\$ 0.33081</u>	<u>\$ 0.18041</u>

**Puget Sound Energy
Gas Decoupling Mechanism
Development of Monthly Allowed Delivery Revenue Per Customer**

Line No.	Source	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
Sales															
1	<u>Schedules 23 & 53</u>														
2	Weather-Normalized Therm Sales (Oct15-Sep16)	UG-17XXXX WP	91,631,573	77,709,459	65,346,817	45,835,215	28,855,791	19,254,696	14,546,792	13,454,921	19,361,292	42,899,000	62,208,003	96,673,934	577,777,493
3	% of Annual Total	% of (C(o):R(2))	15.86%	13.45%	11.31%	7.93%	4.99%	3.33%	2.52%	2.33%	3.35%	7.42%	10.77%	16.73%	100.00%
4															
5	<u>Schedules 31 & 31T</u>														
6	Weather-Normalized Therm Sales (Oct15-Sep16)	UG-17XXXX WP	31,770,260	26,711,769	23,200,721	16,754,245	11,989,321	9,315,966	8,167,643	7,909,176	9,242,944	15,432,750	21,444,024	32,654,952	214,593,771
7	% of Annual Total	% of (C(o):R(6))	14.80%	12.45%	10.81%	7.81%	5.59%	4.34%	3.81%	3.69%	4.31%	7.19%	9.99%	15.22%	100.00%
8															
9	<u>Schedules 41, 41T, 86 & 86T</u>														
10	Weather-Normalized Therm Sales (Oct15-Sep16)	UG-17XXXX WP	8,510,506	7,477,144	6,924,871	5,284,510	4,161,800	3,323,650	2,749,436	2,813,394	3,324,309	5,098,288	6,425,491	8,443,945	64,537,345
11	% of Annual Total	% of (C(o):R(10))	13.19%	11.59%	10.73%	8.19%	6.45%	5.15%	4.26%	4.36%	5.15%	7.90%	9.96%	13.08%	100.00%
12															
13	Monthly Allowed Delivery Revenue Per Customer														
14	<u>Schedules 23 & 53</u>														
15	Allowed Delivery Revenue Per Customer	JAP-31 Page 2													\$ 294.40
16	Monthly Allowed Delivery Revenue Per Customer	(3) x (15)	\$ 46.69	\$ 39.60	\$ 33.30	\$ 23.35	\$ 14.70	\$ 9.81	\$ 7.41	\$ 6.86	\$ 9.87	\$ 21.86	\$ 31.70	\$ 49.26	\$ 294.40
17															
18	<u>Schedules 31 & 31T</u>														
19	Allowed Delivery Revenue Per Customer	JAP-31 Page 2													\$ 1,269.96
20	Monthly Allowed Delivery Revenue Per Customer	(7) x (19)	\$ 188.02	\$ 158.08	\$ 137.30	\$ 99.15	\$ 70.95	\$ 55.13	\$ 48.34	\$ 46.81	\$ 54.70	\$ 91.33	\$ 126.91	\$ 193.25	\$ 1,269.96
21															
22	<u>Schedules 41, 41T, 86 & 86T</u>														
23	Allowed Delivery Revenue Per Customer	JAP-31 Page 2													\$ 6,812.72
24	Monthly Allowed Delivery Revenue Per Customer	(11) x (23)	\$ 1,008.61	\$ 848.02	\$ 736.55	\$ 531.90	\$ 380.63	\$ 295.75	\$ 259.30	\$ 251.09	\$ 293.44	\$ 489.94	\$ 680.78	\$ 1,036.70	\$ 6,812.72

**Puget Sound Energy
Gas Decoupling Mechanism
Delivery Revenue Deferral and Amortization Calculations
Schedule 23 & 53**

Line No.	Source	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1	Actual Customers	Forecast	765,356	766,622	767,351	767,901	768,060	768,180	767,921	768,127	768,839	770,543	772,503	774,273	
2	Monthly Allowed Delivery RPC	JAP-31 Page 4	\$ 46.69	\$ 39.60	\$ 33.30	\$ 23.35	\$ 14.70	\$ 9.81	\$ 7.41	\$ 6.86	\$ 9.87	\$ 21.86	\$ 31.70	\$ 49.26	\$ 294.40
3	Allowed Delivery Revenue	(1) x (2)	\$ 35,734,345	\$ 30,355,147	\$ 25,550,281	\$ 17,934,187	\$ 11,292,896	\$ 7,536,624	\$ 5,691,949	\$ 5,266,127	\$ 7,584,849	\$ 16,843,069	\$ 24,486,326	\$ 38,140,000	\$ 226,415,800
4															
5	Actual Therms	Forecast	92,825,811	79,116,487	70,321,773	50,344,081	29,807,422	19,685,795	13,977,581	13,268,603	18,617,326	43,464,485	77,423,968	100,798,217	609,651,549
6	Delivery Revenue Per Unit (\$/Therm)	JAP-31 Page 3	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012	\$ 0.38012
7	Actual Delivery Revenue	(5) x (6)	\$ 35,284,947	\$ 30,073,759	\$ 26,730,712	\$ 19,136,792	\$ 11,330,397	\$ 7,482,964	\$ 5,313,158	\$ 5,043,661	\$ 7,076,818	\$ 16,521,720	\$ 29,430,399	\$ 38,315,418	\$ 231,740,747
8															
9	Deferral	(3) - (7)	\$ 449,397	\$ 281,388	\$ (1,180,431)	\$ (1,202,605)	\$ (37,501)	\$ 53,660	\$ 378,790	\$ 222,466	\$ 508,031	\$ 321,349	\$ (4,944,073)	\$ (175,418)	\$ (5,324,947)
10															
11	Interest	FERC Rate	\$ 520	\$ 1,335	\$ (194)	\$ (3,845)	\$ (5,771)	\$ (5,819)	\$ (5,238)	\$ (4,401)	\$ (3,382)	\$ (2,263)	\$ (9,181)	\$ (16,906)	\$ (55,144)
12															
13	Cumulative Deferral & Interest	Σ(9) + (11)	\$ 449,917	\$ 732,641	\$ (447,984)	\$ (1,654,435)	\$ (1,697,707)	\$ (1,649,867)	\$ (1,276,314)	\$ (1,058,248)	\$ (553,599)	\$ (234,513)	\$ (5,187,767)	\$ (5,380,091)	
14															
15	Deferral Amortization Rate (\$/Therm)	Illustrative	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100	\$ 0.00100
16															
17	Deferral Amortization	(5) x (15)	\$ 92,826	\$ 79,116	\$ 70,322	\$ 50,344	\$ 29,807	\$ 19,686	\$ 13,978	\$ 13,269	\$ 18,617	\$ 43,464	\$ 77,424	\$ 100,798	\$ 609,652
18															
19	Cumulative Deferral & Interest Net of Amortization	(19)+(9)+(11)-(17)	\$ 357,091	\$ 560,698	\$ (690,249)	\$ (1,947,043)	\$ (2,020,123)	\$ (1,991,968)	\$ (1,632,393)	\$ (1,427,596)	\$ (941,564)	\$ (665,942)	\$ (5,696,620)	\$ (5,989,743)	

Note: Deferrals and amortizations will be booked net of revenue sensitive items on PSE's balance sheet.

**Puget Sound Energy
Gas Decoupling Mechanism
Delivery Revenue Deferral and Amortization Calculations
Schedules 31 & 31T**

Line No.	Source	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1	Actual Customers	Forecast	57,097	57,205	57,274	57,287	57,299	57,311	57,321	57,319	57,366	57,487	57,693	57,854	
2	Monthly Allowed Delivery RPC	JAP-31 Page 4	\$ 188.02	\$ 158.08	\$ 137.30	\$ 99.15	\$ 70.95	\$ 55.13	\$ 48.34	\$ 46.81	\$ 54.70	\$ 91.33	\$ 126.91	\$ 193.25	\$ 1,269.96
3	Allowed Delivery Revenue	(1) x (2)	\$ 10,735,122	\$ 9,042,938	\$ 7,863,790	\$ 5,680,072	\$ 4,065,506	\$ 3,159,649	\$ 2,770,661	\$ 2,682,889	\$ 3,137,891	\$ 5,250,321	\$ 7,321,538	\$ 11,180,349	\$ 72,890,728
4															
5	Actual Delivery Revenue	Work Paper	\$ 10,855,450	\$ 9,163,941	\$ 8,458,413	\$ 6,450,141	\$ 4,272,246	\$ 3,255,955	\$ 2,485,723	\$ 2,645,462	\$ 3,211,818	\$ 5,582,999	\$ 8,877,519	\$ 11,433,168	\$ 76,692,836
6															
7	Deferral	(3) - (5)	\$ (120,327)	\$ (121,002)	\$ (594,622)	\$ (770,069)	\$ (206,741)	\$ (96,306)	\$ 284,938	\$ 37,427	\$ (73,927)	\$ (332,678)	\$ (1,555,981)	\$ (252,819)	\$ (3,802,108)
8															
9	Interest	FERC Rate	\$ (224)	\$ (665)	\$ (1,787)	\$ (3,844)	\$ (5,316)	\$ (5,791)	\$ (5,542)	\$ (5,095)	\$ (5,174)	\$ (5,806)	\$ (8,625)	\$ (11,353)	\$ (59,222)
10															
11	Cumulative Deferral & Interest	Σ(7) + (9)	\$ (120,551)	\$ (242,218)	\$ (838,628)	\$ (1,612,540)	\$ (1,824,596)	\$ (1,926,694)	\$ (1,647,298)	\$ (1,614,965)	\$ (1,694,067)	\$ (2,032,551)	\$ (3,597,157)	\$ (3,861,329)	
12															
13	Deferral Amortization	Work Paper	\$ 33,143	\$ 27,979	\$ 25,825	\$ 19,693	\$ 13,044	\$ 10,070	\$ 7,589	\$ 8,077	\$ 9,806	\$ 17,046	\$ 27,104	\$ 34,907	\$ 234,281
14															
15	Cumulative Deferral & Interest Net of Amortization	(15)+(7)+(9)-(13)	\$ (153,694)	\$ (303,340)	\$ (925,574)	\$ (1,719,179)	\$ (1,944,279)	\$ (2,056,447)	\$ (1,784,640)	\$ (1,760,384)	\$ (1,849,292)	\$ (2,204,822)	\$ (3,796,532)	\$ (4,095,611)	

Note: Deferrals and amortizations will be booked net of revenue sensitive items on PSE's balance sheet.

Puget Sound Energy
Gas Decoupling Mechanism
Delivery Revenue Deferral and Amortization Calculations
Schedules 41, 41T, 86 & 86T

Line No.	Source	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Total	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
1	Actual Customers	Forecast	1,663	1,659	1,654	1,652	1,650	1,648	1,646	1,643	1,643	1,640	1,638	1,635	
2	Monthly Allowed Delivery RPC	JAP-31 Page 4	\$ 1,008.61	\$ 848.02	\$ 736.55	\$ 531.90	\$ 380.63	\$ 295.75	\$ 259.30	\$ 251.09	\$ 293.44	\$ 489.94	\$ 680.78	\$ 1,036.70	\$ 6,812.72
3	Allowed Delivery Revenue	(1) x (2)	\$ 1,677,322	\$ 1,406,865	\$ 1,218,261	\$ 878,695	\$ 628,032	\$ 487,403	\$ 426,805	\$ 412,546	\$ 482,116	\$ 803,509	\$ 1,115,125	\$ 1,695,002	\$ 11,231,682
4															
5	Actual Delivery Revenue	Work Paper	\$ 1,812,611	\$ 1,786,177	\$ 1,733,366	\$ 1,474,929	\$ 1,212,951	\$ 1,339,697	\$ 1,065,442	\$ 1,042,360	\$ 1,091,434	\$ 1,465,482	\$ 1,776,755	\$ 1,901,526	\$ 17,702,727
6															
7	Deferral	(3) - (5)	\$ (135,289)	\$ (379,311)	\$ (515,105)	\$ (596,233)	\$ (584,918)	\$ (852,293)	\$ (638,637)	\$ (629,814)	\$ (609,318)	\$ (661,974)	\$ (661,629)	\$ (206,524)	\$ (6,471,045)
8															
9	Interest	FERC Rate	\$ (219)	\$ (1,012)	\$ (2,358)	\$ (4,017)	\$ (5,771)	\$ (7,898)	\$ (10,101)	\$ (11,976)	\$ (13,809)	\$ (15,694)	\$ (17,663)	\$ (18,973)	\$ (109,490)
10															
11	Cumulative Deferral & Interest	Σ(7) + (9)	\$ (135,507)	\$ (515,831)	\$ (1,033,293)	\$ (1,633,543)	\$ (2,224,232)	\$ (3,084,423)	\$ (3,733,161)	\$ (4,374,951)	\$ (4,998,079)	\$ (5,675,746)	\$ (6,355,039)	\$ (6,580,535)	
12															
13	Deferral Amortization	Work Paper	\$ 14,764	\$ 14,433	\$ 14,052	\$ 12,032	\$ 9,939	\$ 11,149	\$ 8,848	\$ 8,629	\$ 9,059	\$ 11,984	\$ 14,496	\$ 15,431	\$ 144,816
14															
15	Cumulative Deferral & Interest Net of Amortization	(15)+(7)+(9)-(13)	\$ (150,271)	\$ (545,027)	\$ (1,076,542)	\$ (1,688,824)	\$ (2,289,453)	\$ (3,160,793)	\$ (3,818,378)	\$ (4,468,798)	\$ (5,100,984)	\$ (5,790,635)	\$ (6,484,423)	\$ (6,725,351)	

Note: Deferrals and amortizations will be booked net of revenue sensitive items on PSE's balance sheet.