EXHIBIT NO. ___(JAP-3C)
DOCKET NO. UE-11___/UG-11__
2011 PSE GENERAL RATE CASE
WITNESS: JON A. PILIARIS

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION,	
Complainant,	
v.	Docket No. UE-11 Docket No. UG-11
PUGET SOUND ENERGY, INC.,	
Respondent.	

SECOND EXHIBIT (CONFIDENTIAL) TO THE PREFILED DIRECT TESTIMONY OF JON A. PILIARIS ON BEHALF OF PUGET SOUND ENERGY, INC.

REDACTED VERSION

JUNE 13, 2011

Puget Sound Energy Electric Cost of Service Derivation of Peak Credit

PEAK CREDIT METHOD FOR 2011 COST OF SERVICE STUDY COMPANY PROPOSAL

			Peak
	Peaker	CCCT	Credit
Levelized Cost (\$/MWh)		129	
Levelized Cost (\$/kW-yr)	210	1,094	19.2%

Assumptions

	Plant Assu	_	
	Peaker	CCCT	Notes
1 Capital Costs (\$/kW-yr)	\$1,010	\$1,540	2010 Dollars
2 Fixed Charge Rate	12.91%	12.91%	
3 Fixed O&M (\$/kW-yr)	\$15.90	\$53.80	2010 Dollars
4 Variable O&M (\$/MWh)	\$5.87	\$2.44	2010 Dollars
5 Heat Rate (Btu/kWh)	10,440	7,085	
6 Weighted Cost of Capital	8.42%	8.42%	
7 Capacity Factor		97%	
8 Reserve Margin	7.0%	7.0%	
9 Planning Margin	15.7%	15.7%	
10 CO ₂ Emissions (tons/GWh)	605.0	410.6	
11 SO ₂ Emissions (tons/GWh)	0.0470	0.0248	
12 NO _x Emissions (tons/GWh)	0.0522	0.0354	

	Weighted Cost of Capital				
	Pro Forma		Cost of		
	Capital %	Cost %	Capital		
13 Short-Term Debt	4.00%	4.62%	0.18%		
14 Long-Term Debt	48.00%	6.37%	3.06%		
15 Common Equity	48.00%	10.80%	5.18%		
16 TOTAL	100.00%		8.42%		

Puget Sound Energy Electric Cost of Service Derivation of Peak Credit

PEAK CREDIT METHOD FOR 2011 COST OF SERVICE STUDY COMPANY PROPOSAL

Combined Cycle Plant (Nominal \$)

Year	Capital Cost \$/MWh	Fixed O&M \$/MWh	Variable O&M \$/MWh	Natural Gas \$/MWh	Emissions \$/MWh	Margin \$/MWh	Total \$/MWh	Annual Inflation
2012	\$24.58	\$6.65	\$2.56		\$0.09	\$7.09		2.50%
2013	\$24.58	\$6.82	\$2.62		\$7.59	\$7.13		2.50%
2014	\$24.58	\$6.99	\$2.69		\$8.18	\$7.17		2.50%
2015	\$24.58	\$7.16	\$2.76		\$8.87	\$7.20		2.50%
2016	\$24.58	\$7.34	\$2.83		\$9.47	\$7.25		2.50%
2017	\$24.58	\$7.52	\$2.90		\$10.20	\$7.29		2.50%
2018	\$24.58	\$7.71	\$2.97		\$11.00	\$7.33		2.50%
2019	\$24.58	\$7.90	\$3.04		\$11.85	\$7.37		2.50%
2020	\$24.58	\$8.10	\$3.12		\$12.78	\$7.42		2.50%
2021	\$24.58	\$8.30	\$3.20		\$13.74	\$7.46		2.50%
2022	\$24.58	\$8.51	\$3.28		\$14.79	\$7.51		2.50%
2023	\$24.58	\$8.72	\$3.36		\$15.88	\$7.56		2.50%
2024	\$24.58	\$8.94	\$3.44		\$17.09	\$7.61		2.50%
2025	\$24.58	\$9.16	\$3.53		\$18.38	\$7.66		2.50%
2026	\$24.58	\$9.39	\$3.62		\$19.77	\$7.71		2.50%
2027	\$24.58	\$9.62	\$3.71		\$21.26	\$7.76		2.50%
2028	\$24.58	\$9.86	\$3.80		\$22.85	\$7.82		2.50%
2029	\$24.58	\$10.11	\$3.90		\$24.58	\$7.87		2.50%
2030	\$24.58	\$10.36	\$4.00		\$26.44	\$7.93		2.50%
2031	\$24.58	\$10.62	\$4.10		\$27.10	\$7.99		2.50%
2032	\$24.58	\$10.89	\$4.20		\$27.77	\$8.05		2.50%
2033	\$24.58	\$11.16	\$4.31		\$28.47	\$8.11		2.50%
2034	\$24.58	\$11.44	\$4.42		\$29.18	\$8.18		2.50%
2035	\$24.58	\$11.73	\$4.53		\$29.91	\$8.24		2.50%
2036	\$24.58	\$12.02	\$4.64		\$30.66	\$8.31		2.50%
2037	\$24.58	\$12.32	\$4.76		\$31.42	\$8.38		2.50%
2038	\$24.58	\$12.63	\$4.88		\$32.21	\$8.45		2.50%
2039	\$24.58	\$12.95	\$5.00		\$33.01	\$8.52		2.50%
2040	\$24.58	\$13.27	\$5.13		\$33.84	\$8.59		2.50%
2041	\$24.58	\$13.60	\$5.26		\$34.69	\$8.67		2.50%

REDACTED VERSION

Puget Sound Energy Electric Cost of Service Derivation of Peak Credit

PEAK CREDIT METHOD FOR 2011 COST OF SERVICE STUDY COMPANY PROPOSAL

Peaker Plant (Nominal \$)

Year	Capital Cost \$/kW-yr	Fixed O&M \$/kW-yr	Variable O&M \$/kW-yr	Natural Gas \$/kW-yr	Emissions \$/kW-yr	Margin \$/kW-yr	Total \$/kW-yr	Annual Inflation
2012	\$136.99	\$16.70	\$0.00	\$0.00	\$0.00	\$34.89	\$188.58	2.50%
2013	\$136.99	\$17.12	\$0.00	\$0.00	\$0.00	\$34.98	\$189.09	2.50%
2014	\$136.99	\$17.55	\$0.00	\$0.00	\$0.00	\$35.08	\$189.62	2.50%
2015	\$136.99	\$17.99	\$0.00	\$0.00	\$0.00	\$35.18	\$190.16	2.50%
2016	\$136.99	\$18.44	\$0.00	\$0.00	\$0.00	\$35.28	\$190.71	2.50%
2017	\$136.99	\$18.90	\$0.00	\$0.00	\$0.00	\$35.39	\$191.28	2.50%
2018	\$136.99	\$19.37	\$0.00	\$0.00	\$0.00	\$35.49	\$191.85	2.50%
2019	\$136.99	\$19.85	\$0.00	\$0.00	\$0.00	\$35.60	\$192.44	2.50%
2020	\$136.99	\$20.35	\$0.00	\$0.00	\$0.00	\$35.72	\$193.06	2.50%
2021	\$136.99	\$20.86	\$0.00	\$0.00	\$0.00	\$35.83	\$193.68	2.50%
2022	\$136.99	\$21.38	\$0.00	\$0.00	\$0.00	\$35.95	\$194.32	2.50%
2023	\$136.99	\$21.91	\$0.00	\$0.00	\$0.00	\$36.07	\$194.97	2.50%
2024	\$136.99	\$22.46	\$0.00	\$0.00	\$0.00	\$36.20	\$195.65	2.50%
2025	\$136.99	\$23.02	\$0.00	\$0.00	\$0.00	\$36.32	\$196.33	2.50%
2026	\$136.99	\$23.60	\$0.00	\$0.00	\$0.00	\$36.45	\$197.04	2.50%
2027	\$136.99	\$24.19	\$0.00	\$0.00	\$0.00	\$36.59	\$197.77	2.50%
2028	\$136.99	\$24.79	\$0.00	\$0.00	\$0.00	\$36.72	\$198.50	2.50%
2029	\$136.99	\$25.41	\$0.00	\$0.00	\$0.00	\$36.86	\$199.26	2.50%
2030	\$136.99	\$26.05	\$0.00	\$0.00	\$0.00	\$37.01	\$200.05	2.50%
2031	\$136.99	\$26.70	\$0.00	\$0.00	\$0.00	\$37.16	\$200.85	2.50%
2032	\$136.99	\$27.37	\$0.00	\$0.00	\$0.00	\$37.31	\$201.67	2.50%
2033	\$136.99	\$28.05	\$0.00	\$0.00	\$0.00	\$37.46	\$202.50	2.50%
2034	\$136.99	\$28.75	\$0.00	\$0.00	\$0.00	\$37.62	\$203.36	2.50%
2035	\$136.99	\$29.47	\$0.00	\$0.00	\$0.00	\$37.79	\$204.25	2.50%
2036	\$136.99	\$30.21	\$0.00	\$0.00	\$0.00	\$37.95	\$205.15	2.50%
2037	\$136.99	\$30.97	\$0.00	\$0.00	\$0.00	\$38.13	\$206.09	2.50%
2038	\$136.99	\$31.74	\$0.00	\$0.00	\$0.00	\$38.30	\$207.03	2.50%
2039	\$136.99	\$32.53	\$0.00	\$0.00	\$0.00	\$38.48	\$208.00	2.50%
2040	\$136.99	\$33.34	\$0.00	\$0.00	\$0.00	\$38.66	\$208.99	2.50%
2041	\$136.99	\$34.17	\$0.00	\$0.00	\$0.00	\$38.85	\$210.01	2.50%