

Unitil Energy Systems, Inc.
Rate Design Calculations

(1)

ORIGINAL			
N.R.P.U.C. Case No. <u>DE 14-063</u>			
Exhibit No. <u># 2B</u>			
Witness <u>Panel 1</u>			
(2)	(3)	(4)	(5)
Step 3	Step 4	Step 4	FROM FILE

Schedule 3 - Revised
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	Billing Units	Adjustment Rates May 1, 2013	Adjustment Rates May 1, 2014	Adjustment Revenue May 1, 2014	Percent Change
Residential - D					
Test Year Consumers	763,694	\$10.27	\$10.27	\$7,843,138	
First 250 kWh	172,809,013	\$0.03239	\$0.03427	\$5,922,361	
Excess kWh	307,829,586	\$0.03739	\$0.03927	\$12,088,817	
Total Design Revenue				\$25,854,316	3.63%
Small General Service - G2 kWh					
Test Year Consumers	6,691	\$13.52	\$13.88	\$92,871	
Annual kWh	774,710	\$0.03114	\$0.03196	\$24,763	
Total Design Revenue				\$117,635	2.66%
Small General Service - G2 QR WH / SH					
Test Year Consumers	3,831	\$6.06	\$6.22	\$23,829	
Annual kWh	6,204,726	\$0.02980	\$0.03060	\$189,847	
Total Design Revenue				\$213,676	2.66%
Small General Service - G2 Demand					
Test Year Consumers	118,727	\$17.85	\$18.32	\$2,175,073	
Demand kW	1,301,458	\$10.00	\$10.26	\$13,354,125	
Annual kWh	333,296,033	\$0.00000	\$0.00000	\$0	
Total Design Revenue				\$15,529,198	2.65%
G2 Demand - kW Transformer Ownership Discount					
Test Year kW	50,700	(\$0.39)	(\$0.39)	-\$19,773	
Total Design Revenue				-\$19,773	0.00%
Subtotal G2 Demand inc. Transformer Ownership Discount					
Total Design Revenue				\$15,509,425	2.66%
Large General Service - G1					
Test Year Consumers Secondary	1,382	\$94.22	\$96.72	\$133,667	
Test Year Consumers Primary	432	\$55.84	\$57.32	\$24,762	
Demand kVA	989,158	\$6.75	\$6.92	\$6,848,297	
Annual kWh	347,650,754	\$0.00000	\$0.00000	\$0	
Total Design Revenue				\$7,006,726	2.60%
G1 - kVA Transformer Ownership Discount					
Test Year kVA	412,729	(\$0.39)	(\$0.39)	-\$160,964	
Total Design Revenue				-\$160,964	0.00%
Subtotal G1 inc. Transformer Ownership Discount					
Total Design Revenue				\$6,845,761	2.66%

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	(1)	(2)	(3)	(4)	(5)
		Step 3 Adjustment Rates May 1, 2013	Step 4 Adjustment Rates May 1, 2014	Step 4 Adjustment Revenue May 1, 2014	Percent Change
	Billing Units				
Outdoor Lighting - OL					
Delivery charge - Annual kWh	8,988,739	\$0.00000	\$0.00000	\$0	
Fixture revenue					
100W Mercury Vapor Street	21,269	\$10.94	\$11.23	\$238,816	
175W Mercury Vapor Street	1,155	\$13.24	\$13.59	\$15,701	
250W Mercury Vapor Street	1,415	\$15.20	\$15.60	\$22,080	
400W Mercury Vapor Street	3,578	\$18.37	\$18.86	\$67,475	
1000W Mercury Vapor Street	60	\$37.88	\$38.88	\$2,333	
250W Mercury Vapor Flood	1,085	\$16.28	\$16.71	\$18,136	
400W Mercury Vapor Flood	2,344	\$19.77	\$20.29	\$47,562	
1000W Mercury Vapor Flood	783	\$33.69	\$34.58	\$27,080	
100W Mercury Vapor Power Bracket	6,406	\$11.06	\$11.35	\$72,711	
175W Mercury Vapor Power Bracket	1,072	\$12.42	\$12.75	\$13,668	
50W Sodium Vapor Street	37,978	\$11.16	\$11.46	\$435,287	
100W Sodium Vapor Street	1,067	\$12.74	\$13.08	\$13,960	
150W Sodium Vapor Street	4,510	\$12.80	\$13.14	\$59,255	
250W Sodium Vapor Street	11,866	\$16.40	\$16.84	\$199,787	
400W Sodium Vapor Street	3,084	\$21.04	\$21.60	\$66,619	
1000W Sodium Vapor Street	1,685	\$37.39	\$38.38	\$64,675	
150W Sodium Vapor Flood	2,834	\$14.97	\$15.37	\$43,561	
250W Sodium Vapor Flood	3,397	\$17.92	\$18.39	\$62,477	
400W Sodium Vapor Flood	4,910	\$20.54	\$21.09	\$103,555	
1000W Sodium Vapor Flood	3,519	\$37.72	\$38.73	\$136,281	
50W Sodium Vapor Power Bracket	1,153	\$10.22	\$10.50	\$12,101	
100W Sodium Vapor Power Bracket	649	\$11.65	\$11.96	\$7,763	
175W Metal Halide Street	0	\$17.12	\$17.57	\$0	
250W Metal Halide Street	0	\$18.74	\$19.24	\$0	
400W Metal Halide Street	0	\$19.48	\$20.00	\$0	
175W Metal Halide Flood	0	\$19.99	\$20.52	\$0	
250W Metal Halide Flood	0	\$21.70	\$22.28	\$0	
400W Metal Halide Flood	0	\$21.75	\$22.32	\$0	
175W Metal Halide Power Bracket	0	\$15.93	\$16.35	\$0	
250W Metal Halide Power Bracket	0	\$17.02	\$17.47	\$0	
400W Metal Halide Power Bracket	0	\$18.29	\$18.78	\$0	
Total Design Revenue				\$1,730,883	2.66%
Total Design Revenue				\$50,271,696	
Total Billed kWh	1,177,553,561				
Total Billed kW/kVA	2,290,616				
Step Adjustments				\$1,537,194	
Overall Percentage Change					3.15%
Residential Step Adjustment Percentage Increase over prior year (115% of overall)					3.63%
Non-residential Step Adjustment Percentage Increase					2.66%