



Time-of-Use Pilot Program Pricing Proposal Detailed Rate Calculations

The attached material provides the detailed basis for the calculation of the time-of-use rates for Unitil's TOU pilot program. Specifically, the Company has calculated off-peak, on-peak and critical peak pricing, based on a nominal default service price of \$0.10 per kWh and an estimated monthly generation capacity value of \$5.00 per kw-month.

Attachment 1 updates the comparison of May and September peak loads to the summer peak load for 2009 data to demonstrate that these two months continue to be months in which there is not a significant likelihood of a summer peak occurring. This schedule enforces the initial determination that the TOU/CPP Pilot program will only run for the calendar months of June through August.

Attachment 2 demonstrates the top 75 load hours of the Company during the June through August 2009 period. Based on this schedule and discussions during the preliminary stages of this proceeding, the Company has made the decision to expand the on-peak period by one hour, now beginning at 12:00 PM instead of the original 1:00 PM proposal. The on peak period will still end at 6:00 PM as originally proposed. All other hours on weekdays and all hours during weekends and holidays shall be considered off-peak. The critical peak period will be between the hours of 12:00 PM and 6:00 PM on those days determined to be critical peak days. There will be no fewer than 2 and no more than 8 critical peak events called during the summer of 2010.

Attachment 3 shows the Company appropriate load zone locational marginal pricing for June through August 2009. This data has been compiled to determine the ratio of the average price during the on peak period to the average price during the off peak period. For FG&E the ratio is 1.4111 and for UES the ratio is 1.4049. This has been done because the NH Settlement Agreement in this proceeding called for such an analysis to be used in the development of pricing.

Attachment 4 is an example of the development of the TOU/CPP Default Service pricing. Firstly, the metered kWh for the residential class is determined based on customer class load profile data for 2009 and is shown for the on peak period, the off peak period, and 6 days determined as proxy days for a critical peak period in 2009. These were simply the 6 days for which the highest loads occurred during June through August 2009 for the Company, as shown on Attachment 2. The residential load profile data is shown in Attachment 5 and shows the on peak period and the proxy critical peak period days (shaded). Also shown in the rate calculation are the percentages of kWh in each of the rate periods. Next, the maximum hourly residential kW load is shown. The cost of marginal generation capacity has been estimated to be \$5.00 per kW-mo based on expectations of the auction price in the forward capacity market. Distribution losses are applied to the \$5.00 price and then multiplied by 3 (the number of months of the program) and multiplied by the maximum kW load to determine the addition cost of the



marginal generation capacity. This cost is then divided by the total kWh in the proxy critical peak period to get the \$/kWh for the Critical Peak Price adder.

To determine default service pricing, an assumption of \$0.10000 per kWh is used. The actual default service price, once determined, will be used instead. The revenue amount based on this price is shown. To determine the pricing, initially the on peak and critical peak prices are set equal and then the on peak price is set based on the ratio determined above (1.4111 or 1.4049) times the off peak price in order to achieve the target revenue amount. The on-peak price is set at this level. Next, the CPP adder is added to the on peak price to determine the CPP price, and the off peak price is recalculated to achieve the desire target revenue. By doing this, the incremental revenue from the CPP adder is deducted entirely from the off peak price. The result is a slightly larger gap between the off peak and on peak price.

Attachment 6 is a draft of the Residential TOU/CPP Default Service tariff and is provided here for informational purposes only because the final pricing will not be known until the conclusion of the requests for proposals for default service pricing and Company specific default service rate filings.

Attachment 7 (FG&E only) is a redlined version of a proposed default service tariff. The only revision of significance is for cost recovery of the Green Communities Act Pilot Programs through the Default Service charge. This is necessary to recover other costs in addition to the TOU/CPP pilot program.

Unitil Energy Systems, Inc.
May and September Percent of Annual Peaks 2006-2009

<u>Year</u>	<u>May Peak kW</u>	<u>May % Annual Peak</u>	<u>Sept Peak kW</u>	<u>Sept % Annual Peak</u>	<u>Summer Peak kW</u>	<u>Month of Summer Peak</u>
2006	191,773	63.5%	197,029	65.3%	301,959	August
2007	210,277	75.2%	237,996	85.1%	279,556	August
2008	191,521	71.7%	220,528	82.6%	266,998	July
2009	191,384	72.0%	184,500	69.4%	265,730	August

Date	Hour Ending	Load kW	Hour Ending	Occurrence
8/18/09	15	265,730	1	0
8/18/09	16	264,494	2	0
8/18/09	14	264,194	3	0
8/18/09	17	262,760	4	0
8/18/09	13	259,163	5	0
8/19/09	16	257,750	6	0
8/19/09	15	257,179	7	0
8/21/09	15	256,305	8	0
8/21/09	16	256,150	9	0
8/18/09	18	255,872	10	0
8/17/09	16	255,550	11	4
8/19/09	17	255,176	12	6
8/19/09	14	254,953	13	6 *
8/17/09	15	254,692	14	10 *
8/17/09	17	254,089	15	10 *
8/18/09	12	252,657	16	12 *
8/21/09	14	252,244	17	9 *
8/17/09	14	252,179	18	8 *
8/21/09	17	250,507	19	4
8/19/09	13	249,093	20	3
8/19/09	18	248,918	21	3
8/17/09	18	248,188	22	0
8/17/09	13	247,050	23	0
8/21/09	13	246,587	24	0
8/18/09	19	244,577		
8/19/09	12	243,878		
7/29/09	15	243,324		
8/17/09	12	242,429		
8/17/09	19	241,468		
7/29/09	14	241,020		
8/18/09	11	240,575		
8/19/09	19	240,290		
7/29/09	16	240,098		
8/21/09	12	239,321		
8/5/09	14	238,697		
8/21/09	18	238,086		
7/29/09	13	235,964		
8/5/09	15	235,625		
8/19/09	11	235,616		
8/18/09	20	235,533		
8/17/09	20	234,860		
8/5/09	13	234,835		
8/17/09	21	234,300		
8/18/09	21	233,477		
7/29/09	17	232,954		
8/17/09	11	232,688		
8/5/09	16	232,656		
7/27/09	15	231,993		
7/30/09	17	231,767		
8/19/09	20	231,714		
7/30/09	15	231,634		
7/28/09	17	231,308		
7/30/09	16	231,271		
7/28/09	16	231,025		
7/27/09	14	230,885		
8/10/09	18	230,686		
7/27/09	16	230,606		
7/29/09	12	230,520		
8/10/09	17	230,428		
8/5/09	12	229,665		
8/21/09	19	229,655		
7/28/09	15	229,616		
8/19/09	21	229,521		
8/20/09	15	229,205		
7/30/09	14	229,126		
8/21/09	11	228,184		
8/20/09	16	228,107		
8/5/09	17	227,683		
7/30/09	18	227,483		
8/11/09	16	227,461		
8/10/09	16	227,371		
7/29/09	18	227,114		
8/20/09	14	226,979		
7/28/09	18	226,610		
7/28/09	14	226,378		

* Revised On-Peak Period

97% of Peak 257,758
Earliest hour 13
Latest hour 17

Day Type	Date	Hour												On Peak Period												Page 1 of 2	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Weekday	6/1/2009	\$23.41	\$29.17	\$2.38	\$0.00	\$0.00	\$0.00	\$29.82	\$31.86	\$31.87	\$30.91	\$31.48	\$31.36	\$30.68	\$31.33	\$31.44	\$31.99	\$33.09	\$33.04	\$30.42	\$30.26	\$30.52	\$31.49	\$21.44	\$26.72		
Weekday	6/2/2009	\$28.76	\$22.33	\$29.63	\$30.01	\$27.10	\$20.35	\$28.18	\$33.67	\$31.32	\$30.88	\$32.62	\$31.08	\$32.21	\$32.07	\$33.16	\$33.35	\$35.09	\$39.37	\$36.63	\$38.71	\$39.75	\$37.77	\$39.23	\$36.03		
Weekday	6/3/2009	\$43.62	\$35.99	\$34.52	\$23.56	\$29.40	\$26.79	\$35.88	\$34.33	\$33.35	\$34.72	\$37.79	\$36.40	\$36.31	\$35.80	\$35.61	\$34.47	\$34.44	\$34.03	\$33.01	\$33.93	\$36.27	\$35.07	\$28.90	\$28.53		
Weekday	6/4/2009	\$27.71	\$29.14	\$32.03	\$30.27	\$25.94	\$27.75	\$35.89	\$36.28	\$35.12	\$37.46	\$37.78	\$38.56	\$39.68	\$41.56	\$39.13	\$38.95	\$35.26	\$33.91	\$33.57	\$36.18	\$41.16	\$33.25	\$34.65	\$29.05		
Weekday	6/5/2009	\$26.27	\$22.16	\$25.45	\$22.34	\$27.88	\$26.63	\$36.34	\$33.09	\$39.41	\$37.15	\$38.52	\$41.58	\$39.57	\$36.68	\$39.40	\$34.81	\$41.07	\$40.03	\$32.73	\$31.18	\$40.64	\$41.28	\$38.35	\$40.32		
Weekday	6/8/2009	\$42.61	\$29.18	\$27.10	\$27.09	\$25.13	\$28.35	\$27.91	\$33.83	\$33.35	\$34.30	\$35.70	\$38.48	\$41.41	\$42.05	\$41.29	\$39.67	\$39.85	\$40.02	\$33.32	\$32.71	\$33.80	\$30.36	\$30.15	\$27.35		
Weekday	6/9/2009	\$26.24	\$28.53	\$25.97	\$25.02	\$29.36	\$27.40	\$37.17	\$35.46	\$38.80	\$40.51	\$39.18	\$39.21	\$38.09	\$39.08	\$36.13	\$32.98	\$38.54	\$39.15	\$37.59	\$33.59	\$36.53	\$30.44	\$28.12	\$25.31		
Weekday	6/10/2009	\$30.44	\$23.58	\$23.97	\$23.25	\$26.48	\$22.64	\$26.21	\$29.73	\$31.93	\$31.35	\$31.27	\$31.59	\$32.00	\$32.64	\$31.39	\$31.04	\$32.00	\$31.59	\$30.00	\$30.41	\$30.76	\$31.23	\$26.38	\$22.85		
Weekday	6/11/2009	\$14.73	\$22.97	\$30.49	\$23.88	\$24.55	\$24.44	\$27.62	\$30.33	\$32.03	\$35.83	\$35.32	\$34.42	\$34.56	\$34.43	\$32.62	\$31.50	\$31.64	\$32.30	\$30.71	\$29.15	\$33.81	\$30.03	\$25.44	\$22.93		
Weekday	6/12/2009	\$18.35	\$17.16	\$17.16	\$17.16	\$24.28	\$27.42	\$31.66	\$30.53	\$30.34	\$32.54	\$32.13	\$36.73	\$39.53	\$39.02	\$36.31	\$36.94	\$35.95	\$33.54	\$32.36	\$30.15	\$29.63	\$30.36	\$28.57	\$30.14		
Weekday	6/15/2009	\$23.31	\$19.43	\$1.72	\$0.00	\$24.33	\$23.93	\$33.16	\$34.08	\$33.93	\$43.53	\$40.68	\$37.79	\$38.68	\$40.57	\$37.78	\$37.11	\$35.12	\$35.37	\$34.16	\$33.08	\$37.26	\$31.60	\$25.48	\$22.54		
Weekday	6/16/2009	\$20.60	\$27.50	\$38.23	\$26.33	\$21.43	\$21.16	\$27.25	\$37.33	\$36.52	\$34.90	\$35.06	\$35.78	\$37.81	\$39.62	\$37.20	\$38.64	\$37.16	\$32.27	\$35.22	\$32.72	\$36.75	\$32.95	\$24.72	\$22.66		
Weekday	6/17/2009	\$23.50	\$23.08	\$27.70	\$20.66	\$20.79	\$34.31	\$36.42	\$37.75	\$34.44	\$37.95	\$39.05	\$40.91	\$39.95	\$38.15	\$37.23	\$37.17	\$39.57	\$37.73	\$38.48	\$34.91	\$36.62	\$35.15	\$29.34	\$27.50		
Weekday	6/18/2009	\$24.63	\$27.53	\$30.71	\$27.97	\$24.14	\$22.60	\$28.91	\$33.64	\$38.32	\$36.94	\$37.54	\$39.85	\$39.82	\$38.64	\$39.80	\$41.00	\$42.48	\$43.14	\$40.27	\$36.16	\$45.39	\$49.15	\$43.86	\$32.97		
Weekday	6/19/2009	\$26.84	\$26.34	\$26.85	\$28.82	\$28.84	\$26.60	\$34.14	\$40.08	\$47.96	\$48.99	\$51.30	\$47.75	\$47.55	\$51.14	\$44.58	\$47.97	\$40.70	\$39.00	\$37.20	\$34.13	\$34.39	\$43.86	\$37.78	\$37.09		
Weekday	6/22/2009	\$28.13	\$20.36	\$2.36	\$0.00	\$0.00	\$29.92	\$37.48	\$34.55	\$37.33	\$42.10	\$45.30	\$42.06	\$42.00	\$46.83	\$45.81	\$47.33	\$45.09	\$45.86	\$42.65	\$40.94	\$39.58	\$39.86	\$32.51	\$20.80		
Weekday	6/23/2009	\$26.57	\$31.61	\$30.99	\$28.57	\$32.36	\$37.23	\$36.00	\$41.35	\$42.07	\$46.97	\$47.75	\$49.80	\$50.68	\$55.80	\$50.01	\$49.44	\$52.28	\$50.66	\$50.79	\$46.24	\$43.64	\$35.68	\$37.90	\$40.18		
Weekday	6/24/2009	\$35.48	\$39.75	\$32.06	\$29.68	\$30.84	\$33.26	\$28.67	\$31.72	\$31.73	\$33.44	\$36.06	\$41.13	\$39.09	\$38.20	\$37.48	\$36.04	\$34.26	\$34.76	\$34.89	\$34.78	\$34.45	\$34.33	\$29.78	\$27.96		
Weekday	6/25/2009	\$28.04	\$25.47	\$23.16	\$19.59	\$17.24	\$17.36	\$25.36	\$29.04	\$30.82	\$31.55	\$32.41	\$35.21	\$33.83	\$32.43	\$34.20	\$49.13	\$58.99	\$55.39	\$46.30	\$38.29	\$36.56	\$35.84	\$32.56	\$28.80		
Weekday	6/26/2009	\$27.78	\$27.23	\$25.47	\$25.42	\$24.99	\$25.85	\$27.05	\$32.64	\$36.74	\$35.83	\$36.91	\$33.43	\$36.67	\$38.62	\$35.24	\$38.59	\$35.78	\$33.20	\$31.34	\$31.17	\$33.54	\$33.30	\$30.79	\$34.42		
Weekday	6/29/2009	\$30.80	\$28.24	\$21.80	\$21.28	\$21.51	\$30.48	\$28.44	\$40.11	\$37.17	\$45.43	\$57.16	\$61.19	\$58.93	\$44.81	\$55.93	\$55.16	\$184.19	\$100.50	\$34.76	\$32.19	\$44.86	\$40.39	\$36.07	\$34.11		
Weekday	6/30/2009	\$31.49	\$27.75	\$24.18	\$29.29	\$29.60	\$27.81	\$25.10	\$26.09	\$30.07	\$31.42	\$36.59	\$39.94	\$41.62	\$32.26	\$34.26	\$33.25	\$37.45	\$37.71	\$31.61	\$29.82	\$33.15	\$29.48	\$26.27	\$19.81		
Weekday	7/1/2009	\$21.66	\$22.62	\$18.11	\$4.20	\$0.00	\$0.00	\$26.35	\$27.79	\$28.89	\$29.87	\$29.92	\$28.56	\$29.05	\$30.15	\$29.75	\$30.49	\$30.09	\$30.30	\$29.79	\$28.73	\$28.73	\$29.21	\$15.63	\$27.74		
Weekday	7/2/2009	\$26.39	\$25.83	\$18.93	\$23.55	\$27.78	\$29.46	\$23.67	\$27.79	\$30.94	\$29.82	\$31.90	\$36.44	\$35.82	\$36.10	\$30.24	\$31.76	\$30.95	\$34.13	\$33.56	\$31.07	\$30.97	\$28.49	\$25.55	\$28.61		
Weekday	7/6/2009	\$28.65	\$24.89	\$22.42	\$23.04	\$22.40	\$23.42	\$26.25	\$34.66	\$38.52	\$41.44	\$55.24	\$44.23	\$41.19	\$37.01	\$36.72	\$31.51	\$37.93	\$44.82	\$31.56	\$32.14	\$39.39	\$29.81	\$32.90	\$35.83		
Weekday	7/7/2009	\$28.70	\$36.57	\$26.68	\$24.38	\$26.64	\$25.13	\$25.66	\$25.68	\$28.31	\$30.27	\$34.04	\$39.86	\$38.46	\$30.19	\$29.40	\$32.18	\$32.44	\$28.36	\$27.93	\$29.68	\$35.00	\$26.65	\$24.14	\$26.36		
Weekday	7/8/2009	\$23.90	\$26.07	\$24.51	\$19.96	\$7.29	\$24.43	\$18.05	\$26.40	\$30.65	\$30.51	\$31.65	\$35.17	\$34.96	\$28.91	\$28.52	\$29.56	\$34.42	\$28.99	\$28.22	\$27.29	\$27.93	\$27.62	\$26.68	\$26.24		
Weekday	7/9/2009	\$25.72	\$21.54	\$22.63	\$25.80	\$28.19	\$24.43	\$25.09	\$27.89	\$28.77	\$30.45	\$31.70	\$30.34	\$33.38	\$30.19	\$28.88	\$28.73	\$32.10	\$35.48	\$32.78	\$27.54	\$29.23	\$30.30	\$27.28	\$28.24		
Weekday	7/10/2009	\$26.39	\$25.96	\$22.69	\$22.74	\$26.28	\$23.34	\$22.61	\$27.34	\$31.19	\$39.18	\$39.96	\$38.19	\$40.25	\$41.73	\$41.07	\$36.98	\$31.61	\$37.74	\$36.52	\$31.80	\$32.81	\$30.24	\$28.98	\$33.61		
Weekday	7/13/2009	\$25.02	\$19.12	\$14.56	\$0.00	\$0.00	\$23.04	\$24.55	\$29.94	\$32.82	\$34.39	\$36.95	\$38.21	\$35.88	\$37.08	\$36.07	\$35.33	\$35.79	\$30.77	\$35.98	\$31.96	\$32.48	\$34.02	\$28.50	\$33.27		
Weekday	7/14/2009	\$23.01	\$20.61	\$16.95	\$16.88	\$21.10	\$21.11	\$20.81	\$30.44	\$34.07	\$33.96	\$35.09	\$36.99	\$35.94	\$31.22	\$31.42	\$31.23	\$31.31	\$33.26	\$28.17	\$28.19	\$30.92	\$30.49	\$25.86	\$24.83		
Weekday	7/15/2009	\$23.45	\$24.27	\$21.21	\$3.43	\$16.96	\$24.39	\$27.66	\$28.47	\$30.40	\$33.77	\$37.24	\$36.28	\$38.55	\$53.63	\$41.07	\$42.70	\$56.36	\$41.30	\$35.24	\$33.56	\$41.74	\$37.87	\$38.13	\$39.15		
Weekday	7/16/2009	\$31.38	\$35.86	\$36.09	\$29.92	\$32.26	\$30.91	\$27.65	\$27.40	\$34.27	\$40.33	\$45.89	\$46.13	\$52.03	\$50.38	\$53.99	\$49.82	\$49.97	\$50.16	\$44.76	\$39.95	\$53.79	\$40.62	\$34.45	\$28.13		
Weekday	7/17/2009	\$28.35	\$30.18	\$35.62	\$29.08	\$27.04	\$26.06	\$26.37	\$26.84	\$26.90	\$30.62	\$43.39	\$47.76	\$44.12	\$43.95	\$45.83	\$39.83	\$30.98	\$28.80	\$28.97	\$29.27	\$31.60	\$32.11	\$32.07	\$36.92		
Weekday	7/20/2009	\$31.38	\$30.75	\$34.38	\$27.94	\$30.22	\$29.21	\$27.24	\$33.17	\$42.02	\$45.75	\$54.76	\$71.88	\$82.99	\$75.21	\$72.91	\$59.38	\$47.62	\$47.28	\$50.76	\$46.10	\$51.40	\$40.60	\$33.48	\$29.12		
Weekday	7/21/2009	\$29.36	\$29.75	\$29.71	\$28.19	\$29.46	\$36.34	\$39.75	\$41.43	\$50.17	\$47.09	\$47.28	\$53.45	\$48.40	\$45.80	\$43.65	\$36.47	\$43.20	\$47.55	\$35.80	\$29.86	\$34.98	\$28.71	\$26.64	\$27.93		
Weekday	7/22/2009	\$28.55	\$26.63	\$24.69	\$19.64	\$24.75	\$25.04	\$25.67	\$33.61	\$30.50																	

Attachment 3

		Hour																								Attachment 3	
																										Page 2 of 2	
Day Type	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
Weekend/Hol	6/6/2009	\$29.90	\$23.74	\$26.13	\$32.20	\$29.48	\$22.99	\$20.28	\$25.89	\$32.11	\$36.43	\$48.26	\$39.44	\$45.81	\$44.77	\$43.54	\$40.93	\$43.95	\$44.95	\$42.45	\$42.25	\$43.17	\$40.61	\$38.14	\$39.33		
Weekend/Hol	6/7/2009	\$38.89	\$24.62	\$34.05	\$26.46	\$30.06	\$30.00	\$41.16	\$55.88	\$39.33	\$34.82	\$40.34	\$41.12	\$40.00	\$39.06	\$41.58	\$39.48	\$43.52	\$41.17	\$38.89	\$41.84	\$43.99	\$38.61	\$32.70	\$37.04		
Weekend/Hol	6/13/2009	\$31.68	\$26.18	\$23.20	\$22.88	\$23.21	\$22.76	\$19.67	\$20.49	\$28.44	\$33.22	\$31.95	\$32.70	\$33.96	\$34.96	\$33.44	\$35.01	\$32.45	\$32.63	\$31.95	\$30.48	\$34.32	\$31.51	\$31.85	\$34.83		
Weekend/Hol	6/14/2009	\$28.74	\$25.75	\$30.97	\$30.19	\$44.17	\$31.22	\$29.60	\$24.71	\$30.87	\$33.56	\$35.17	\$36.05	\$35.95	\$35.13	\$34.67	\$33.42	\$35.16	\$35.74	\$31.77	\$30.94	\$38.21	\$38.59	\$34.97	\$29.40		
Weekend/Hol	6/20/2009	\$37.27	\$35.61	\$41.42	\$34.88	\$40.92	\$31.91	\$27.35	\$25.91	\$35.55	\$41.03	\$49.26	\$53.11	\$49.06	\$45.59	\$44.01	\$40.60	\$38.37	\$38.70	\$37.34	\$42.52	\$43.34	\$37.15	\$29.53	\$29.49		
Weekend/Hol	6/21/2009	\$31.52	\$27.27	\$25.83	\$26.96	\$31.51	\$33.93	\$22.76	\$25.67	\$24.46	\$29.36	\$33.77	\$37.08	\$39.75	\$37.07	\$35.22	\$33.57	\$33.01	\$34.66	\$34.71	\$33.85	\$40.07	\$38.19	\$27.75	\$26.01		
Weekend/Hol	6/27/2009	\$39.94	\$30.53	\$27.71	\$26.94	\$28.44	\$25.25	\$25.20	\$29.54	\$34.75	\$36.77	\$44.75	\$49.71	\$45.80	\$40.78	\$42.29	\$40.63	\$40.73	\$39.64	\$36.79	\$34.16	\$36.40	\$35.60	\$34.02	\$41.03		
Weekend/Hol	6/28/2009	\$33.72	\$23.61	\$31.08	\$32.30	\$26.59	\$27.11	\$21.22	\$20.57	\$24.71	\$32.15	\$32.30	\$32.64	\$34.16	\$36.08	\$37.06	\$38.68	\$38.35	\$39.38	\$38.74	\$36.83	\$44.56	\$43.07	\$32.56	\$29.96		
Weekend/Hol	7/3/2009	\$36.23	\$26.94	\$22.01	\$18.41	\$20.58	\$20.37	\$18.35	\$21.92	\$34.41	\$36.42	\$40.00	\$38.65	\$35.23	\$44.03	\$57.68	\$42.07	\$32.03	\$42.05	\$47.56	\$40.36	\$48.97	\$48.78	\$49.06	\$42.26		
Weekend/Hol	7/4/2009	\$35.65	\$30.93	\$29.38	\$31.62	\$30.37	\$26.27	\$23.65	\$23.61	\$25.93	\$30.52	\$33.48	\$31.75	\$29.78	\$29.93	\$29.21	\$29.61	\$29.58	\$33.23	\$29.84	\$28.72	\$29.40	\$30.94	\$27.57	\$35.21		
Weekend/Hol	7/5/2009	\$23.52	\$20.29	\$20.91	\$34.94	\$25.86	\$17.88	\$0.00	\$18.39	\$21.36	\$27.41	\$29.45	\$35.76	\$32.11	\$30.05	\$28.54	\$28.74	\$30.98	\$33.44	\$31.62	\$30.06	\$34.36	\$36.97	\$37.02	\$32.46		
Weekend/Hol	7/11/2009	\$28.18	\$23.59	\$24.65	\$22.52	\$25.03	\$22.49	\$19.70	\$25.22	\$34.25	\$34.36	\$34.69	\$35.12	\$30.95	\$31.57	\$34.55	\$30.95	\$28.90	\$27.00	\$33.24	\$30.05	\$36.04	\$28.35	\$28.88	\$31.33		
Weekend/Hol	7/12/2009	\$27.55	\$25.04	\$25.09	\$22.72	\$24.82	\$24.28	\$13.64	\$19.04	\$27.15	\$32.76	\$33.57	\$33.55	\$31.04	\$35.62	\$33.75	\$28.02	\$28.81	\$30.39	\$30.54	\$28.37	\$35.41	\$30.93	\$29.88	\$30.36		
Weekend/Hol	7/18/2009	\$36.33	\$32.41	\$29.07	\$32.15	\$27.13	\$26.18	\$28.04	\$28.32	\$28.30	\$31.73	\$41.06	\$40.93	\$43.49	\$44.46	\$44.65	\$41.96	\$42.03	\$42.75	\$41.14	\$38.91	\$42.54	\$40.77	\$38.09	\$33.72		
Weekend/Hol	7/19/2009	\$35.38	\$27.50	\$27.25	\$28.29	\$27.67	\$26.24	\$28.99	\$27.94	\$32.58	\$32.91																

Unitil Energy Systems, Inc.
Time of Use Pilot Program Pricing

Residential kWh load Off Peak	99,018,890
Residential kWh Load On Peak	20,993,106
Residential kWh Load Critical Peak	3,544,760

Total Residential kWh load	123,556,757
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Percentage of Load Off Peak	80.1%
Percentage of Load On Peak	17.0%
Percentage of Load Critical Peak	2.9%

Max hourly residential kW load	118,902
CPP Adder \$/kw-mo	\$5.00
Distribution Losses	6.468%
Number of Months	3
CPP Adder \$/kw-mo w/losses	\$15.97
Total CPP Adder Revenue	\$1,898,886
Total CPP Adder \$/kWh	\$0.53569

Rate Calculations	<u>Price</u>	<u>Revenue</u>
Assumed Default price at retail	\$0.10000	\$12,355,676
Off Peak Price	\$0.07338	\$7,266,131
On Peak Price	\$0.13003	\$2,729,734
Critical Peak Price	\$0.66572	\$2,359,811
Total		\$12,355,676
Variance		\$0.00

Day Type	Date	Hour												On Peak Period											
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Weekday	6/1/2009	31,509	29,338	28,269	28,504	29,821	35,193	49,349	52,558	47,343	44,667	43,596	42,633	42,250	40,970	40,401	43,233	46,785	51,421	59,026	61,466	61,587	56,409	47,122	36,712
Weekday	6/2/2009	31,005	28,360	27,163	27,034	28,524	33,658	47,742	50,147	45,318	42,431	42,369	41,097	42,065	41,532	42,016	45,878	50,373	56,554	61,144	61,839	64,145	60,745	49,079	39,201
Weekday	6/3/2009	33,580	30,796	29,177	28,583	29,955	34,179	47,323	50,403	46,268	44,400	42,364	42,887	43,161	41,744	41,915	46,134	50,502	53,844	57,798	60,116	61,938	58,221	48,833	38,074
Weekday	6/4/2009	32,424	29,768	28,242	28,552	29,523	34,357	47,597	49,955	45,060	43,747	42,543	41,907	42,067	42,903	42,107	45,789	50,120	53,874	58,079	60,450	63,921	60,131	49,277	38,711
Weekday	6/5/2009	33,189	29,788	28,439	28,239	29,205	33,721	46,421	49,739	46,026	43,958	43,228	43,278	43,106	41,308	43,674	46,244	48,853	52,724	55,009	55,469	57,224	54,433	47,791	38,156
Weekday	6/8/2009	33,715	30,362	29,008	28,173	30,014	34,429	47,333	51,045	48,772	45,540	46,555	47,180	47,075	46,627	46,975	47,948	51,764	58,272	60,642	61,298	63,414	60,137	49,339	39,311
Weekday	6/9/2009	34,123	30,669	29,683	29,103	29,713	34,910	47,512	51,731	48,049	46,307	44,125	46,133	46,464	44,838	44,644	47,665	53,088	61,080	65,408	64,595	63,479	57,145	46,648	37,373
Weekday	6/10/2009	31,824	29,615	27,716	27,104	28,740	34,091	47,980	50,944	46,434	46,326	44,884	43,495	43,679	41,348	41,955	45,338	49,941	55,659	60,046	60,661	61,461	58,024	47,694	37,260
Weekday	6/11/2009	31,544	29,634	28,382	27,922	28,966	33,380	47,029	50,580	47,203	45,191	43,510	44,084	43,730	44,510	42,921	45,810	50,647	56,589	59,389	60,378	61,788	55,899	46,519	38,100
Weekday	6/12/2009	32,558	29,563	28,010	27,490	29,214	33,612	46,400	51,525	50,523	48,374	46,567	44,978	45,389	44,945	44,607	46,927	50,511	51,871	55,322	55,930	58,113	57,281	51,353	42,688
Weekday	6/15/2009	34,077	30,776	29,690	28,835	30,080	34,698	46,497	51,221	47,966	47,271	47,836	48,076	47,401	47,431	47,006	49,824	53,170	61,142	64,278	64,973	64,317	60,125	50,083	39,606
Weekday	6/16/2009	33,691	30,442	29,346	28,386	30,378	34,456	47,820	52,613	48,614	44,401	44,411	44,267	43,952	43,079	44,379	46,095	49,537	54,497	57,807	58,990	61,353	59,322	48,638	38,554
Weekday	6/17/2009	33,904	30,224	28,640	28,043	29,503	34,259	47,649	50,734	47,143	44,434	43,043	43,632	44,079	44,269	43,888	46,497	50,832	54,175	56,681	59,301	62,028	61,960	52,225	40,223
Weekday	6/18/2009	33,805	30,448	28,911	27,871	29,749	33,935	46,267	48,831	46,643	46,574	46,224	46,638	46,265	45,328	45,247	47,780	53,712	59,327	64,898	64,747	63,890	57,690	49,021	38,293
Weekday	6/19/2009	33,330	30,124	28,790	27,948	29,026	33,656	46,931	51,958	50,562	50,358	49,478	50,506	50,220	49,931	49,232	50,985	52,485	56,300	57,044	56,094	55,796	56,628	50,437	41,110
Weekday	6/22/2009	36,067	32,121	30,166	29,660	30,818	35,691	45,555	50,830	50,031	49,208	51,546	51,670	52,200	52,337	51,635	53,408	57,261	64,802	68,064	68,262	65,867	59,598	50,160	40,598
Weekday	6/23/2009	34,555	31,007	30,090	29,360	30,453	34,255	45,081	50,198	47,812	47,087	47,611	49,090	48,568	47,211	47,936	51,801	55,921	62,319	66,462	66,827	65,661	60,811	51,076	41,768
Weekday	6/24/2009	35,329	31,854	30,418	29,473	30,679	34,381	45,714	49,904	49,082	50,793	50,737	46,955	49,884	49,198	50,108	50,661	55,111	58,382	62,840	64,309	65,413	63,647	54,381	43,603
Weekday	6/25/2009	37,543	33,499	31,340	30,888	31,573	34,852	45,719	51,723	52,009	50,589	51,992	51,623	53,012	52,635	52,864	56,073	60,203	64,844	67,164	68,880	69,676	69,582	60,275	50,117
Weekday	6/26/2009	42,503	37,977	35,308	33,851	35,029	38,305	48,103	54,338	56,498	58,989	61,997	63,925	65,608	63,883	62,825	65,975	68,320	71,303	71,055	70,861	70,895	69,705	62,460	52,110
Weekday	6/29/2009	37,274	33,655	32,165	31,901	32,363	36,278	45,740	51,227	51,067	51,612	54,067	54,690	54,988	55,615	55,388	56,326	59,152	64,645	70,374	70,139	69,459	64,886	55,733	45,158
Weekday	6/30/2009	38,652	34,451	32,469	31,034	32,922	35,899	44,629	51,861	51,227	51,019	51,505	52,552	52,128	52,387	51,517	53,134	55,706	61,844	65,286	67,099	66,833	62,715	53,524	43,283
Weekday	7/1/2009	36,584	32,640	31,024	30,299	30,932	34,335	44,154	49,293	50,845	50,760	51,116	50,830	51,569	51,290	50,212	52,516	57,728	64,072	67,344	64,965	63,622	59,467	51,213	41,722
Weekday	7/2/2009	36,082	31,728	30,020	29,932	31,168	33,883	43,469	50,388	52,323	54,087	54,010	54,855	53,556	51,963	49,759	53,131	56,411	62,242	65,258	64,401	62,706	57,837	51,437	41,278
Weekday	7/6/2009	38,409	33,353	31,774	31,524	31,582	33,766	43,437	49,175	52,271	53,397	54,422	52,593	53,608	53,091	52,104	55,239	61,344	65,934	69,831	69,719	70,142	66,121	57,006	45,519
Weekday	7/7/2009	38,722	34,668	32,810	31,690	32,709	35,111	45,029	50,609	50,210	50,518	51,944	51,711	52,853	51,447	50,761	52,084	57,753	64,518	67,042	65,681	65,049	61,454	52,384	42,500
Weekday	7/8/2009	36,735	32,088	30,221	29,692	31,268	33,314	43,081	49,419	50,085	49,354	50,800	50,825	50,620	50,236	48,540	49,597	55,116	61,589	65,941	64,842	64,634	60,379	51,700	41,129
Weekday	7/9/2009	34,740	32,135	30,446	29,090	30,761	32,853	42,788	47,714	49,080	47,582	46,598	46,452	47,420	44,947	45,457	46,010	50,810	56,037	57,595	58,805	61,052	61,557	53,519	42,818
Weekday	7/10/2009	36,177	32,005	29,801	29,122	30,640	33,103	42,885	49,556	50,829	50,956	49,966	49,595	49,602	49,228	49,180	50,877	53,456	58,106	58,888	57,673	60,544	61,441	54,582	45,976
Weekday	7/13/2009	41,511	36,384	34,484	33,615	34,253	36,285	46,100	49,932	53,441	54,202	54,452	54,421	54,447	53,924	53,184	53,742	58,068	64,256	66,407	66,725	67,763	65,627	55,682	44,939
Weekday	7/14/2009	37,929	33,631	32,619	31,966	32,821	35,108	44,701	51,018	50,826	48,312	50,261	48,971	50,430	49,992	49,443	51,733	55,759	59,244	63,603	63,009	63,679	61,730	51,976	42,230
Weekday	7/15/2009	35,726	32,634	31,115	30,822	31,519	33,947	44,018	50,743	52,348	47,758	49,431	49,149	50,273	50,866	50,975	53,688	57,376	63,998	66,257	66,762	67,879	66,157	57,837	46,658
Weekday	7/16/2009	40,195	35,926	33,720	33,487	33,798	36,761	44,981	51,549	51,215	51,665	52,133	52,347	53,857	56,449	55,600	58,618	62,880	69,224	73,262	74,879	77,762	75,180	66,240	54,033
Weekday	7/17/2009	46,593	42,349	39,043	37,179	37,863	40,475	48,362	55,627	59,722	60,891	64,177	64,968	66,552	69,413	70,516	74,257	76,957	78,580	78,414	76,563	75,059	70,875	62,641	52,836
Weekday	7/20/2009	43,187	38,938	36,231	35,471</																				

Day Type	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Weekend/Hol	6/6/2009	32,502	29,893	28,456	27,845	28,333	29,393	37,502	45,767	52,574	55,097	54,956	53,788	53,093	51,207	50,108	50,655	54,320	56,919	56,249	57,616	56,969	56,179	49,857	41,719
Weekend/Hol	6/7/2009	35,693	31,867	30,379	29,257	29,185	29,042	34,413	40,916	48,761	54,940	56,288	57,488	57,188	55,917	56,192	57,635	61,312	67,228	69,414	69,311	66,222	60,566	49,301	39,347
Weekend/Hol	6/13/2009	36,308	32,680	30,451	29,340	29,446	30,054	36,954	46,167	54,279	56,856	57,630	57,654	58,798	57,531	55,980	56,646	58,702	61,151	60,810	62,142	61,773	59,142	51,687	44,323
Weekend/Hol	6/14/2009	38,266	34,229	31,940	30,627	30,637	30,644	34,973	41,798	50,512	57,729	62,232	63,330	64,550	63,030	60,970	61,233	62,267	67,509	69,217	68,043	67,660	61,642	51,735	40,453
Weekend/Hol	6/20/2009	35,331	32,453	30,524	28,982	29,591	30,391	37,335	46,914	53,445	57,300	57,407	57,378	58,835	58,099	57,856	56,809	59,776	61,781	62,521	62,026	61,461	59,304	51,770	43,925
Weekend/Hol	6/21/2009	37,881	34,196	31,366	30,019	30,004	30,639	35,674	44,030	51,261	57,575	61,472	63,468	63,198	60,825	57,805	60,431	63,290	67,197	66,485	66,989	66,877	63,477	52,857	42,752
Weekend/Hol	6/27/2009	45,257	40,217	37,169	35,552	35,173	34,880	41,527	49,810	57,819	63,710	63,995	65,668	65,897	67,199	66,872	66,791	66,941	69,292	69,177	68,375	65,665	62,811	55,964	48,243
Weekend/Hol	6/28/2009	41,728	37,348	34,496	33,361	33,164	33,291	38,370	43,617	51,446	56,900	61,245	64,802	65,390	65,418	63,910	63,630	66,714	70,953	72,829	71,200	67,614	63,023	53,318	43,324
Weekend/Hol	7/3/2009	35,657	32,574	30,637	29,788	30,297	31,786	38,205	44,812	49,473	55,343	57,490	57,343	57,569	56,113	56,100	57,374	59,516	63,395	62,903	62,279	62,918	60,503	55,143	47,375
Weekend/Hol	7/4/2009	40,872	35,354	33,396	31,520	31,627	31,209	36,320	43,593	52,039	57,502	61,289	63,125	63,217	60,445	59,691	58,930	59,038	59,938	59,324	58,091	55,891	53,614	51,101	45,626
Weekend/Hol	7/5/2009	39,323	34,482	31,742	30,250	30,231	29,974	34,946	39,961	47,957	53,764	57,306	57,964	58,661	56,571	56,837	57,887	61,662	66,093	68,146	66,897	65,330	63,468	55,194	44,785
Weekend/Hol	7/11/2009	39,166	34,842	32,554	31,248	31,184	30,976	37,099	44,722	51,683	57,552	59,226	59,558	60,470	59,837	59,240	58,895	60,506	62,434	63,928	62,653	63,505	61,020	54,818	46,302
Weekend/Hol	7/12/2009	40,403	35,561	33,827	32,583	32,055	32,385	36,663	42,621	51,058	57,413	62,179	64,747	64,041	63,841	63,569	64,543	68,355	72,448	73,533	73,444	73,000	71,151	60,357	48,459
Weekend/Hol	7/18/2009	46,021	42,190	39,391	37,775	37,203	37,178	42,348	49,456	58,152	64,554	66,970	67,777	68,310	68,713	72,668	74,600	77,409	79,812	79,268	77,332	74,847	71,735	62,608	53,875
Weekend/Hol	7/19/2009	46,682	41,559	38,130	35,802	34,925	34,865	40,587	48,468	56,653	61,286	65,184	65,786	66,192	65,821	66,897	67,954	71,127	75,144	77,008	75,196	75,894	73,986	62,564	51,325
Weekend/Hol	7/25/2009	38,783	34,150	31,986	31,207	31,984	33,193	38,035	46,007	53,975	58,941	61,229	63,389	63,418	65,769	66,808	69,321	70,298	73,929	74,599	72,228	72,716	70,755	62,763	53,864
Weekend/Hol	7/26/2009	46,646	42,317	38,907	37,180	37,053	37,025	41,362	46,987	55,998	62,051	66,910	71,585	77,232	79,474	83,069	85,207	88,051	92,062	92,435	90,046	89,804	85,270	73,977	62,039
Weekend/Hol	8/1/2009	44,620	40,434	38,271	36,645	36,473	36,308	41,650	50,483	58,884	65,056	67,930	70,720	73,204	74,168	74,953	78,409	82,086	84,167	83,803	80,540	80,070	75,275	67,342	58,496
Weekend/Hol	8/2/2009	51,641	45,749	42,239	39,720	38,957	37,577	41,960	47,952	55,973	61,995	66,476	67,756	69,777	70,379	70,268	70,708	71,974	77,676	78,990	78,740	79,907	74,323	63,998	54,083
Weekend/Hol	8/8/2009	40,730	36,873	34,717	33,597	32,665	33,536	37,935	45,624	52,390	56,096	55,721	55,511	56,888	56,145	56,227	57,022	59,006	61,570	62,685	60,373	62,461	58,439	51,649	44,273
Weekend/Hol	8/9/2009	38,666	34,965	33,024	32,118	31,693	31,710	35,469	41,327	49,864	54,986	56,957	58,354	59,318	59,953	60,054	61,979	64,180	69,508	71,503	70,137	69,747	63,890	55,359	46,199
Weekend/Hol	8/15/2009	50,795	45,176	41,815	39,963	39,421	39,591	42,790	52,354	62,622	70,326	77,716	83,671	88,834	89,690	91,282	93,539	96,800	99,483	96,642	93,366	94,149	86,755	77,216	65,813
Weekend/Hol	8/16/2009	56,874	51,095	47,787	45,808	43,849	43,629	45,928	55,081	66,710	77,033	84,616	91,799	97,178	99,658	102,146	104,916	108,055	110,006	109,739	105,444	104,994	95,540	82,445	69,997
Weekend/Hol	8/22/2009	62,305	57,958	53,985	51,452	51,075	51,226	54,499	64,702	75,991	83,107	88,834	94,893	92,931	90,736	90,746	84,911	87,458	91,882	92,227	89,948	90,617	84,624	75,322	66,512
Weekend/Hol	8/23/2009	59,695	54,440	50,498	48,827	47,537	48,009	50,568	57,648	68,123	78,829	86,651	92,162	98,177	100,336	102,473	104,056	104,988	107,701	106,796	103,247	102,343	93,725	81,395	68,203
Weekend/Hol	8/29/2009	37,375	33,906	32,162	30,975	30,698	31,459	34,318	41,717	51,792	58,287	61,267	62,560	62,429	62,338	60,386	57,782	59,388	62,528	62,559	61,621	59,375	54,985	48,488	40,471
Weekend/Hol	8/30/2009	35,053	31,693	29,741	28,958	28,822	29,466	32,544	40,447	48,732	54,692	57,173	57,643	57,504	56,369	56,709	58,676	60,981	66,223	70,286	72,279	72,150	62,944	51,725	42,215

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RESIDENTIAL DEFAULT SERVICE TOU/CPP PILOT SCHEDULE DS-P

PURPOSE

This Schedule is for the purpose of implementing Time of Use and Critical Peak Period Default Service Rates through a Pilot Program.

AVAILABILITY

Service is available under this Schedule for residential customers on rate Schedule D, Domestic Delivery Service who have central air conditioning and who choose to participate in this Pilot Program and are not receiving Generation Service from a Competitive Supplier.

DEFAULT SERVICE TOU/CPP PILOT CHARGES – MONTHLY

The Charges for Default Service under this Schedule are shown below:

Default Service Charges*:

Off-Peak kWh	\$0.07338 per kWh
On-Peak kWh	\$0.13003 per kWh
Critical Peak kWh	\$0.66572 per kWh

* Charges include the Fixed Renewable Portfolio Standards Charge of \$0.xxxxxx per kWh effective May 1, 2010.

For the purposes of billing under the DS-P rate, "On-Peak" is defined to be between the hours of 12:00 P.M. and 6:00 P.M. (local time) for all non-holiday weekdays, Monday through Friday. "Off-Peak" is defined to be between the hours of 6:00 P.M. and 12:00 A.M. (local time) and between the hours of 12:00 A.M. and 12:00 P.M. (local time) during non-holiday weekdays and all-day for weekends, Saturday and Sunday, and all-day for official Federal and New Hampshire holidays that occur on a weekday. "Critical Peak" is defined to be between the hours of 12:00 P.M. and 6:00 P.M. (local time) for non-holiday weekdays, Monday through Friday, on those dates which are initiated by the Company. A minimum of 2 and a maximum of 8 critical peak day events will be called during the term of this Pilot.

CRITICAL PEAK DAY NOTIFICATION

Customers will be notified of when a Critical Peak Day will occur through a variety of methods which may include the internet notification, voice messages, or text messages. Notification will be given by 3:00 P.M. of the day preceding the event.

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Treasurer

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RESIDENTIAL DEFAULT SERVICE TOU/CPP PILOT
SCHEDULE DS-P (continued)

TERM OF CONTRACT

The term of contract under this Schedule shall be for the three month period June 1 to August 31, 2010. Upon completion of the program, Customers will return to the Residential Fixed or Variable Default Service Charges, whichever the Customer received prior to participation in the Pilot.

DEFAULT SERVICE TERMS AND CONDITIONS

The Company's Default Service Tariff, Schedule DS, in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this Schedule.

TERMS AND CONDITIONS

The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this Schedule.

COST RECOVERY

The incremental costs of the design, implementation, and analysis and reporting of the Residential Default Service TOU/CPP Pilot program shall be recovered in the Company's Non-G1 Default Service Charge over one year, commencing with the Default Service rate period beginning on November 1, 2010. Cost information will be filed 60 days in advance. Incremental costs shall include such items as consultant costs, contractor costs, external programmer costs and equipment costs that are directly related to the Residential Default Service TOU/CPP Pilot program. Costs associated with existing internal resources shall not be considered incremental.

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Treasurer