

Exhibit \_\_\_\_ (DRS-4)  
Docket Nos. UE-920433, UE-920499 and UE-921262  
Witness: Diane R. Sorrells

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

Petition of PUGET SOUND POWER &  
LIGHT COMPANY for an Order  
Regarding the Accounting Treatment  
of Residential Exchange Benefits

DOCKET NO. UE-920433

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

DOCKET NO. UE-920499

v.

PUGET SOUND POWER & LIGHT COMPANY,

Respondent.

WASHINGTON UTILITIES AND  
TRANSPORTATION COMMISSION,

Complainant,

DOCKET NO. UE-921262

v.

PUGET SOUND POWER & LIGHT COMPANY,

Respondent.

EXHIBIT OF

DIANE R. SORRELLS

For Commission Staff

RECEIVED  
RECORDS MANAGEMENT  
93 FEB 24 PM 4:48  
STATE OF WASH.  
UTIL. AND TRANSP.  
COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION  
UE-920433; -920499;  
No. -921262 Ex. 37 ✓

Puget Sound Power & Light Company  
Docket No. UE-920499  
Response to Record Requisition #1

Request

Recalculate CEL Exhibit 4 assuming gas use for the 200 peak hours of operation of the CT. Provide the date, time, and duration of each instance where gas to Puget Power's combustion turbines has been interrupted since September, 1988.

Response by Ms. Lynch

Attachment number 1 indicates that the peak credit method results in a 12% demand allocation with the assumption of 200 hours of gas use in the combustion turbine, the peaking unit.

Puget Power does not record this information as a normal part of its operations. Therefore, the following list of dates may not be exhaustive.

Cascade Natural Gas curtailed Puget Power's gas service for gas days

- o December 20 - December 30, 1990,
- o January 2 - January 3, 1991, and
- o January 9 - January 13, 1991.

Puget is currently debating a contractual dispute on this issue. Puget contends that gas service was made unavailable from December 19, 1990 through January 14, 1991.

Response to Rate Design Case Record Requisition #1 RDCREC01.XLS  
 RESTATEMENT OF THE PEAK CREDIT - ASSUMING GAS USE FOR 200 PEAK HO  
 Combined Cycle Plant

Year	Capital Cost \$/MWH Yr	Fixed O&M \$/MWH	Variable O&M \$/MWH	Gas \$/MMBTU	Gas \$/MWH	Total \$/MWH
1991	\$12.58	0.8	3.2	2	15.48	32.06
1992	\$12.58	0.8	3.3	2.1	16.25	32.94
1993	\$12.58	0.8	3.4	2.1	16.25	33.04
1994	\$12.58	0.8	3.5	2.3	17.80	34.68
1995	\$12.58	0.9	3.6	2.4	18.58	35.66
1996	\$12.58	0.9	3.7	2.5	19.35	36.53
1997	\$12.58	0.9	3.8	2.7	20.90	38.18
1998	\$12.58	1	4	2.9	22.45	40.03
1999	\$12.58	1	4.1	3.1	23.99	41.68
2000	\$12.58	1	4.3	3.3	25.54	43.42
2001	\$12.58	1.1	4.4	3.6	27.86	45.95
2002	\$12.58	1.1	4.6	3.8	29.41	47.69
2003	\$12.58	1.2	4.8	4.1	31.73	50.32
2004	\$12.58	1.2	5	4.4	34.06	52.84
2005	\$12.58	1.3	5.2	4.7	36.38	55.46
2006	\$12.58	1.3	5.4	5.1	39.47	58.76
2007	\$12.58	1.4	5.7	5.4	41.80	61.48
2008	\$12.58	1.4	5.9	5.8	44.89	64.77
2009	\$12.58	1.5	6.2	6.2	47.99	68.27
2010	\$12.58	1.6	6.4	6.6	51.08	71.67
2011	\$12.58	1.68	6.72	6.93	53.64	74.62
2012	\$12.58	1.76	7.06	7.28	56.32	77.72
2013	\$12.58	1.85	7.41	7.64	59.14	80.98
2014	\$12.58	1.94	7.78	8.02	62.09	84.40
2015	\$12.58	2.04	8.17	8.42	65.20	87.99
2016	\$12.58	2.14	8.58	8.84	68.46	91.76
2017	\$12.58	2.25	9.01	9.29	71.88	95.72
2018	\$12.58	2.36	9.46	9.75	75.47	99.88
2019	\$12.58	2.48	9.93	10.24	79.25	104.24
2020	\$12.58	2.61	10.42	10.75	83.21	108.82

Response to Rate Design Case Record Requisition #1 RDCREC01.XLS  
 RESTATEMENT OF THE PEAK CREDIT - ASSUMING GAS USE FOR 200 PEAK HO

**Combustion Turbine**

Year	Capital Cost \$/kW Yr	Fixed O&M \$/kW Yr	Variable O&M \$/kW Yr	Gas \$/MMBTU	Gas \$/kW Yr	Total \$/kW Yr	Peak Credit \$/kW Yr
1991	\$51.98	6.3	0.8	2	3.10	62.18	33.04
1992	\$51.98	6.5	0.8	2.1	3.25	62.53	33.29
1993	\$51.98	6.7	0.8	2.1	3.25	62.73	33.39
1994	\$51.98	6.8	0.8	2.3	3.56	63.14	33.75
1995	\$51.98	7	0.8	2.4	3.72	63.50	34.01
1996	\$51.98	7.3	0.9	2.5	3.87	64.05	34.41
1997	\$51.98	7.5	0.9	2.7	4.18	64.56	34.82
1998	\$51.98	7.8	0.9	2.9	4.49	65.17	35.28
1999	\$51.98	8.1	1	3.1	4.80	65.88	35.84
2000	\$51.98	8.4	1	3.3	5.11	66.49	36.30
2001	\$51.98	8.7	1	3.6	5.57	67.25	36.91
2002	\$51.98	9.1	1.1	3.8	5.88	68.06	37.52
2003	\$51.98	9.5	1.1	4.1	6.35	68.93	38.19
2004	\$51.98	9.9	1.2	4.4	6.81	69.89	38.95
2005	\$51.98	10.3	1.2	4.7	7.28	70.76	39.62
2006	\$51.98	10.7	1.3	5.1	7.89	71.88	40.54
2007	\$51.98	11.1	1.3	5.4	8.36	72.74	41.20
2008	\$51.98	11.6	1.4	5.8	8.98	73.96	42.17
2009	\$51.98	12.1	1.4	6.2	9.60	75.08	43.04
2010	\$51.98	12.7	1.5	6.6	10.22	76.40	44.06
2011	\$51.98	13.34	1.58	6.93	10.73	77.62	44.96
2012	\$51.98	14.00	1.65	7.28	11.26	78.90	45.91
2013	\$51.98	14.70	1.74	7.64	11.83	80.25	46.91
2014	\$51.98	15.44	1.82	8.02	12.42	81.66	47.95
2015	\$51.98	16.21	1.91	8.42	13.04	83.14	49.05
2016	\$51.98	17.02	2.01	8.84	13.69	84.70	50.20
2017	\$51.98	17.87	2.11	9.29	14.38	86.34	51.41
2018	\$51.98	18.76	2.22	9.75	15.09	88.06	52.68
2019	\$51.98	19.70	2.33	10.24	15.85	89.86	54.02
2020	\$51.98	20.69	2.44	10.75	16.64	91.75	55.42

	Combustion Turbine	Peak CT	CC CT	Peak Credit
Levelized Cost \$/mWh			45.58	
Levelized Cost \$/kW Yr	67.22	36.88	319.41	12%

Assumptions

- 1 Fixed Charge Rate: 13.16%
- 2 Hours/Year CT Peak Operatic 200
- 3 CCCT Capacity Factor: 80%
- 4 Weighted Cost of Capital: 10.22%
- 5 1/2 of Capital & Fixed O&M For CT Used For Peak Credit Cost
- 6 fixed & variable O&M, gas, and fuel escalation rate beyond 2010: 5%