

UNITIL ENERGY SYSTEMS, INC.

**DIRECT TESTIMONY OF
LINDA S. MCNAMARA**

New Hampshire Public Utilities Commission

Docket No. DE 10-028

June 11, 2010

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Schedule LSM-2: G1 Class Retail Rate Calculation – Power Supply Charge

Schedule LSM-3: G1 Class Retail Rate Calculation – Renewable Portfolio Standard
Charge

Schedule LSM-4: Bill Impacts

1 **I. INTRODUCTION**

2 **Q. Please state your name and business address.**

3 A. My name is Linda S. McNamara. My business address is 6 Liberty Lane West,
4 Hampton, New Hampshire 03842.

5

6 **Q. For whom do you work and in what capacity?**

7 A. I am a Senior Regulatory Analyst I at Unitil Service Corp. ("USC"), which
8 provides centralized management and administrative services to all Unitil
9 Corporation's affiliates including Unitil Energy Systems, Inc. ("UES").

10

11 **Q. Please describe your business and educational background.**

12 A. In 1994 I graduated *cum laude* from the University of New Hampshire with a
13 Bachelor of Science Degree in Mathematics. Since joining USC in June 1994, I
14 have been responsible for the preparation of various regulatory filings, including
15 changes to the default service charges, price analysis, and tariff changes.

16

17 **Q. Have you previously testified before the New Hampshire Public Utilities**
18 **Commission ("Commission")?**

19 A. Yes.

20

21 **II. PURPOSE OF TESTIMONY**

22 **Q. What is the purpose of your testimony in this proceeding?**

1 A. The purpose of my testimony is to present and explain the proposed changes to
2 UES' G1 Large General Service Class Default Service Charge ("DSC") effective
3 August 1, 2010, as reflected in the redline tariff provided as Schedule LSM-1.
4

5 **III. RETAIL RATE CALCULATIONS**

6 **Q. What is the proposed G1 Class DSC?**

7 A. Schedule LSM-1, Page 1, shows the proposed G1 Variable DSC of \$0.07448 per
8 kWh in August 2010, \$0.06352 per kWh in September 2010, and \$0.06318 per
9 kWh in October 2010. There is no fixed option DSC for the G1 class.
10

11 The proposed DSC are comprised of two components, as shown on Schedule
12 LSM-1, Page 1: A Power Supply Charge and a Renewable Portfolio Standard
13 ("RPS") Charge.
14

15 **Q. What is the proposed Power Supply Charge and RPS Charge?**

16 A. Schedule LSM-1, Page 1, shows the proposed G1 Variable Power Supply Charges
17 of \$0.07220 per kWh in August 2010, \$0.06124 per kWh in September 2010, and
18 \$0.06090 per kWh in October 2010.
19

20 Also shown on Schedule LSM-1, Page 1, is the proposed G1 Variable RPS
21 Charge of \$0.00228 per kWh in August, September, and October 2010. As stated
22 above, the total proposed default service charges are \$0.07448, \$0.06352, and

1 \$0.06318 per kWh in August, September, and October 2010, respectively, which
2 are the sum of the Power Supply and the RPS Charges for each month.

3
4 **Q. How do the G1 DSC compare to the current rate?**

5 A. The current DSC, based on a simple three-month average, is \$0.07066 per kWh.
6 The proposed rate, based on a simple three-month average, is \$0.06706 per kWh.
7 This is a decrease of \$0.00360 per kWh, on average, from the current rate. The
8 decrease reflects current market prices.

9
10 **Q. Please describe the calculation of the G1 class DSC.**

11 A. The rate calculations for the Variable Power Supply Charges are provided on
12 Schedule LSM-2, Page 1. The rate calculations for the Variable RPS Charges are
13 provided on Schedule LSM-3, Page 1. Both charges are calculated in the same
14 manner.

15
16 The Variable Charge is calculated by dividing the costs for each month, including
17 a partial reconciliation of costs and revenues through January 31, 2010¹, by the

¹ In its March 12, 2010 filing, UES provided the G1 Class reconciliation balance as of January 31, 2010, as adjusted, for both the Power Supply Charge and the RPS Charge. UES apportioned the Power Supply Charge balance of (\$32,250) over the twelve month period May 2010 through April 2011, based on kWh, as follows: (\$8,550) in May-July 2010, (\$8,504) in August-October 2010, (\$7,612) in November 2010-January 2011, and (\$7,583) in February-April

1 estimated G1 kWh purchases for the corresponding month. An estimated loss
2 factor of 4.591% is then added to arrive at the proposed retail Variable Charges.

3

4 **Q. Have you provided support for the total forecast costs shown on Page 1,**
5 **line 2 of Schedule LSM-2?**

6 A. The details of forecasted costs included in the Power Supply Charge for the
7 period August through October 2010 are provided on Schedule LSM-2, Page
8 2. Line items for the various costs included in default service are shown and
9 include: Total G1 Class DS Supplier Charges, GIS Support Payments, Supply
10 Related Working Capital, Provision for Uncollected Accounts, Internal
11 Company Administrative Costs, Legal Charges, and Consulting Outside
12 Service Charges.

13

14 **Q. Have you provided support for the total forecast costs shown on Page 1,**
15 **line 2 of Schedule LSM-3?**

2011. As shown on Schedule LSM-2, Page 1, the Power Supply Charge reconciliation amount used in this filing is (\$8,504). UES apportioned the RPS Charge balance of \$49,175 over the twelve month period May 2010 through April 2011, based on kWh, as follows: \$13,038 in May-July 2010, \$12,967 in August-October 2010, \$11,608 in November 2010-January 2011, and \$11,563 in February-April 2011. As shown on Schedule LSM-3, Page 1, the RPS Charge reconciliation amount used in this filing is \$12,967.

1 A. The details of forecasted costs included in the RPS Charge for the period
2 August through October 2010 are provided on Schedule LSM-3, Page 2.
3 Costs include Renewable Energy Credits (“RECs”) and the associated
4 Working Capital.

5
6 **Q. How is working capital calculated?**

7 A. Working capital included in the Power Supply Charge equals the sum of
8 working capital for Total G1 Class DS Supplier Charges plus GIS Support
9 Payments, as shown on Schedule LSM-2, Page 2. It is calculated by
10 multiplying the product of Total G1 Class DS Supplier Charges plus GIS
11 Support Payments and the number of days lag divided by 365 days (i.e. the
12 working capital requirement) by the monthly prime rate.

13
14 The calculation of working capital for RECs is included in the RPS Charge
15 and is shown on Schedule LSM-3, Page 2. It is calculated by multiplying the
16 product of RECs and the number of days lead divided by 365 days (i.e. the
17 working capital requirement) by the monthly prime rate.

18
19 The calculation of working capital included in the Power Supply Charge and
20 the RPS Charge both rely on the results of the 2009 Default Service and
21 Renewable Energy Credits Lead Lag Study. The G1 class Power Supply

1 Charge working capital calculation uses 13.72 days and the G1 class RPS

2 Charge working capital calculation uses (297.66) days.

3

4 **IV. BILL IMPACTS**

5 **Q. Have you included any bill impacts associated with the proposed rate**
6 **changes?**

7 A. Schedule LSM-4 provides typical bill impacts as a result of changes to the G1
8 Class DSC. Impacts presented on Schedule LSM-4 isolate the impact on typical
9 bills due to the proposed change in the DSC. Excluded from these comparisons
10 are the proposed temporary rates filed in DE 10-055 for effect July 1, as well as
11 the annual change to UES' Stranded Cost Charge and External Delivery Charge
12 which UES expects to file on June 17 for effect August 1.

13

14 Page 1 provides a table comparing existing rates to the proposed rates for the G1
15 class, as well as the impact on a G1 class typical bill. Page 2 of Schedule LSM-4
16 provides the typical bill impacts for the G1 class for a range of usage levels,
17 comparing proposed rates to current rates. As shown, G1 class customers who do
18 not choose a competitive supplier will see decreases of approximately 3.3 percent
19 depending upon usage. These impact analyses are based upon the simple three-
20 month average DSC. Page 3 of Schedule LSM-4 is a comparison of the proposed
21 rates to rates in effect during the same period last year. Similar to Page 2, it
22 provides the typical bill impacts for the G1 class for a range of usage levels and

1 the DSC used is based upon the simple three-month average. As shown, G1 class
2 customers who do not choose a competitive supplier will see decreases ranging
3 from 3.8 to 4.8 percent, depending on usage, compared to last year. This decrease
4 is primarily due to a change in the reconciliation balance.

5

6

7 **V. CONCLUSION**

8 **Q. Does that conclude your testimony?**

9 **A. Yes, it does.**

CALCULATION OF THE DEFAULT SERVICE CHARGE

(R)

G1 Class Default Service:	<u>May-10</u>	<u>Jun-10</u>	<u>Jul-10</u>	<u>Total</u>	<u>Aug-10</u>	<u>Sep-10</u>	<u>Oct-10</u>	<u>Total</u>
<i>Power Supply Charge</i>	As shown on Schedule LSM-2, Page 1							
1 Reconciliation	(\$2,830)	(\$2,543)	(\$3,178)	(\$8,550)	(\$2,944)	(\$2,837)	(\$2,723)	(\$8,504)
2 Total Costs	<u>\$752,196</u>	<u>\$652,785</u>	<u>\$843,245</u>	<u>\$2,248,225</u>	<u>\$817,627</u>	<u>\$668,912</u>	<u>\$638,455</u>	<u>\$2,124,994</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$749,366	\$650,242	\$840,067	\$2,239,675	\$814,683	\$666,075	\$635,732	\$2,116,490
4 kWh Purchases	<u>11,344,763</u>	<u>10,194,853</u>	<u>12,739,542</u>	34,279,157	<u>11,801,216</u>	<u>11,375,729</u>	<u>10,917,662</u>	34,094,607
5 Total, Before Losses (L.3 / L.4)	\$0.06605	\$0.06378	\$0.06594		\$0.06903	\$0.05855	\$0.05823	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>		<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.06909	\$0.06671	\$0.06897		\$0.07220	\$0.06124	\$0.06090	
<i>Renewable Portfolio Standard (RPS) Charge</i>	As shown on Schedule LSM-3, Page 1							
8 Reconciliation	\$4,315	\$3,877	\$4,845	\$13,038	\$4,488	\$4,327	\$4,152	\$12,967
9 Total Costs	<u>\$21,720</u>	<u>\$19,519</u>	<u>\$24,391</u>	<u>\$65,630</u>	<u>\$21,196</u>	<u>\$20,432</u>	<u>\$19,609</u>	<u>\$61,237</u>
10 Reconciliation plus Total Costs (L.8 + L.9)	\$26,035	\$23,396	\$29,236	\$78,668	\$25,685	\$24,759	\$23,762	\$74,205
11 kWh Purchases	<u>11,344,763</u>	<u>10,194,853</u>	<u>12,739,542</u>	34,279,157	<u>11,801,216</u>	<u>11,375,729</u>	<u>10,917,662</u>	34,094,607
12 Total, Before Losses (L.10 / L.11)	\$0.00229	\$0.00229	\$0.00229		\$0.00218	\$0.00218	\$0.00218	
13 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>		<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
14 Total Retail Rate - Variable RPS Charge (L.12 * (1+L.13))	\$0.00240	\$0.00240	\$0.00240		\$0.00228	\$0.00228	\$0.00228	
15 Total Retail Rate - Variable Default Service Charge (L.7 + L.14)	\$0.07149	\$0.06911	\$0.07137		\$0.07448	\$0.06352	\$0.06318	

Authorized by NHPUC Order No. 25,082 in Case No. DE 10-028, dated ~~March~~ 19, 2010

Unitil Energy Systems, Inc.
Calculation of G1 Large General Service Class Default Service Power Supply Charge

Schedule LSM-2
Page 1 of 2

	<u>Aug-10</u> <u>Estimated</u>	<u>Sep-10</u> <u>Estimated</u>	<u>Oct-10</u> <u>Estimated</u>	<u>Total</u>
1 Reconciliation (1)	(\$2,944)	(\$2,837)	(\$2,723)	(\$8,504)
2 Total Costs (Page 2)	<u>\$817,627</u>	<u>\$668,912</u>	<u>\$638,455</u>	<u>\$2,124,994</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$814,683	\$666,075	\$635,732	\$2,116,490
4 kWh Purchases	<u>11,801,216</u>	<u>11,375,729</u>	<u>10,917,662</u>	34,094,607
5 Total, Before Losses (L.3 / L.4)	\$0.06903	\$0.05855	\$0.05823	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.07220	\$0.06124	\$0.06090	

(1) As filed in UES' March 12, 2010 Default Service filing. Power Supply Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-July 2010, August-October 2010, November 2010-January 2011, and February-April 2011) and then to each month on equal per kWh basis.

Total Power Supply Charge reconciliation for May 1, 2010-April 30, 2011	(\$32,250)
Reconciliation amount for May-July 2010	(\$8,550)
Reconciliation amount for August-October 2010	(\$8,504)
Reconciliation amount for November 2010-January 2011	(\$7,612)
Reconciliation amount for February-April 2011	<u>(\$7,583)</u>
Total	(\$32,250)

Redacted

Unitil Energy Systems, Inc.
Itemized Costs for G1 Class Default Service Power Supply Charge

Schedule LSM-2
Page 2 of 2

<div> <div>Calculation of Working Capital</div> <div>Supplier Charges and GIS Support Payments</div> </div>											
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
	Total G1 Class DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365	Working Capital Requirement ((a+b)*c)	Prime Rate	Supply Related Working Capital (d * e)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Total Costs (sum a + b + f + g + h + i + j)
Aug-10	Redacted	\$101	3.76%	Redacted	3.25%	Redacted	Redacted	\$3,177	\$0	\$0	\$817,627
Sep-10	Redacted	\$97	3.76%	Redacted	3.25%	Redacted	Redacted	\$3,177	\$0	\$0	\$668,912
Oct-10	Redacted	<u>\$93</u>	3.76%	Redacted	3.25%	Redacted	Redacted	<u>\$3,177</u>	<u>\$0</u>	<u>\$0</u>	<u>\$638,455</u>
Total	Redacted	\$291		Redacted		Redacted	Redacted	\$9,530	\$0	\$0	\$2,124,994

(1) Estimates based on monthly average wholesale rate times estimated monthly purchases.

Unitil Energy Systems, Inc.
Calculation of G1 Class Default Service Renewable Portfolio Standard (RPS) Charge

Schedule LSM-3
Page 1 of 2

	<u>Aug-10 Estimated</u>	<u>Sep-10 Estimated</u>	<u>Oct-10 Estimated</u>	<u>Total</u>
1 Reconciliation (1)	\$4,488	\$4,327	\$4,152	\$12,967
2 Total Costs (Page 2)	<u>\$21,196</u>	<u>\$20,432</u>	<u>\$19,609</u>	<u>\$61,237</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$25,685	\$24,759	\$23,762	\$74,205
4 kWh Purchases	<u>11,801,216</u>	<u>11,375,729</u>	<u>10,917,662</u>	34,094,607
5 Total, Before Losses (L.3 / L.4)	\$0.00218	\$0.00218	\$0.00218	
6 Losses	<u>4.591%</u>	<u>4.591%</u>	<u>4.591%</u>	
7 Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	\$0.00228	\$0.00228	\$0.00228	

(1) As filed in UES' March 12, 2010 Default Service filing. RPS Charge balance as of January 31, 2010, as adjusted, allocated between rate periods (May-July 2010, August-October 2010, November 2010-January 2011, and February-April 2011) and then to each month on equal per kWh basis.

Total RPS Charge reconciliation for May 1, 2010-April 30, 2011	\$49,175
Reconciliation amount for May-July 2010	\$13,038
Reconciliation amount for August-October 2010	\$12,967
Reconciliation amount for November 2010-January 2011	\$11,608
Reconciliation amount for February-April 2011	<u>\$11,563</u>
Total	\$49,175

		<i>Calculation of Working Capital</i>				
(a)		(b)	(c)	(d)	(e)	(f)
Renewable Energy Credits		Number of	Working		Supply Related Working	
(1)		Days of Lag /	Capital	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
		365	Requirement			
			(a*b)			
Aug-10	\$21,773	(81.55%)	(\$17,756)	3.25%	(\$577)	\$21,196
Sep-10	\$20,988	(81.55%)	(\$17,116)	3.25%	(\$556)	\$20,432
Oct-10	<u>\$20,143</u>	(81.55%)	<u>(\$16,427)</u>	3.25%	<u>(\$534)</u>	<u>\$19,609</u>
Total	\$62,905		(\$51,299)		(\$1,667)	\$61,237

(1) Schedule RSF-4.

Unitil Energy Systems, Inc.
Typical Bill Impacts by Rate Component (1)

<u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u>							
	5/1/2010	8/1/2010					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill (2)</u>	<u>As Revised Bill (2)</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$108.86	\$108.86	\$0.00	\$108.86	\$108.86	\$0.00	0.0%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$5.69	\$5.69	\$0.00	\$3,129.50	\$3,129.50	\$0.00	0.0%
Stranded Cost Charge	<u>\$1.24</u>	<u>\$1.24</u>	<u>\$0.00</u>	<u>\$682.00</u>	<u>\$682.00</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$6.93	\$6.93	\$0.00	\$3,811.50	\$3,811.50	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.01425	\$0.01425	\$0.00000	\$2,850.00	\$2,850.00	\$0.00	0.0%
Stranded Cost Charge	\$0.00147	\$0.00147	\$0.00000	\$294.00	\$294.00	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$660.00	\$660.00	\$0.00	0.0%
Default Service Charge	<u>\$0.07066</u>	<u>\$0.06706</u>	<u>(\$0.00360)</u>	<u>\$14,132.00</u>	<u>\$13,412.00</u>	<u>(\$720.00)</u>	<u>(3.3%)</u>
Total	\$0.08968	\$0.08608	(\$0.00360)	\$17,936.00	\$17,216.00	(\$720.00)	(3.3%)
Total Bill				\$21,856.36	\$21,136.36	(\$720.00)	(3.3%)

(1) Comparison isolates the impact of changes to the Default Service Rate only. Excluded are proposed temporary rates filed in DE 10-055 for effect July 1, and the annual change to UES' Stranded Cost Charge and External Delivery Charge expected to be filed on June 17, for effect August 1.

(2) Impacts do not include the Electricity Consumption Tax.

Unitil Energy Systems, Inc.

Typical Bill Impacts - May 1, 2010 versus August 1, 2010**

Impacts do NOT include the Electricity Consumption Tax

Impact on G1 Rate Customers

Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 5/1/2010	Total Bill Using Rates 8/1/2010	Total Difference	% Total Difference
25.0%	200	36,500	\$4,768.18	\$4,636.78	(\$131.40)	(2.8%)
25.0%	400	73,000	\$9,427.50	\$9,164.70	(\$262.80)	(2.8%)
25.0%	600	109,500	\$14,086.82	\$13,692.62	(\$394.20)	(2.8%)
25.0%	800	146,000	\$18,746.14	\$18,220.54	(\$525.60)	(2.8%)
25.0%	1,000	182,500	\$23,405.46	\$22,748.46	(\$657.00)	(2.8%)
25.0%	1,500	273,750	\$35,053.76	\$34,068.26	(\$985.50)	(2.8%)
25.0%	2,000	365,000	\$46,702.06	\$45,388.06	(\$1,314.00)	(2.8%)
25.0%	2,500	456,250	\$58,350.36	\$56,707.86	(\$1,642.50)	(2.8%)
25.0%	3,000	547,500	\$69,998.66	\$68,027.66	(\$1,971.00)	(2.8%)
40.0%	200	58,400	\$6,732.17	\$6,521.93	(\$210.24)	(3.1%)
40.0%	400	116,800	\$13,355.48	\$12,935.00	(\$420.48)	(3.1%)
40.0%	600	175,200	\$19,978.80	\$19,348.08	(\$630.72)	(3.2%)
40.0%	800	233,600	\$26,602.11	\$25,761.15	(\$840.96)	(3.2%)
40.0%	1,000	292,000	\$33,225.42	\$32,174.22	(\$1,051.20)	(3.2%)
40.0%	1,500	438,000	\$49,783.70	\$48,206.90	(\$1,576.80)	(3.2%)
40.0%	2,000	584,000	\$66,341.98	\$64,239.58	(\$2,102.40)	(3.2%)
40.0%	2,500	730,000	\$82,900.26	\$80,272.26	(\$2,628.00)	(3.2%)
40.0%	3,000	876,000	\$99,458.54	\$96,304.94	(\$3,153.60)	(3.2%)
57.0%	200	83,220	\$8,958.03	\$8,658.44	(\$299.59)	(3.3%)
57.0%	400	166,440	\$17,807.20	\$17,208.02	(\$599.18)	(3.4%)
57.0%	600	249,660	\$26,656.37	\$25,757.59	(\$898.78)	(3.4%)
57.0%	800	332,880	\$35,505.54	\$34,307.17	(\$1,198.37)	(3.4%)
57.0%	1,000	416,100	\$44,354.71	\$42,856.75	(\$1,497.96)	(3.4%)
57.0%	1,500	624,150	\$66,477.63	\$64,230.69	(\$2,246.94)	(3.4%)
57.0%	2,000	832,200	\$88,600.56	\$85,604.64	(\$2,995.92)	(3.4%)
57.0%	2,500	1,040,250	\$110,723.48	\$106,978.58	(\$3,744.90)	(3.4%)
57.0%	3,000	1,248,300	\$132,846.40	\$128,352.52	(\$4,493.88)	(3.4%)
71.0%	200	103,660	\$10,791.09	\$10,417.91	(\$373.18)	(3.5%)
71.0%	400	207,320	\$21,473.32	\$20,726.97	(\$746.35)	(3.5%)
71.0%	600	310,980	\$32,155.55	\$31,036.02	(\$1,119.53)	(3.5%)
71.0%	800	414,640	\$42,837.78	\$41,345.07	(\$1,492.70)	(3.5%)
71.0%	1,000	518,300	\$53,520.00	\$51,654.12	(\$1,865.88)	(3.5%)
71.0%	1,500	777,450	\$80,225.58	\$77,426.76	(\$2,798.82)	(3.5%)
71.0%	2,000	1,036,600	\$106,931.15	\$103,199.39	(\$3,731.76)	(3.5%)
71.0%	2,500	1,295,750	\$133,636.72	\$128,972.02	(\$4,664.70)	(3.5%)
71.0%	3,000	1,554,900	\$160,342.29	\$154,744.65	(\$5,597.64)	(3.5%)

	<u>Rates Effective May 1, 2010</u>	<u>Rates Proposed August 1, 2010</u>	<u>Difference</u>
Customer Charge	\$108.86	\$108.86	\$0.00
Distribution Charge	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Stranded Cost Charge	\$5.69	\$5.69	\$0.00
TOTAL	<u>\$1.24</u>	<u>\$1.24</u>	<u>\$0.00</u>
	\$6.93	\$6.93	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.01425	\$0.01425	\$0.00000
Stranded Cost Charge	\$0.00147	\$0.00147	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge*	<u>\$0.07066</u>	<u>\$0.06706</u>	<u>(\$0.00360)</u>
TOTAL	<u>\$0.08968</u>	<u>\$0.08608</u>	<u>(\$0.00360)</u>

* Default Service Charges shown are based on the average of the DSC for each 3-month period.

** Comparison isolates the impact of changes to the Default Service Rate only. Excluded are proposed temporary rates filed in DE 10-055 for effect July 1, and the annual change to UES' Stranded Cost Charge and External Delivery Charge expected to be filed on June 17, for effect August 1.

Unitil Energy Systems, Inc.						
Typical Bill Impacts - August 1, 2009 versus August 1, 2010**						
Impacts do NOT include the Electricity Consumption Tax						
Impact on G1 Rate Customers						
Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 8/1/2009	Total Bill Using Rates 8/1/2010	Total Difference	% Total Difference
25.0%	200	36,500	\$4,818.92	\$4,636.78	(\$182.14)	(3.8%)
25.0%	400	73,000	\$9,528.97	\$9,164.70	(\$364.27)	(3.8%)
25.0%	600	109,500	\$14,239.03	\$13,692.62	(\$546.41)	(3.8%)
25.0%	800	146,000	\$18,949.08	\$18,220.54	(\$728.54)	(3.8%)
25.0%	1,000	182,500	\$23,659.14	\$22,748.46	(\$910.68)	(3.8%)
25.0%	1,500	273,750	\$35,434.27	\$34,068.26	(\$1,366.01)	(3.9%)
25.0%	2,000	365,000	\$47,209.41	\$45,388.06	(\$1,821.35)	(3.9%)
25.0%	2,500	456,250	\$58,984.55	\$56,707.86	(\$2,276.69)	(3.9%)
25.0%	3,000	547,500	\$70,759.69	\$68,027.66	(\$2,732.02)	(3.9%)
40.0%	200	58,400	\$6,813.35	\$6,521.93	(\$291.42)	(4.3%)
40.0%	400	116,800	\$13,517.84	\$12,935.00	(\$582.83)	(4.3%)
40.0%	600	175,200	\$20,222.32	\$19,348.08	(\$874.25)	(4.3%)
40.0%	800	233,600	\$26,926.81	\$25,761.15	(\$1,165.66)	(4.3%)
40.0%	1,000	292,000	\$33,631.30	\$32,174.22	(\$1,457.08)	(4.3%)
40.0%	1,500	438,000	\$50,392.52	\$48,206.90	(\$2,185.62)	(4.3%)
40.0%	2,000	584,000	\$67,153.74	\$64,239.58	(\$2,914.16)	(4.3%)
40.0%	2,500	730,000	\$83,914.96	\$80,272.26	(\$3,642.70)	(4.3%)
40.0%	3,000	876,000	\$100,676.18	\$96,304.94	(\$4,371.24)	(4.3%)
57.0%	200	83,220	\$9,073.71	\$8,658.44	(\$415.27)	(4.6%)
57.0%	400	166,440	\$18,038.55	\$17,208.02	(\$830.54)	(4.6%)
57.0%	600	249,660	\$27,003.40	\$25,757.59	(\$1,245.80)	(4.6%)
57.0%	800	332,880	\$35,968.24	\$34,307.17	(\$1,661.07)	(4.6%)
57.0%	1,000	416,100	\$44,933.09	\$42,856.75	(\$2,076.34)	(4.6%)
57.0%	1,500	624,150	\$67,345.20	\$64,230.69	(\$3,114.51)	(4.6%)
57.0%	2,000	832,200	\$89,757.31	\$85,604.64	(\$4,152.68)	(4.6%)
57.0%	2,500	1,040,250	\$112,169.43	\$106,978.58	(\$5,190.85)	(4.6%)
57.0%	3,000	1,248,300	\$134,581.54	\$128,352.52	(\$6,229.02)	(4.6%)
71.0%	200	103,660	\$10,935.18	\$10,417.91	(\$517.26)	(4.7%)
71.0%	400	207,320	\$21,761.49	\$20,726.97	(\$1,034.53)	(4.8%)
71.0%	600	310,980	\$32,587.81	\$31,036.02	(\$1,551.79)	(4.8%)
71.0%	800	414,640	\$43,414.12	\$41,345.07	(\$2,069.05)	(4.8%)
71.0%	1,000	518,300	\$54,240.44	\$51,654.12	(\$2,586.32)	(4.8%)
71.0%	1,500	777,450	\$81,306.23	\$77,426.76	(\$3,879.48)	(4.8%)
71.0%	2,000	1,036,600	\$108,372.02	\$103,199.39	(\$5,172.63)	(4.8%)
71.0%	2,500	1,295,750	\$135,437.81	\$128,972.02	(\$6,465.79)	(4.8%)
71.0%	3,000	1,554,900	\$162,503.60	\$154,744.65	(\$7,758.95)	(4.8%)
			Rates Effective August 1, 2009	Rates Proposed August 1, 2010	Difference	
Customer Charge			\$108.86	\$108.86	\$0.00	
Distribution Charge			<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>	
Stranded Cost Charge			\$5.69	\$5.69	\$0.00	
TOTAL			<u>\$1.24</u>	<u>\$1.24</u>	<u>\$0.00</u>	
			\$6.93	\$6.93	\$0.00	
			<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge			\$0.00000	\$0.00000	\$0.00000	
External Delivery Charge			\$0.01425	\$0.01425	\$0.00000	
Stranded Cost Charge			\$0.00147	\$0.00147	\$0.00000	