

NHPUC No. 3 - Electricity Delivery
Unitil Energy Systems, Inc.

Twenty-Third~~Second~~ Revised Page 75
Superseding Twenty-Second~~First~~ Page 75

(I)

CALCULATION OF THE DEFAULT SERVICE CHARGE

					As shown on Schedule LSM-2, Page 1			
G1 Class Default Service:					<u>Aug-12</u>	<u>Sep-12</u>	<u>Oct-12</u>	<u>Total</u>
<i>Power Supply Charge</i>								
1 Reconciliation	(\$26,711)	(\$27,290)	(\$31,916)	(\$85,917)	(\$29,487)	(\$29,988)	(\$25,224)	(\$84,700)
2 Total Costs	\$252,575	\$240,687	\$284,624	\$777,885	\$290,272	\$270,526	\$241,764	\$802,561
3 Reconciliation plus Total Costs (L.1 + L.2)	\$225,863	\$213,397	\$252,708	\$691,968	\$260,785	\$240,538	\$216,539	\$717,862
4 kWh Purchases	5,490,937	5,609,892	6,560,900	17,661,729	6,061,611	6,164,523	5,185,308	17,411,442
5 Total, Before Losses (L.3 / L.4)	\$0.04113	\$0.03804	\$0.03852		\$0.04302	\$0.03902	\$0.04176	
6 Losses	4.591%	4.591%	4.591%		4.591%	4.591%	4.591%	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.04302	\$0.03979	\$0.04029		\$0.04500	\$0.04081	\$0.04368	
<i>Renewable Portfolio Standard (RPS) Charge</i>					As shown on Schedule LSM-3, Page 1			
8 Reconciliation	(\$8,950)	(\$9,144)	(\$10,694)	(\$28,788)	(\$9,880)	(\$10,048)	(\$8,452)	(\$28,380)
9 Total Costs	\$19,700	\$20,127	\$23,539	\$63,367	\$21,748	\$22,117	\$18,604	\$62,469
10 Reconciliation plus Total Costs (L.8 + L.9)	\$10,750	\$10,983	\$12,845	\$34,579	\$11,868	\$12,069	\$10,152	\$34,089
11 kWh Purchases	5,490,937	5,609,892	6,560,900	17,661,729	6,061,611	6,164,523	5,185,308	17,411,442
12 Total, Before Losses (L.10 / L.11)	\$0.00196	\$0.00196	\$0.00196		\$0.00196	\$0.00196	\$0.00196	
13 Losses	4.591%	4.591%	4.591%		4.591%	4.591%	4.591%	
14 Total Retail Rate - Variable RPS Charge (L.12 * (1+L.13))	\$0.00205	\$0.00205	\$0.00205		\$0.00205	\$0.00205	\$0.00205	
15 Total Retail Rate - Variable Default Service Charge (L.7 + L.14)	\$0.04507	\$0.04184	\$0.04234		\$0.04705	\$0.04286	\$0.04573	

Authorized by NHPUC Order No. ~~25,335~~ in Case No. DE 12-003, dated ~~March 16~~, 2012

Issued: June 7~~March 9~~, 2012
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Issued By: Mark H. Collin
Treasurer

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-12</u> <u>Estimated</u>	<u>Sep-12</u> <u>Estimated</u>	<u>Oct-12</u> <u>Estimated</u>	<u>Total</u>
1 Reconciliation (1)	(\$29,487)	(\$29,988)	(\$25,224)	(\$84,700)
2 Total Costs (Page 2)	\$290,272	\$270,526	\$241,763	\$802,561
3 Reconciliation plus Total Costs (L.1 + L.2)	\$260,785	\$240,538	\$216,539	\$717,862
4 kWh Purchases	6,061,611	6,164,523	5,185,308	17,411,442
5 Total, Before Losses (L.3 / L.4)	\$0.04302	\$0.03902	\$0.04176	
6 Losses	4.591%	4.591%	4.591%	
7 Total Retail Rate - Variable Power Supply Charge (L.5 * (1+L.6))	\$0.04500	\$0.04081	\$0.04368	

(1) As filed in UES's March 9, 2012 Default Service filing. Power Supply Charge balance as of January 31, 2012 as adjusted, allocated between rate periods (May-July 2012, August-October 2012, November 2012-January 2013, and February-April 2013) and then to each month on equal per kWh basis.

Total Power Supply Charge reconciliation for May 1, 2012-April 30, 2013 (\$322,568)

Reconciliation amount for May-July 2012	(\$85,917)
Reconciliation amount for August-October 2012	(\$84,700)
Reconciliation amount for November 2012-January 2013	(\$76,998)
Reconciliation amount for February-April 2013	<u>(\$74,953)</u>
Total	(\$322,568)

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-12	\$57	2.43%		3.25%			\$3,153	\$0	\$0	\$290,272	
Sep-12	\$53	2.43%		3.25%			\$3,153	\$0	\$0	\$270,526	
Oct-12	\$54	2.43%		3.25%			\$3,153	\$0	\$0	\$241,763	
Total	\$163						\$9,458	\$0	\$0	\$802,561	

(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-12 Estimated</u>	<u>Sep-12 Estimated</u>	<u>Oct-12 Estimated</u>	<u>Total</u>
1 Reconciliation	(\$9,880)	(\$10,048)	(\$8,452)	(\$28,380)
2 Total Costs (Page 2)	<u>\$21,748</u>	<u>\$22,117</u>	<u>\$18,604</u>	<u>\$62,469</u>
3 Reconciliation plus Total Costs (L.1 + L.2)	\$11,868	\$12,069	\$10,152	\$34,089
4 kWh Purchases	<u>6,061,611</u>	<u>6,164,523</u>	<u>5,185,308</u>	17,411,442
5 Total, Before Losses (L.3 / L.4)	\$0.00196	\$0.00196	\$0.00196	
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))	\$0.00205	\$0.00205	\$0.00205	

(1) As filed in UES's March 9, 2012 Default Service filing. RPS Charge balance as of January 31, 2012 as adjusted, allocated between rate periods (May-July 2012, August-October 2012, November 2012-January 2013, and February-April 2013) and then to each month on equal per kWh basis.

Total RPS Charge reconciliation for May 1, 2012-April 30, 2013	(\$108,081)
Reconciliation amount for May-July 2012	(\$28,788)
Reconciliation amount for August-October 2012	(\$28,380)
Reconciliation amount for November 2012-January 2013	(\$25,799)
Reconciliation amount for February-April 2013	<u>(\$25,114)</u>
Total	(\$108,081)

		<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-12	\$22,286	(74.28%)	(\$16,553)	3.25%	(\$538)	\$21,748
Sep-12	\$22,664	(74.28%)	(\$16,834)	3.25%	(\$547)	\$22,117
Oct-12	<u>\$19,064</u>	(74.28%)	<u>(\$14,160)</u>	3.25%	<u>(\$460)</u>	<u>\$18,604</u>
Total	\$64,014		(\$47,548)		(\$1,545)	\$62,469

(1) Schedule TMB-4.

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

<u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u>							
<u>Rate Components</u>	<u>Current Rate 5/1/2012</u>	<u>Proposed Rate 8/1/2012</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>Proposed Bill*</u>	<u>Difference (\$)</u>	<u>Rate Component Impact to Total Bill (%)</u>
Customer Charge	\$89.53	\$89.53	\$0.00	\$89.53	\$89.53	\$0.00	0.0%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$6.42	\$6.42	\$0.00	\$3,531.00	\$3,531.00	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.01)</u>	<u>(\$0.01)</u>	<u>\$0.00</u>	<u>(\$5.50)</u>	<u>(\$5.50)</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$6.41	\$6.41	\$0.00	\$3,525.50	\$3,525.50	\$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	\$0.01479	\$0.01479	\$0.00000	\$2,958.00	\$2,958.00	\$0.00	0.0%
Stranded Cost Charge	(\$0.00001)	(\$0.00001)	\$0.00000	(\$2.00)	(\$2.00)	\$0.00	0.0%
Storm Recovery Adjustment	\$0.00178	\$0.00178	\$0.00000	\$356.00	\$356.00	\$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>\$0.04308</u>	<u>\$0.04521</u>	<u>\$0.00213</u>	<u>\$8,616.00</u>	<u>\$9,042.00</u>	<u>\$426.00</u>	<u>2.6%</u>
Total	\$0.06294	\$0.06507	\$0.00213	\$12,588.00	\$13,014.00	\$426.00	2.6%
Total Bill				\$16,203.03	\$16,629.03	\$426.00	2.6%

* Impacts do not include the Electricity Consumption Tax.

Unitil Energy Systems, Inc.						
Typical Bill Impacts - May 1, 2012 versus August 1, 2012						
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 5/1/2012	Total Bill Using Rates 8/1/2012	Total Difference	% Total Difference
25.0%	200	36,500	\$3,668.84	\$3,746.59	\$77.74	2.1%
25.0%	400	73,000	\$7,248.15	\$7,403.64	\$155.49	2.1%
25.0%	600	109,500	\$10,827.46	\$11,060.70	\$233.24	2.2%
25.0%	800	146,000	\$14,406.77	\$14,717.75	\$310.98	2.2%
25.0%	1,000	182,500	\$17,986.08	\$18,374.81	\$388.73	2.2%
25.0%	1,500	273,750	\$26,934.36	\$27,517.44	\$583.09	2.2%
25.0%	2,000	365,000	\$35,882.63	\$36,660.08	\$777.45	2.2%
25.0%	2,500	456,250	\$44,830.91	\$45,802.72	\$971.81	2.2%
25.0%	3,000	547,500	\$53,779.18	\$54,945.36	\$1,166.18	2.2%
40.0%	200	58,400	\$5,047.23	\$5,171.62	\$124.39	2.5%
40.0%	400	116,800	\$10,004.92	\$10,253.71	\$248.78	2.5%
40.0%	600	175,200	\$14,962.62	\$15,335.79	\$373.18	2.5%
40.0%	800	233,600	\$19,920.31	\$20,417.88	\$497.57	2.5%
40.0%	1,000	292,000	\$24,878.01	\$25,499.97	\$621.96	2.5%
40.0%	1,500	438,000	\$37,272.25	\$38,205.19	\$932.94	2.5%
40.0%	2,000	584,000	\$49,666.49	\$50,910.41	\$1,243.92	2.5%
40.0%	2,500	730,000	\$62,060.73	\$63,615.63	\$1,554.90	2.5%
40.0%	3,000	876,000	\$74,454.97	\$76,320.85	\$1,865.88	2.5%
57.0%	200	83,220	\$6,609.40	\$6,786.66	\$177.26	2.7%
57.0%	400	166,440	\$13,129.26	\$13,483.78	\$354.52	2.7%
57.0%	600	249,660	\$19,649.13	\$20,180.91	\$531.78	2.7%
57.0%	800	332,880	\$26,169.00	\$26,878.03	\$709.03	2.7%
57.0%	1,000	416,100	\$32,688.86	\$33,575.16	\$886.29	2.7%
57.0%	1,500	624,150	\$48,988.53	\$50,317.97	\$1,329.44	2.7%
57.0%	2,000	832,200	\$65,288.20	\$67,060.78	\$1,772.59	2.7%
57.0%	2,500	1,040,250	\$81,587.87	\$83,803.60	\$2,215.73	2.7%
57.0%	3,000	1,248,300	\$97,887.53	\$100,546.41	\$2,658.88	2.7%
71.0%	200	103,660	\$7,895.89	\$8,116.69	\$220.80	2.8%
71.0%	400	207,320	\$15,702.25	\$16,143.84	\$441.59	2.8%
71.0%	600	310,980	\$23,508.61	\$24,171.00	\$662.39	2.8%
71.0%	800	414,640	\$31,314.97	\$32,198.15	\$883.18	2.8%
71.0%	1,000	518,300	\$39,121.33	\$40,225.31	\$1,103.98	2.8%
71.0%	1,500	777,450	\$58,637.23	\$60,293.20	\$1,655.97	2.8%
71.0%	2,000	1,036,600	\$78,153.13	\$80,361.09	\$2,207.96	2.8%
71.0%	2,500	1,295,750	\$97,669.04	\$100,428.98	\$2,759.95	2.8%
71.0%	3,000	1,554,900	\$117,184.94	\$120,496.87	\$3,311.94	2.8%
			Rates - Effective May 1, 2012	Rates - Proposed August 1, 2012	Difference	
Customer Charge			\$89.53	\$89.53	\$0.00	
			All kVA	All kVA	All kVA	
Distribution Charge			\$6.42	\$6.42	\$0.00	
Stranded Cost Charge			(\$0.01)	(\$0.01)	\$0.00	
TOTAL			\$6.41	\$6.41	\$0.00	
			All kWh	All kWh	All kWh	
Distribution Charge			\$0.00000	\$0.00000	\$0.00000	
External Delivery Charge			\$0.01479	\$0.01479	\$0.00000	
Stranded Cost Charge			(\$0.00001)	(\$0.00001)	\$0.00000	
Storm Recovery Adjustment			\$0.00178	\$0.00178	\$0.00000	
System Benefits Charge			\$0.00330	\$0.00330	\$0.00000	
Default Service Charge*			\$0.04308	\$0.04521	\$0.00213	
TOTAL			\$0.06294	\$0.06507	\$0.00213	
* Default Service Charges shown are based on the average of the DSC for each 3-month period.						

Unitil Energy Systems, Inc. Typical Bill Impacts - August 1, 2011 versus August 1, 2012 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 8/1/2011	Total Bill Using Rates 8/1/2012	Total Difference	% Total Difference
25.0%	200	36,500	\$4,659.15	\$3,746.59	(\$912.56)	(19.6%)
25.0%	400	73,000	\$9,231.20	\$7,403.64	(\$1,827.56)	(19.8%)
25.0%	600	109,500	\$13,803.26	\$11,060.70	(\$2,742.56)	(19.9%)
25.0%	800	146,000	\$18,375.31	\$14,717.75	(\$3,657.56)	(19.9%)
25.0%	1,000	182,500	\$22,947.37	\$18,374.81	(\$4,572.56)	(19.9%)
25.0%	1,500	273,750	\$34,377.50	\$27,517.44	(\$6,860.06)	(20.0%)
25.0%	2,000	365,000	\$45,807.64	\$36,660.08	(\$9,147.56)	(20.0%)
25.0%	2,500	456,250	\$57,237.78	\$45,802.72	(\$11,435.06)	(20.0%)
25.0%	3,000	547,500	\$68,667.92	\$54,945.36	(\$13,722.56)	(20.0%)
40.0%	200	58,400	\$6,653.58	\$5,171.62	(\$1,481.96)	(22.3%)
40.0%	400	116,800	\$13,220.07	\$10,253.71	(\$2,966.36)	(22.4%)
40.0%	600	175,200	\$19,786.55	\$15,335.79	(\$4,450.76)	(22.5%)
40.0%	800	233,600	\$26,353.04	\$20,417.88	(\$5,935.16)	(22.5%)
40.0%	1,000	292,000	\$32,919.53	\$25,499.97	(\$7,419.56)	(22.5%)
40.0%	1,500	438,000	\$49,335.75	\$38,205.19	(\$11,130.56)	(22.6%)
40.0%	2,000	584,000	\$65,751.97	\$50,910.41	(\$14,841.56)	(22.6%)
40.0%	2,500	730,000	\$82,168.19	\$63,615.63	(\$18,552.56)	(22.6%)
40.0%	3,000	876,000	\$98,584.41	\$76,320.85	(\$22,263.56)	(22.6%)
57.0%	200	83,220	\$8,913.94	\$6,786.66	(\$2,127.28)	(23.9%)
57.0%	400	166,440	\$17,740.78	\$13,483.78	(\$4,257.00)	(24.0%)
57.0%	600	249,660	\$26,567.63	\$20,180.91	(\$6,386.72)	(24.0%)
57.0%	800	332,880	\$35,394.47	\$26,878.03	(\$8,516.44)	(24.1%)
57.0%	1,000	416,100	\$44,221.32	\$33,575.16	(\$10,646.16)	(24.1%)
57.0%	1,500	624,150	\$66,288.43	\$50,317.97	(\$15,970.46)	(24.1%)
57.0%	2,000	832,200	\$88,355.54	\$67,060.78	(\$21,294.76)	(24.1%)
57.0%	2,500	1,040,250	\$110,422.66	\$83,803.60	(\$26,619.06)	(24.1%)
57.0%	3,000	1,248,300	\$132,489.77	\$100,546.41	(\$31,943.36)	(24.1%)
71.0%	200	103,660	\$10,775.41	\$8,116.69	(\$2,658.72)	(24.7%)
71.0%	400	207,320	\$21,463.72	\$16,143.84	(\$5,319.88)	(24.8%)
71.0%	600	310,980	\$32,152.04	\$24,171.00	(\$7,981.04)	(24.8%)
71.0%	800	414,640	\$42,840.35	\$32,198.15	(\$10,642.20)	(24.8%)
71.0%	1,000	518,300	\$53,528.67	\$40,225.31	(\$13,303.36)	(24.9%)
71.0%	1,500	777,450	\$80,249.46	\$60,293.20	(\$19,956.26)	(24.9%)
71.0%	2,000	1,036,600	\$106,970.25	\$80,361.09	(\$26,609.16)	(24.9%)
71.0%	2,500	1,295,750	\$133,691.04	\$100,428.98	(\$33,262.06)	(24.9%)
71.0%	3,000	1,554,900	\$160,411.83	\$120,496.87	(\$39,914.96)	(24.9%)

	<u>Rates Effective August 1, 2011</u>	<u>Rates - Proposed August 1, 2012</u>	<u>Difference</u>
Customer Charge	\$87.09	\$89.53	\$2.44
	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Distribution Charge	\$6.25	\$6.42	\$0.17
Stranded Cost Charge	(\$0.01)	(\$0.01)	\$0.00
TOTAL	\$6.24	\$6.41	\$0.17
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00034	\$0.00000	(\$0.00034)
External Delivery Charge	\$0.01479	\$0.01479	\$0.00000
Stranded Cost Charge	(\$0.00001)	(\$0.00001)	\$0.00000
Storm Recovery Adjustment	\$0.00096	\$0.00178	\$0.00082
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge*	<u>\$0.07169</u>	<u>\$0.04521</u>	<u>(\$0.02648)</u>
TOTAL	\$0.09107	\$0.06507	(\$0.02600)

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