

UNITIL ENERGY SYSTEMS. INC.
CALCULATION OF THE EXTERNAL DELIVERY CHARGE
Effective August 1, 2016

1. (Over)/under Recovery - Beginning Balance August 1, 2016	(\$745,296)	Page 3 of 7
2. Estimated Total Costs (August 2016 - July 2017)	\$26,164,782	Page 3 of 7
3. Estimated Interest (August 2016 - July 2017)	<u>(\$6,875)</u>	Page 3 of 7
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$25,412,611	L.1 + L.2 + L.3
5. Estimated Calendar Month Deliveries in kWh (August 2016 - July 2017) (1)	<u>1,185,546,760</u>	
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02144	

(1) Schedule LSM-2, page 5.

August 2016 - July 2017 Billed kWh	1,187,343,700
- July 2016 Unbilled kWh	(61,878,283)
+ July 2017 Unbilled kWh	<u>60,081,342</u>
Calendar Month Deliveries	1,185,546,760

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-14	Actual	(\$1,869,146)	\$2,470,325	\$1,958,696	(\$1,357,517)	(\$1,613,331)	3.25%	31	(\$4,453)	(\$1,361,970)
Sep-14	Actual	(\$1,361,970)	\$2,362,314	\$1,798,565	(\$798,221)	(\$1,080,096)	3.25%	30	(\$2,885)	(\$801,107)
Oct-14	Actual	(\$801,107)	\$1,679,575	\$1,758,347	(\$879,878)	(\$840,492)	3.25%	31	(\$2,320)	(\$882,198)
Nov-14	Actual	(\$882,198)	\$1,890,090	\$1,707,422	(\$699,530)	(\$790,864)	3.25%	30	(\$2,111) (1)	(\$701,641)
Dec-14	Actual	(\$701,641)	\$1,646,960	\$1,894,338	(\$949,020)	(\$825,331)	3.25%	31	(\$2,278)	(\$951,298)
Jan-15	Actual	(\$951,298)	\$1,954,407	\$1,979,849	(\$976,740)	(\$964,019)	3.25%	31	(\$2,661)	(\$979,401)
Feb-15	Actual	(\$979,401)	\$1,868,148	\$1,920,046	(\$1,031,299)	(\$1,005,350)	3.25%	28	(\$2,506)	(\$1,033,806)
Mar-15	Actual	(\$1,033,806)	\$1,756,193	\$1,921,989	(\$1,199,601)	(\$1,116,703)	3.25%	31	(\$3,082)	(\$1,202,684)
Apr-15	Actual	(\$1,202,684)	\$1,372,026	\$1,691,599	(\$1,522,256)	(\$1,362,470)	3.25%	30	(\$3,639)	(\$1,525,896)
May-15	Actual	(\$1,525,896)	\$2,192,956	\$1,547,190	(\$880,129)	(\$1,203,013)	3.25%	31	(\$3,349)(2)	(\$883,479)
Jun-15	Actual	(\$883,479)	\$2,689,589	\$1,897,303	(\$91,192)	(\$487,336)	3.25%	30	(\$1,302)	(\$92,494)
Jul-15	Actual	(\$92,494)	<u>\$2,002,828</u>	<u>\$2,176,576</u>	(\$266,243)	(\$179,368)	3.25%	31	<u>(\$495)</u>	(\$266,738)
Total Aug-14 to Jul-15			\$23,885,410	\$22,251,919					(\$31,084)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning Balance	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-15	Actual	(\$718,790)(3)	\$2,639,857	\$2,555,386	(\$634,319)	(\$676,555)	3.25%	31	(\$5,591)(4)	(\$639,910)
Sep-15	Actual	(\$639,910)	\$2,705,130	\$2,273,032	(\$207,813)	(\$423,862)	3.25%	30	(\$1,345)(5)	(\$209,158)
Oct-15	Actual	(\$209,158)	\$1,885,345	\$1,886,048	(\$209,861)	(\$209,510)	3.25%	31	(\$578)	(\$210,439)
Nov-15	Actual	(\$210,439)	\$1,372,374	\$1,916,313	(\$754,378)	(\$482,409)	3.25%	30	(\$1,289)	(\$755,667)
Dec-15	Actual	(\$755,667)	\$2,299,640	\$1,952,798	(\$408,825)	(\$582,246)	3.25%	31	(\$1,607)	(\$410,433)
Jan-16	Actual	(\$410,433)	\$1,749,832	\$2,330,663	(\$991,263)	(\$700,848)	3.25%	31	(\$1,929)	(\$993,193)
Feb-16	Actual	(\$993,193)	\$2,132,259	\$2,045,815	(\$906,748)	(\$949,970)	3.25%	29	(\$2,446)	(\$909,195)
Mar-16	Actual	(\$909,195)	\$1,583,764	\$2,044,859	(\$1,370,290)	(\$1,139,742)	3.25%	31	(\$3,137)	(\$1,373,428)
Apr-16	Actual	(\$1,373,428)	\$1,879,251	\$1,853,193	(\$1,347,370)	(\$1,360,399)	3.50%	30	(\$3,903)	(\$1,351,272)
May-16	Actual	(\$1,351,272)	\$2,125,817	\$1,850,344	(\$1,075,799)	(\$1,213,536)	3.50%	31	(\$3,598)	(\$1,079,397)
Jun-16	Estimate	(\$1,541,615)(6)	\$3,202,940	\$2,237,007	(\$575,681)	(\$1,058,648)	3.50%	30	(\$3,037)	(\$578,718)
Jul-16	Estimate	(\$578,718)	<u>\$2,367,944</u>	<u>\$2,532,562</u>	(\$743,336)	(\$661,027)	3.50%	31	<u>(\$1,960)</u>	(\$745,296)
Total Aug-15 to Jul-16			\$25,944,152	\$25,478,020					(\$30,420)	

- (1) Includes \$1.19 for trueup to working capital.
- (2) Includes (\$28.83) to adjust interest due to change in method of recording NHPUC Annual Assessment, effective July 2014.
- (3) Includes VMP/REP reconciliation of (\$452,052), as filed in DE 15-082 on February 27, 2015, and as included in DE 15-244, UES's Annual EDC filing. The NHPUC approved UES's EDC filing on July 23, 2015 by Order No. 25,799.
- (4) Includes (\$3,723.48) to adjust interest for VMP/REP balance, moved in August instead of May 2015.
- (5) Includes (\$212.67) to adjust interest for trueup made to EDC Portion of the annual PUC Assessment.
- (6) Estimate includes VMP/REP reconciliation of (\$462,218), as filed in DE 16-276 on March 1, 2016.

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
		Beginning	Total Costs	Total Revenue	Ending Balance Before Interest (a + b - c)	Average Monthly Balance ((a+d) / 2)	Interest Rate	Number of Days / Month	Computed Interest	Ending Balance with Interest (d + h)
Aug-16	Estimate	(\$745,296)	\$2,813,042	\$2,311,219	(\$243,472)	(\$494,384)	3.50%	31	(\$1,466)	(\$244,938)
Sep-16	Estimate	(\$244,938)	\$2,479,933	\$1,994,995	\$240,000	(\$2,469)	3.50%	30	(\$7)	\$239,993
Oct-16	Estimate	\$239,993	\$1,455,371	\$2,007,194	(\$311,829)	(\$35,918)	3.50%	31	(\$106)	(\$311,936)
Nov-16	Estimate	(\$311,936)	\$2,126,644	\$1,911,799	(\$97,091)	(\$204,513)	3.50%	30	(\$587)	(\$97,678)
Dec-16	Estimate	(\$97,678)	\$2,349,957	\$2,179,296	\$72,984	(\$12,347)	3.50%	31	(\$37)	\$72,948
Jan-17	Estimate	\$72,948	\$1,805,533	\$2,272,346	(\$393,866)	(\$160,459)	3.50%	31	(\$477)	(\$394,343)
Feb-17	Estimate	(\$394,343)	\$2,273,455	\$2,113,258	(\$234,145)	(\$314,244)	3.50%	28	(\$844)	(\$234,989)
Mar-17	Estimate	(\$234,989)	\$2,144,576	\$2,105,357	(\$195,769)	(\$215,379)	3.50%	31	(\$640)	(\$196,410)
Apr-17	Estimate	(\$196,410)	\$1,407,859	\$1,878,530	(\$667,081)	(\$431,745)	3.50%	30	(\$1,242)	(\$668,323)
May-17	Estimate	(\$668,323)	\$2,227,793	\$1,922,692	(\$363,222)	(\$515,772)	3.50%	31	(\$1,533)	(\$364,755)
Jun-17	Estimate	(\$364,755)	\$2,719,777	\$2,150,967	\$204,055	(\$80,350)	3.50%	30	(\$231)	\$203,824
Jul-17	Estimate	\$203,824	<u>\$2,360,842</u>	<u>\$2,570,472</u>	(\$5,806)	\$99,009	3.50%	31	<u>\$294</u>	(\$5,511)
Total Aug-16 to Jul-17			\$26,164,782	\$25,418,123					(\$6,875)	

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Total Billed kWh (1)	Unbilled Factor (2)	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue (1)	Total Revenue (e + f + g)
Aug-14	Actual	115,494,679	51.36%	59,317,967	\$0.01852	\$1,098,569	(\$1,380,481)	\$2,240,608	\$1,958,696
Sep-14	Actual	107,178,851	45.95%	49,252,935	\$0.01852	\$912,164	(\$1,098,569)	\$1,984,970	\$1,798,565
Oct-14	Actual	90,768,730	58.86%	53,424,758	\$0.01852	\$989,427	(\$912,164)	\$1,681,084	\$1,758,347
Nov-14	Actual	90,497,288	60.91%	55,122,493	\$0.01852	\$1,020,869	(\$989,427)	\$1,675,980	\$1,707,422
Dec-14	Actual	102,483,600	53.60%	54,929,780	\$0.01852	\$1,017,300	(\$1,020,869)	\$1,897,907	\$1,894,338
Jan-15	Actual	107,718,250	50.24%	54,115,420	\$0.01852	\$1,002,218	(\$1,017,300)	\$1,994,930	\$1,979,849
Feb-15	Actual	106,475,729	48.19%	51,314,001	\$0.01852	\$950,335	(\$1,002,218)	\$1,971,928	\$1,920,046
Mar-15	Actual	110,811,143	39.96%	44,284,008	\$0.01852	\$820,140	(\$950,335)	\$2,052,184	\$1,921,989
Apr-15	Actual	91,139,375	48.80%	44,476,297	\$0.01852	\$823,701	(\$820,140)	\$1,688,038	\$1,691,599
May-15	Actual	85,892,926	49.04%	42,125,422	\$0.01852	\$780,163	(\$823,701)	\$1,590,728	\$1,547,190
Jun-15	Actual	102,495,562	41.05%	42,076,298	\$0.01852	\$779,253	(\$780,163)	\$1,898,212	\$1,897,303
Jul-15	Actual	<u>106,755,260</u>	49.50%	<u>52,846,120</u>	\$0.01852	<u>\$978,710</u>	<u>(\$779,253)</u>	<u>\$1,977,119</u>	<u>\$2,176,576</u>

Total Aug-14 to Jul-15 1,217,711,394 603,285,498 \$11,172,847 (\$11,574,619) \$22,653,690 \$22,251,919

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		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Total Billed kWh (1)	Unbilled Factor (2)	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue (1)	Total Revenue (e + f + g)
Aug-15	Actual	118,052,728	46.46%	54,843,047	\$0.02131	\$1,168,705	(\$978,710)	\$2,365,391	\$2,555,386
Sep-15	Actual	114,610,029	40.91%	46,891,380	\$0.02131	\$999,255	(\$1,168,705)	\$2,442,483	\$2,273,032
Oct-15	Actual	89,853,566	50.68%	45,539,078	\$0.02131	\$970,438	(\$999,255)	\$1,914,866	\$1,886,048
Nov-15	Actual	86,512,214	56.58%	48,947,455	\$0.02131	\$1,043,070	(\$970,438)	\$1,843,681	\$1,916,313
Dec-15	Actual	93,886,299	49.73%	46,692,806	\$0.02131	\$995,024	(\$1,043,070)	\$2,000,845	\$1,952,798
Jan-16	Actual	103,593,190	50.64%	52,463,076	\$0.02131	\$1,117,988	(\$995,024)	\$2,207,698	\$2,330,663
Feb-16	Actual	103,915,861	42.87%	44,545,033	\$0.02131	\$949,255	(\$1,117,988)	\$2,214,548	\$2,045,815
Mar-16	Actual	97,308,704	44.38%	43,187,736	\$0.02131	\$920,331	(\$949,255)	\$2,073,783	\$2,044,859
Apr-16	Actual	92,179,772	41.19%	37,966,341	\$0.02131	\$809,063	(\$920,331)	\$1,964,461	\$1,853,193
May-16	Actual	83,961,211	48.63%	40,829,623	\$0.02131	\$870,079	(\$809,063)	\$1,789,327	\$1,850,344
Jun-16	Estimate	93,097,842	56.61%	52,706,280	\$0.02131	\$1,123,171	(\$870,079)	\$1,983,915	\$2,237,007
Jul-16	Estimate	<u>109,671,830</u>	56.42%	<u>61,878,283</u>	\$0.02131	<u>\$1,318,626</u>	<u>(\$1,123,171)</u>	<u>\$2,337,107</u>	<u>\$2,532,562</u>

Total Aug-15 to Jul-16 1,186,643,247 576,490,137 \$12,285,005 (\$11,945,089) \$25,138,104 \$25,478,020

(1) Actual per billing system

(2) Detail of Unbilled Factors used in actuals for all classes shown on page 6.

Unitil Energy Systems, Inc.
External Delivery Revenues

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
		Total Billed kWh	Unbilled Factor	Unbilled kWh (a * b)	EDC (\$/kWh)	Unbilled EDC Revenue (c * d)	Reversal of prior month unbilled	Total Billed EDC Revenue	Total Revenue (e + f + g)
Aug-16	Estimate	114,762,171	47.85%	54,915,499	\$0.02144	\$1,177,388	(\$1,318,626)	\$2,452,457	\$2,311,219
Sep-16	Estimate	100,702,388	46.93%	47,263,237	\$0.02144	\$1,013,324	(\$1,177,388)	\$2,159,059	\$1,994,995
Oct-16	Estimate	91,164,298	54.54%	49,718,070	\$0.02144	\$1,065,955	(\$1,013,324)	\$1,954,563	\$2,007,194
Nov-16	Estimate	90,328,239	53.76%	48,559,540	\$0.02144	\$1,041,117	(\$1,065,955)	\$1,936,637	\$1,911,799
Dec-16	Estimate	96,923,448	54.97%	53,282,340	\$0.02144	\$1,142,373	(\$1,041,117)	\$2,078,039	\$2,179,296
Jan-17	Estimate	105,530,756	50.92%	53,737,856	\$0.02144	\$1,152,140	(\$1,142,373)	\$2,262,579	\$2,272,346
Feb-17	Estimate	104,018,437	46.42%	48,285,547	\$0.02144	\$1,035,242	(\$1,152,140)	\$2,230,155	\$2,113,258
Mar-17	Estimate	97,595,002	50.09%	48,888,172	\$0.02144	\$1,048,162	(\$1,035,242)	\$2,092,437	\$2,105,357
Apr-17	Estimate	92,926,777	46.90%	43,579,404	\$0.02144	\$934,342	(\$1,048,162)	\$1,992,350	\$1,878,530
May-17	Estimate	88,447,968	50.66%	44,809,218	\$0.02144	\$960,710	(\$934,342)	\$1,896,324	\$1,922,692
Jun-17	Estimate	94,045,997	54.32%	51,088,160	\$0.02144	\$1,095,330	(\$960,710)	\$2,016,346	\$2,150,967
Jul-17	Estimate	<u>110,898,219</u>	54.18%	60,081,342	\$0.02144	<u>\$1,288,144</u>	<u>(\$1,095,330)</u>	<u>\$2,377,658</u>	<u>\$2,570,472</u>
023	Total Aug-16 to Jul-17	1,187,343,700		604,208,387		\$12,954,228	(\$12,984,710)	\$25,448,605	\$25,418,123

	Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh
Aug-14	115,494,679	59,317,967	51.36%
Sep-14	107,178,851	49,252,935	45.95%
Oct-14	90,768,730	53,424,758	58.86%
Nov-14	90,497,288	55,122,493	60.91%
Dec-14	102,483,600	54,929,780	53.60%
Jan-15	107,718,250	54,115,420	50.24%
Feb-15	106,475,729	51,314,001	48.19%
Mar-15	110,811,143	44,284,008	39.96%
Apr-15	91,139,375	44,476,297	48.80%
May-15	85,892,926	42,125,422	49.04%
Jun-15	102,495,562	42,076,298	41.05%
Jul-15	106,755,260	52,846,120	49.50%
Aug-15	118,052,728	54,843,047	46.46%
Sep-15	114,610,029	46,891,380	40.91%
Oct-15	89,853,566	45,539,078	50.68%
Nov-15	86,512,214	48,947,455	56.58%
Dec-15	93,886,299	46,692,806	49.73%
Jan-16	103,593,190	52,463,076	50.64%
Feb-16	103,915,861	44,545,033	42.87%
Mar-16	97,308,704	43,187,736	44.38%
Apr-16	92,179,772	37,966,341	41.19%

		(a) Beginning Balance-EDC Customer Billing Adjustment	(b) Total Revenue	(c) Ending Balance Before Interest (a - b)	(d) Average Monthly Balance ((a+c) / 2)	(e) Interest Rate	(f) Number of Days / Month	(g) Computed Interest	(h) Ending Balance with Interest (c + g)
Jun-12	Actual	\$137,970		\$137,970	\$137,970	3.25%	30	\$368	\$138,337
Jul-12	Actual	\$138,337		\$138,337	\$138,337	3.25%	31	\$381	\$138,718
Aug-12	Actual	\$138,718		\$138,718	\$138,718	3.25%	31	\$382	\$139,100
Sep-12	Actual	\$139,100		\$139,100	\$139,100	3.25%	30	\$371	\$139,471
Oct-12	Actual	\$139,471		\$139,471	\$139,471	3.25%	31	\$384	\$139,855
Nov-12	Actual	\$139,855		\$139,855	\$139,855	3.25%	30	\$373	\$140,227
Dec-12	Actual	\$140,227		\$140,227	\$140,227	3.25%	31	\$386	\$140,613
Jan-13	Actual	\$140,613		\$140,613	\$140,613	3.25%	31	\$388	\$141,001
Feb-13	Actual	\$141,001		\$141,001	\$141,001	3.25%	28	\$352	\$141,353
Mar-13	Actual	\$141,353		\$141,353	\$141,353	3.25%	31	\$390	\$141,743
Apr-13	Actual	\$141,743		\$141,743	\$141,743	3.25%	30	\$379	\$142,122
May-13	Actual	\$142,122		\$142,122	\$142,122	3.25%	31	\$392	\$142,514
Jun-13	Actual	\$142,514		\$142,514	\$142,514	3.25%	30	\$381	\$142,895
Jul-13	Actual	\$142,895		\$142,895	\$142,895	3.25%	31	\$394	\$143,289
Total Aug-12 to Jul-13								\$4,571	
Aug-13	Actual	\$143,289	\$6,166	\$137,123	\$140,206	3.25%	31	\$387	\$137,510
Sep-13	Actual	\$137,510	\$6,166	\$131,343	\$134,427	3.25%	30	\$359	\$131,703
Oct-13	Actual	\$131,703	\$6,166	\$125,536	\$128,619	3.25%	31	\$355	\$125,891
Nov-13	Actual	\$125,891	\$6,166	\$119,725	\$122,808	3.25%	30	\$328	\$120,053
Dec-13	Actual	\$120,053	\$6,166	\$113,887	\$116,970	3.25%	31	\$323	\$114,210
Jan-14	Actual	\$114,210	\$6,166	\$108,043	\$111,126	3.25%	31	\$307	\$108,350
Feb-14	Actual	\$108,350	\$6,166	\$102,184	\$105,267	3.25%	28	\$262	\$102,446
Mar-14	Actual	\$102,446	\$6,166	\$96,280	\$99,363	3.25%	31	\$274	\$96,554
Apr-14	Actual	\$96,554	\$6,166	\$90,388	\$93,471	3.25%	30	\$250	\$90,637
May-14	Actual	\$90,637	\$6,166	\$84,471	\$87,554	3.25%	31	\$242	\$84,713
Jun-14	Actual	\$84,713	\$6,166	\$78,546	\$81,630	3.25%	30	\$218	\$78,765
Jul-14	Actual	\$78,765	\$6,166	\$72,598	\$75,681	3.25%	31	\$209	\$72,807
Total Aug-13 to Jul-14			\$73,996					\$3,514	
Aug-14	Actual	\$72,807	\$6,166	\$66,641	\$69,724	3.25%	31	\$192	\$66,833
Sep-14	Actual	\$66,833	\$6,166	\$60,667	\$63,750	3.25%	30	\$170	\$60,837
Oct-14	Actual	\$60,837	\$6,166	\$54,671	\$57,754	3.25%	31	\$159	\$54,830
Nov-14	Actual	\$54,830	\$6,166	\$48,664	\$51,747	3.25%	30	\$138	\$48,802
Dec-14	Actual	\$48,802	\$6,166	\$42,636	\$45,719	3.25%	31	\$126	\$42,762
Jan-15	Actual	\$42,762	\$6,166	\$36,596	\$39,679	3.25%	31	\$110	\$36,705
Feb-15	Actual	\$36,705	\$6,166	\$30,539	\$33,622	3.25%	28	\$84	\$30,623
Mar-15	Actual	\$30,623	\$6,166	\$24,457	\$27,540	3.25%	31	\$76	\$24,533
Apr-15	Actual	\$24,533	\$6,166	\$18,366	\$21,449	3.25%	30	\$57	\$18,424
May-15	Actual	\$18,424	\$6,166	\$12,257	\$15,340	3.25%	31	\$42	\$12,300
Jun-15	Actual	\$12,300	\$6,166	\$6,133	\$9,216	3.25%	30	\$25	\$6,158
Jul-15	Actual	\$6,158	\$6,166	(\$8)	\$3,075	3.25%	31	\$8	\$0
Total Aug-14 to Jul-15			\$73,996					\$1,189	
Total Jun-12 to Jul-15			\$147,991					\$10,022	

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

Fifteenth ~~Fourteenth~~ Revised Page 65
 Superseding ~~Fourteenth~~ Issued in Lieu of ~~Thirteenth~~ Revised Page 65

CALCULATION OF THE STRANDED COST CHARGE

As shown on
 Schedule LSM-1,
 Page 1

Uniform per kWh Charge

1. (Over)/under Recovery - Beginning Balance August 1, 2016 5	\$17,795	(\$189,288)
2. Estimated Total Costs (August 2016 5 - July 2017 6)	\$201,684	(\$16,116)
3. Estimated Interest (August 2016 5 - July 2017 6)	<u>\$118</u>	<u>(\$3,028)</u>
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$219,597	(\$208,432)
5. Estimated Calendar Month Deliveries in kWh (August 2016 5 - July 2017 6) (1)	<u>1,215,932,720</u>	<u>1,185,546,760</u>
6. Stranded Cost Charge (\$/kWh) (L.4 / L.5)	<u>\$0.00018</u>	<u>(\$0.00018)</u>
Class D, D - Controlled Off Peak Water Heating, G2 - kWh meter, G2 - Quick Recovery Water Heating, G2 - Space Heating, <u>G2 Controlled Off Peak Water Heating, OL</u>		
7. Stranded Cost Charge (\$/kWh) (L.6)	\$0.00018	(\$0.00018)
<u>Class G2 (1)</u>		
8. Estimated G2 Demand Revenue (August 2016 5 - July 2017 6)	\$49,518	(\$48,568)
9. Estimated G2 Deliveries in kW (August 2016 5 - July 2017 6)	<u>1,355,293</u>	<u>1,349,005</u>
10. Stranded Cost Charge (\$/kW) (L. 8 / L. 9)	\$0.04	(\$0.04)
11. G2 Energy Revenue (August 2016 5 - July 2017 6)	\$12,611	(\$12,143)
12. Estimated G2 Calendar Month Deliveries in kWh (August 2016 5 - July 2017 6) (1)	<u>345,162,788</u>	<u>337,283,415</u>
13. Stranded Cost Charge (\$/kWh) (L.11 / L.12)	\$0.00004	(\$0.00004)
<u>Class G1 (1)</u>		
14. Estimated G1 Demand Revenue (August 2016 5 - July 2017 6)	\$47,647	(\$47,697)
15. Estimated G1 Deliveries in kVA (August 2016 5 - July 2017 6)	<u>1,027,084</u>	<u>1,048,547</u>
16. Stranded Cost Charge (\$/kVA) (L. 14 / L. 15)	\$0.05	(\$0.05)
17. G1 Energy Revenue (August 2016 5 - July 2017 6)	\$16,544	(\$16,130)
18. Estimated G1 Calendar Month Deliveries in kWh (August 2016 5 - July 2017 6) (1)	<u>356,618,649</u>	<u>354,590,940</u>
19. Stranded Cost Charge (\$/kWh) (L.17 / L.18)	\$0.00005	(\$0.00005)

(1) Demand and energy calculated based on ratio of demand and energy revenue under current rates.

Authorized by NHPUC Order No. ~~25,799~~ in Case No. DE 15-244, dated ~~July 23, 2015~~

Issued: June 16, 2016 ~~July 23, 2015~~
 Effective: August 1, 2016~~5~~

Issued By: Mark H. Collin
 Treasurer

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

SixteenthFifteenth Revised Page 67
SupersedingIssued in Lieu of Fourteenth Fifteenth Revised Page 67

CALCULATION OF THE EXTERNAL DELIVERY CHARGE

		As shown on Schedule LSM-2 REVISED, Page 1
1. (Over)/under Recovery - Beginning Balance August 1, 2016 5	(\$40,829)	(\$745,296)
2. Estimated Total Costs (August 2016 5 - July 2017 6)	\$25,950,562	\$26,164,782
3. Estimated Interest (August 2016 5 - July 2017 6)	(\$2,128)	(\$6,875)
4. Costs to be Recovered (L.1 + L.2 + L.3)	\$25,907,606	\$25,412,611
5. Estimated Calendar Month Deliveries in kWh (August 2016 5 - July 2017 6)	1,215,932,720	<u>1,185,546,760</u>
6. External Delivery Charge (\$/kWh) (L. 4 / L. 5)	\$0.02131	\$0.02144

Authorized by NHPUC Order No. ~~25,799~~ in Case No. DE ~~15-244~~, dated July 23, 2015

Issued: July 12, 2016~~July 23, 2015~~
Effective: August 1, 2016~~5~~

Issued By: Mark H. Collin
Sr. Vice President

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

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax)

The effective rates listed below include an Electricity Consumption Tax, assessed in accordance with NH Statute RSA Chapter 83-E. This tax, collected on behalf of the State of NH by each electric utility, is based on kWh consumed. Each bill rendered for electric delivery service shall be calculated through the application of the effective rates as listed below.

Class		Distribution Charge*	External Delivery Charge**	Stranded Cost-Charge**	External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Total Delivery Charges	Total Delivery Charges	Electricity Consumption Tax	Effective Delivery Rate (Incl. Electricity Consumption Tax)	Effective Delivery Rate (Incl. Electricity Consumption Tax)
D	Customer Charge	\$10.27						(1)	\$10.27	\$10.27		\$10.27	\$10.27
	First 250 kWh	\$0.03603	\$0.02131	\$0.00018	\$0.02144	(\$0.00018)	\$0.00221	\$0.00330	\$0.06303	\$0.06280	\$0.00055	\$0.06358	\$0.06335
	Excess 250 kWh	\$0.04103	\$0.02131	\$0.00018	\$0.02144	(\$0.00018)	\$0.00221	\$0.00330	\$0.06803	\$0.06780	\$0.00055	\$0.06858	\$0.06835
G2	Customer Charge	\$18.41							\$18.41	\$18.41		\$18.41	\$18.41
	All kW	\$10.31		\$0.04		(\$0.04)			\$10.35	\$10.27		\$10.35	\$10.27
	All kWh	\$0.00199	\$0.02131	\$0.00004	\$0.02144	(\$0.00004)	\$0.00221	\$0.00330	\$0.02885	\$0.02890	\$0.00055	\$0.02940	\$0.02945
G2 - kWh meter	Customer Charge	\$13.94							\$13.94	\$13.94		\$13.94	\$13.94
	All kWh	\$0.03410	\$0.02131	\$0.00018	\$0.02144	(\$0.00018)	\$0.00221	\$0.00330	\$0.06110	\$0.06087	\$0.00055	\$0.06165	\$0.06142
G2 - Quick Recovery Water Heat and/or Space Heat	Customer Charge	\$6.25							\$6.25	\$6.25		\$6.25	\$6.25
	All kWh	\$0.03272	\$0.02131	\$0.00018	\$0.02144	(\$0.00018)	\$0.00221	\$0.00330	\$0.05972	\$0.05949	\$0.00055	\$0.06027	\$0.06004
G1	Customer Charge	\$97.16	Secondary Voltage						\$97.16	\$97.16		\$97.16	\$97.16
	Customer Charge	\$57.58	Primary Voltage						\$57.58	\$57.58		\$57.58	\$57.58
	All kVA	\$6.95		\$0.05		(\$0.05)			\$7.00	\$6.90		\$7.00	\$6.90
	All kWh	\$0.00199	\$0.02131	\$0.00005	\$0.02144	(\$0.00005)	\$0.00221	\$0.00330	\$0.02886	\$0.02889	\$0.00055	\$0.02941	\$0.02944
ALL GENERAL	Transformer Ownership Credit (kW/kVa)												(\$0.39)
	Voltage Discount at 4,160 Volts or Over (all kW/kVA and kWh)												2.00%
	Voltage Discount at 34,500 Volts or Over (all kW/kVA and kWh)												3.50%

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh

* Authorized by NHPUC Order No. 25,915 in Case No. DE 16-384, dated June 28, 2016.
 ** Authorized by NHPUC Order No. 25,799 in Case No. DE 15-244, dated July 23, 2015
 *** Authorized by NHPUC Order No. 25,498 in Case No. DE 13-084, dated April 25, 2013
 **** Authorized by NHPUC Order No. 24,903 in Case No. DE 08-097, dated September 30, 2008

SUMMARY OF DELIVERY SERVICE RATES (Includes Electricity Consumption Tax) (continued)

Class	Distribution Charge*	External Delivery Charge**	Stranded Cost Charge**	Storm Recovery Adjustment Factor***	System Benefits Charge****	Total Delivery Charges	Electricity Consumption Tax	Effective Delivery Rates (Incl. Electricity Consumption Tax)
OL					(1)			
All kWh	\$0.00199	\$0.02134 \$0.02144	\$0.00018 (\$0.00018)	\$0.00221	\$0.00330	\$0.02899 \$0.02876	\$0.00055	\$0.02954 \$0.02931

Luminaire Charges

Nominal Watts	Lamp Size Lumens (Approx.)	All-Night Service Monthly kWh	Midnight Service Monthly kWh	Description	Price Per Luminaire	
					Per Mo.	Per Year
100	3,500	40	19	Mercury Vapor Street	\$11.28	\$135.36
175	7,000	67	31	Mercury Vapor Street	\$13.65	\$163.80
250	11,000	95	44	Mercury Vapor Street	\$15.67	\$188.04
400	20,000	154	71	Mercury Vapor Street	\$18.94	\$227.28
1,000	60,000	388	180	Mercury Vapor Street	\$39.06	\$468.72
250	11,000	95	44	Mercury Vapor Flood	\$16.79	\$201.48
400	20,000	154	71	Mercury Vapor Flood	\$20.38	\$244.56
1,000	60,000	388	180	Mercury Vapor Flood	\$34.74	\$416.88
100	3,500	40	19	Mercury Vapor Power Bracket	\$11.40	\$136.80
175	7,000	67	31	Mercury Vapor Power Bracket	\$12.81	\$153.72
50	4,000	21	10	Sodium Vapor Street	\$11.51	\$138.12
100	9,500	43	20	Sodium Vapor Street	\$13.14	\$157.68
150	16,000	60	28	Sodium Vapor Street	\$13.20	\$158.40
250	30,000	101	47	Sodium Vapor Street	\$16.91	\$202.92
400	50,000	161	75	Sodium Vapor Street	\$21.70	\$260.40
1,000	140,000	398	185	Sodium Vapor Street	\$38.55	\$462.60
150	16,000	60	28	Sodium Vapor Flood	\$15.44	\$185.28
250	30,000	101	47	Sodium Vapor Flood	\$18.47	\$221.64
400	50,000	161	75	Sodium Vapor Flood	\$21.18	\$254.16
1,000	140,000	398	185	Sodium Vapor Flood	\$38.90	\$466.80
50	4,000	21	10	Sodium Vapor Power Bracket	\$10.54	\$126.48
100	9,500	43	20	Sodium Vapor Power Bracket	\$12.01	\$144.12
175	8,800	66	31	Metal Halide Street	\$17.65	\$211.80
250	13,500	92	43	Metal Halide Street	\$19.32	\$231.84
400	23,500	148	69	Metal Halide Street	\$20.09	\$241.08
175	8,800	66	31	Metal Halide Flood	\$20.62	\$247.44
250	13,500	92	43	Metal Halide Flood	\$22.38	\$268.56
400	23,500	148	69	Metal Halide Flood	\$22.42	\$269.04
175	8,800	66	31	Metal Halide Power Bracket	\$16.42	\$197.04
250	13,500	92	43	Metal Halide Power Bracket	\$17.55	\$210.60
400	23,500	148	69	Metal Halide Power Bracket	\$18.86	\$226.32

(1) Includes low-income portion of \$0.00150 per kWh and energy efficiency portion of \$0.00180 per kWh.

* Authorized by NHPUC Order No. 25,915 in Case No. DE 16-384, dated June 28, 2016.
 ** Authorized by NHPUC Order No. 25,799 in Case No. DE 15-244, dated July 23, 2015
 *** Authorized by NHPUC Order No. 25,498 in Case No. DE 13-084, dated April 25, 2013
 **** Authorized by NHPUC Order No. 24,903 in Case No. DE 08-097, dated September 30, 2008

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

Thirty-Eighth~~Seventh~~ Revised Page 6
 Superseding Thirty-Seventh~~Sixth~~ Revised Page 6

**SUMMARY OF LOW-INCOME
 ELECTRIC ASSISTANCE PROGRAM DISCOUNTS**

Low-Income Electric Assistance Program (LI-EAP) Discounts for Eligible Customers

Tier	Percentage of Federal Poverty Guidelines	Discount (5)	Blocks	LI-EAP discount Delivery Only; Excludes Supply	LI-EAP discount Delivery Only; Excludes Supply	LI-EAP discount Fixed Default Service Supply Only	LI-EAP discount Variable Default Service Supply Only							
				Jul 2016 - Nov 2016 (1)	Aug 2016 - Nov 2016 (1)	Jul 2016 - Nov 2016 (2) Aug 2016 - Nov 2016 (2)	Jul-16 (3)	Aug-16 (3)	Sep-16 (3)	Oct-16 (3)	Nov-16 (3)			
1 (4)	N/A	N/A												
2	151 - 200	8%	Customer Charge	(\$0.82)	(\$0.82)									
			First 250 kWh	(\$0.00504)	(\$0.00502)	(\$0.00478)	(\$0.00525)	(\$0.00482)	(\$0.00442)	(\$0.00454)	(\$0.00496)			
			Next 500 kWh	(\$0.00544)	(\$0.00542)	(\$0.00478)	(\$0.00525)	(\$0.00482)	(\$0.00442)	(\$0.00454)	(\$0.00496)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
3	126 - 150	22%	Customer Charge	(\$2.26)	(\$2.26)									
			First 250 kWh	(\$0.01387)	(\$0.01382)	(\$0.01315)	(\$0.01443)	(\$0.01325)	(\$0.01217)	(\$0.01249)	(\$0.01363)			
			Next 500 kWh	(\$0.01497)	(\$0.01492)	(\$0.01315)	(\$0.01443)	(\$0.01325)	(\$0.01217)	(\$0.01249)	(\$0.01363)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
4	101 - 125	36%	Customer Charge	(\$3.70)	(\$3.70)									
			First 250 kWh	(\$0.02269)	(\$0.02261)	(\$0.02152)	(\$0.02362)	(\$0.02168)	(\$0.01991)	(\$0.02044)	(\$0.02230)			
			Next 500 kWh	(\$0.02449)	(\$0.02441)	(\$0.02152)	(\$0.02362)	(\$0.02168)	(\$0.01991)	(\$0.02044)	(\$0.02230)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
5	76 - 100	52%	Customer Charge	(\$5.34)	(\$5.34)									
			First 250 kWh	(\$0.03278)	(\$0.03266)	(\$0.03109)	(\$0.03411)	(\$0.03131)	(\$0.02876)	(\$0.02952)	(\$0.03221)			
			Next 500 kWh	(\$0.03538)	(\$0.03526)	(\$0.03109)	(\$0.03411)	(\$0.03131)	(\$0.02876)	(\$0.02952)	(\$0.03221)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			
6	0 - 75	76%	Customer Charge	(\$7.81)	(\$7.81)									
			First 250 kWh	(\$0.04790)	(\$0.04773)	(\$0.04543)	(\$0.04986)	(\$0.04577)	(\$0.04203)	(\$0.04315)	(\$0.04708)			
			Next 500 kWh	(\$0.05170)	(\$0.05153)	(\$0.04543)	(\$0.04986)	(\$0.04577)	(\$0.04203)	(\$0.04315)	(\$0.04708)			
			Excess 750 kWh	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000			

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- (1) Discount calculated using total utility charges from Page 4 (excluding the Electricity Consumption Tax) multiplied by the appropriate discount. These figures exclude default service and are applicable to customers choosing a Competitive Supplier or self-supply. Customers taking default service from the Company would receive these discounts plus the appropriate discount applicable to default service supply.
- (2) Discount calculated using Non-G1 class (Residential) Fixed Default Service Rate multiplied by the appropriate discount. These figures exclude delivery.
- (3) Discount calculated using Non-G1 class (Residential) Variable Default Service Rate, for the applicable month, multiplied by the appropriate discount. These figures exclude delivery.
- (4) Tier 1 was eliminated by Order No. 25,200 in DE 10-192 dated March 4, 2011.
- (5) Discounts effective July 1, 2016 in accordance with Order No. 25-901 in DE 14-078.

Authorized by NHPUC Order No. 25,904 in Case No. DE 14-078, dated May 13, 2016
 Authorized by NHPUC Order No. 25,915 in Case No. DE 16-384, dated June 28, 2016.

Issued: July 12~~June 30~~, 2016
 Effective: August~~July~~ 1, 2016

Issued By: Mark H. Collin
 Sr. Vice President

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

Residential Rate D 634 kWh Bill

	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$10.27	\$10.27	\$0.00	\$10.27	\$10.27	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge							
First 250 kWh	\$0.03603	\$0.03603	\$0.00000	\$9.01	\$9.01	\$0.00	0.0%
Excess 250 kWh	\$0.04103	\$0.04103	\$0.00000	\$15.76	\$15.76	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$13.51	\$13.59	\$0.08	0.1%
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)	\$0.11	(\$0.11)	(\$0.23)	(0.3%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.40	\$1.40	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.09	\$2.09	\$0.00	0.0%
Default Service Charge	<u>\$0.05978</u>	<u>\$0.05978</u>	<u>\$0.00000</u>	<u>\$37.90</u>	<u>\$37.90</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.12281	\$0.12258	(\$0.00023)				
Excess 250 kWh	\$0.12781	\$0.12758	(\$0.00023)				
Total Bill				\$90.05	\$89.91	(\$0.15)	(0.2%)

Regular General G2 Demand, 11 kW, 2,800 kWh Typical Bill

	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$18.41	\$18.41	\$0.00	\$18.41	\$18.41	\$0.00	0.0%
	<u>All kW</u>	<u>All kW</u>					
Distribution Charge	\$10.31	\$10.31	\$0.00	\$113.41	\$113.41	\$0.00	0.0%
Stranded Cost Charge	<u>\$0.04</u>	<u>(\$0.04)</u>	<u>(\$0.08)</u>	<u>\$0.44</u>	<u>(\$0.44)</u>	<u>(\$0.88)</u>	<u>(0.2%)</u>
Total	\$10.35	\$10.27	(\$0.08)	\$113.85	\$112.97	(\$0.88)	(0.2%)
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00199	\$0.00199	\$0.00000	\$5.57	\$5.57	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$59.67	\$60.03	\$0.36	0.1%
Stranded Cost Charge	\$0.00004	(\$0.00004)	(\$0.00008)	\$0.11	(\$0.11)	(\$0.22)	(0.1%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$6.19	\$6.19	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$9.24	\$9.24	\$0.00	0.0%
Default Service Charge	<u>\$0.05860</u>	<u>\$0.05860</u>	<u>\$0.00000</u>	<u>\$164.08</u>	<u>\$164.08</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.08745	\$0.08750	\$0.00005	\$244.86	\$245.00	\$0.14	0.0%
Total Bill				\$377.12	\$376.38	(\$0.74)	(0.2%)

* Impacts do not include the Electricity Consumption Tax.

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

Regular General G2 Quick Recovery Water Heating and Space Heating 1,620 kWh Typical Bill							
	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$6.25	\$6.25	\$0.00	\$6.25	\$6.25	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03272	\$0.03272	\$0.00000	\$53.01	\$53.01	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$34.52	\$34.73	\$0.21	0.1%
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)	\$0.29	(\$0.29)	(\$0.58)	(0.3%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$3.58	\$3.58	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$5.35	\$5.35	\$0.00	0.0%
Default Service Charge	<u>\$0.05860</u>	<u>\$0.05860</u>	<u>\$0.00000</u>	<u>\$94.93</u>	<u>\$94.93</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.11832	\$0.11809	(\$0.00023)	\$191.68	\$191.31	(\$0.37)	(0.2%)
Total Bill				\$197.93	\$197.56	(\$0.37)	(0.2%)

Regular General G2 kWh Meter 125 kWh Typical Bill							
	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$13.94	\$13.94	\$0.00	\$13.94	\$13.94	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03410	\$0.03410	\$0.00000	\$4.26	\$4.26	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$2.66	\$2.68	\$0.02	0.1%
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)	\$0.02	(\$0.02)	(\$0.05)	(0.2%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$0.28	\$0.28	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$0.41	\$0.41	\$0.00	0.0%
Default Service Charge	<u>\$0.05860</u>	<u>\$0.05860</u>	<u>\$0.00000</u>	<u>\$7.33</u>	<u>\$7.33</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.11970	\$0.11947	(\$0.00023)	\$14.96	\$14.93	(\$0.03)	(0.1%)
Total Bill				\$28.90	\$28.87	(\$0.03)	(0.1%)

* Impacts do not include the Electricity Consumption Tax.

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

<u>Large General - G1 550 kVa, 200,000 kWh Typical Bill</u>							
	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill*</u>	<u>As Revised Bill*</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$97.16	\$97.16	\$0.00	\$97.16	\$97.16	\$0.00	0.0%
	<u>All kVa</u>	<u>All kVa</u>					
Distribution Charge	\$6.95	\$6.95	\$0.00	\$3,822.50	\$3,822.50	\$0.00	0.0%
Stranded Cost Charge	<u>\$0.05</u>	<u>(\$0.05)</u>	<u>(\$0.10)</u>	<u>\$27.50</u>	<u>(\$27.50)</u>	<u>(\$55.00)</u>	<u>(0.3%)</u>
Total	\$7.00	\$6.90	(\$0.10)	\$3,850.00	\$3,795.00	(\$55.00)	(0.3%)
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00199	\$0.00199	\$0.00000	\$398.00	\$398.00	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$4,262.00	\$4,288.00	\$26.00	0.2%
Stranded Cost Charge	\$0.00005	(\$0.00005)	(\$0.00010)	\$10.00	(\$10.00)	(\$20.00)	(0.1%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$442.00	\$442.00	\$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>\$0.03674</u>	<u>\$0.03674</u>	<u>\$0.00000</u>	<u>\$7,348.00</u>	<u>\$7,348.00</u>	<u>\$0.00</u>	<u>0.0%</u>
Total	\$0.06560	\$0.06563	\$0.00003	\$13,120.00	\$13,126.00	\$6.00	0.0%
Total Bill				\$17,067.16	\$17,018.16	(\$49.00)	(0.3%)

* Impacts do not include the Electricity Consumption Tax.

** Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the rate is unchanged.

Unitil Energy Systems, Inc.
Typical Bill Impacts for Residential Rate Class based on Mean and Median Usage

Residential Rate D 634 kWh Bill - Mean Use*

	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$10.27	\$10.27	\$0.00	\$10.27	\$10.27	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge							
First 250 kWh	\$0.03603	\$0.03603	\$0.00000	\$9.01	\$9.01	\$0.00	0.0%
Excess 250 kWh	\$0.04103	\$0.04103	\$0.00000	\$15.76	\$15.76	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$13.51	\$13.59	\$0.08	0.1%
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)	\$0.11	(\$0.11)	(\$0.23)	(0.3%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.40	\$1.40	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.09	\$2.09	\$0.00	0.0%
Default Service Charge	<u>\$0.05978</u>	<u>\$0.05978</u>	<u>\$0.00000</u>	<u>\$37.90</u>	<u>\$37.90</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.12281	\$0.12258	(\$0.00023)				
Excess 250 kWh	\$0.12781	\$0.12758	(\$0.00023)				
Total Bill				\$90.05	\$89.91	(\$0.15)	(0.2%)

Residential Rate D 521 kWh Bill - Median Use*

	7/1/2016	8/1/2016					%
<u>Rate Components</u>	<u>Current Rate</u>	<u>As Revised</u>	<u>Difference</u>	<u>Current Bill**</u>	<u>As Revised Bill**</u>	<u>Difference</u>	<u>Difference to Total Bill</u>
Customer Charge	\$10.27	\$10.27	\$0.00	\$10.27	\$10.27	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge							
First 250 kWh	\$0.03603	\$0.03603	\$0.00000	\$9.01	\$9.01	\$0.00	0.0%
Excess 250 kWh	\$0.04103	\$0.04103	\$0.00000	\$11.12	\$11.12	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013	\$11.10	\$11.17	\$0.07	0.1%
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)	\$0.09	(\$0.09)	(\$0.19)	(0.2%)
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.15	\$1.15	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.72	\$1.72	\$0.00	0.0%
Default Service Charge	<u>\$0.05978</u>	<u>\$0.05978</u>	<u>\$0.00000</u>	<u>\$31.15</u>	<u>\$31.15</u>	<u>\$0.00</u>	<u>0.0%</u>
First 250 kWh	\$0.12281	\$0.12258	(\$0.00023)				
Excess 250 kWh	\$0.12781	\$0.12758	(\$0.00023)				
Total Bill				\$75.61	\$75.49	(\$0.12)	(0.2%)

* Based on billing period January 2015 through December 2015.

** Impacts do not include the Electricity Consumption Tax.

Unitil Energy Systems, Inc.
Average Class Bill Impacts
Due to Proposed Rate Changes Effective August 1, 2016

(A) Class of Service	(B) Annual Number of Customers (luminaires for Outdoor Lighting)	(C) Annual kWh Sales	(D) Annual kW / kVA Sales	(E) Proposed SCC Change \$	(F) Proposed EDC Change \$	(G) Estimated Annual Revenue \$ Under Present Rates	(H) Estimated Annual Revenue \$ Under Proposed Rates	(I) Proposed Net Change Revenue \$	(J) % Change Net SCC & EDC Revenue
Residential	763,694	480,638,599	n/a	(\$173,030)	\$62,483	\$68,409,512	\$68,298,965	(\$110,547)	(0.2%)
General Service	129,249	340,275,469	1,301,458	(\$122,499)	\$44,236	\$45,726,908	\$45,648,645	(\$78,263)	(0.2%)
Large General Service	1,814	347,650,754	989,158	(\$125,154)	\$45,195	\$29,728,179	\$29,648,220	(\$79,960)	(0.3%)
Outdoor Lighting	115,819	8,988,739	n/a	(\$3,236)	\$1,169	\$2,525,780	\$2,523,713	(\$2,067)	(0.1%)
Total	1,010,576	1,177,553,561		(\$423,919)	\$153,082	\$146,390,380	\$146,119,542	(\$270,837)	(0.2%)

(B), (C), (D) Test year billing determinants in DE 10-055

(E) and (F) Difference in proposed rate and current rate, times the billing determinants shown in Column (C).

(G) Based on current rates times billing determinants shown in Columns (B), (C) and (D).

(H) Sum of Columns (E) through (G)

(I) Column (H) minus Column (G)

(J) Column (E) + Column (F) divided by Column (G)

Unitil Energy Systems, Inc.
Typical Bill Impacts - July 1, 2016 versus August 1, 2016
Impacts do NOT include the Electricity Consumption Tax
Impact on D Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 7/1/2016</u>	<u>Total Bill Using Rates 8/1/2016</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$25.62	\$25.59	(\$0.03)	(0.1%)
250	\$40.97	\$40.92	(\$0.06)	(0.1%)
500	\$72.93	\$72.81	(\$0.11)	(0.2%)
600	\$85.71	\$85.57	(\$0.14)	(0.2%)
750	\$104.88	\$104.71	(\$0.17)	(0.2%)
1,000	\$136.83	\$136.60	(\$0.23)	(0.2%)
1,250	\$168.78	\$168.50	(\$0.29)	(0.2%)
1,500	\$200.74	\$200.39	(\$0.34)	(0.2%)
2,000	\$264.64	\$264.18	(\$0.46)	(0.2%)
3,500	\$456.36	\$455.55	(\$0.80)	(0.2%)
5,000	\$648.07	\$646.92	(\$1.15)	(0.2%)

	<u>Rates - Effective July 1, 2016</u>	<u>Rates - Proposed August 1, 2016</u>	<u>Difference</u>
Customer Charge	\$10.27	\$10.27	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge: First 250 kWh	\$0.03603	\$0.03603	\$0.00000
Excess 250 kWh	\$0.04103	\$0.04103	\$0.00000
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013
Stranded Cost Charge	\$0.00018	(\$0.00018)	(\$0.00036)
Storm Recovery Adjustment Factor	\$0.00221	\$0.00221	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge	<u>\$0.05978</u>	<u>\$0.05978</u>	<u>\$0.00000</u>
TOTAL First 250 kWh	\$0.12281	\$0.12258	(\$0.00023)
Excess 250 kWh	\$0.12781	\$0.12758	(\$0.00023)

Unitil Energy Systems, Inc. Typical Bill Impacts - July 1, 2016 versus August 1, 2016 Impacts do NOT include the Electricity Consumption Tax Impact on G2 kWh Meter Rate Customers																																												
Average Monthly kWh	Total Bill Using Rates 7/1/2016	Total Bill Using Rates 8/1/2016	Total Difference	% Total Difference																																								
15	\$15.74	\$15.73	(\$0.00)	(0.0%)																																								
75	\$22.92	\$22.90	(\$0.02)	(0.1%)																																								
150	\$31.90	\$31.86	(\$0.03)	(0.1%)																																								
250	\$43.87	\$43.81	(\$0.06)	(0.1%)																																								
350	\$55.84	\$55.75	(\$0.08)	(0.1%)																																								
450	\$67.81	\$67.70	(\$0.10)	(0.2%)																																								
550	\$79.78	\$79.65	(\$0.13)	(0.2%)																																								
650	\$91.75	\$91.60	(\$0.15)	(0.2%)																																								
750	\$103.72	\$103.54	(\$0.17)	(0.2%)																																								
900	\$121.67	\$121.46	(\$0.21)	(0.2%)																																								
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Unitil Energy Systems, Inc. Typical Bill Impacts - July 1, 2016 versus August 1, 2016 Impacts do NOT include the Electricity Consumption Tax Impact on G2 QRWH and SH Rate Customers																																												
Average kWh	Total Bill Using Rates 7/1/2016	Total Bill Using Rates 8/1/2016	Total Difference	% Total Difference																																								
100	\$18.08	\$18.06	(\$0.02)	(0.1%)																																								
200	\$29.91	\$29.87	(\$0.05)	(0.2%)																																								
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400	\$53.58	\$53.49	(\$0.09)	(0.2%)																																								
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2,500	\$302.05	\$301.48	(\$0.57)	(0.2%)																																								
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Unitil Energy Systems, Inc. Typical Bill Impacts - July 1, 2016 versus August 1, 2016 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 7/1/2016	Total Bill Using Rates 8/1/2016	Total Difference	% Total Difference
25.0%	200	36,500	\$3,891.56	\$3,872.66	(\$18.91)	(0.5%)
25.0%	400	73,000	\$7,685.96	\$7,648.15	(\$37.81)	(0.5%)
25.0%	600	109,500	\$11,480.36	\$11,423.65	(\$56.72)	(0.5%)
25.0%	800	146,000	\$15,274.76	\$15,199.14	(\$75.62)	(0.5%)
25.0%	1,000	182,500	\$19,069.16	\$18,974.64	(\$94.53)	(0.5%)
25.0%	1,500	273,750	\$28,555.16	\$28,413.37	(\$141.79)	(0.5%)
25.0%	2,000	365,000	\$38,041.16	\$37,852.11	(\$189.05)	(0.5%)
25.0%	2,500	456,250	\$47,527.16	\$47,290.85	(\$236.31)	(0.5%)
25.0%	3,000	547,500	\$57,013.16	\$56,729.59	(\$283.58)	(0.5%)
40.0%	200	58,400	\$5,328.20	\$5,309.95	(\$18.25)	(0.3%)
40.0%	400	116,800	\$10,559.24	\$10,522.74	(\$36.50)	(0.3%)
40.0%	600	175,200	\$15,790.28	\$15,735.54	(\$54.74)	(0.3%)
40.0%	800	233,600	\$21,021.32	\$20,948.33	(\$72.99)	(0.3%)
40.0%	1,000	292,000	\$26,252.36	\$26,161.12	(\$91.24)	(0.3%)
40.0%	1,500	438,000	\$39,329.96	\$39,193.10	(\$136.86)	(0.3%)
40.0%	2,000	584,000	\$52,407.56	\$52,225.08	(\$182.48)	(0.3%)
40.0%	2,500	730,000	\$65,485.16	\$65,257.06	(\$228.10)	(0.3%)
40.0%	3,000	876,000	\$78,562.76	\$78,289.04	(\$273.72)	(0.3%)
57.0%	200	83,220	\$6,956.39	\$6,938.89	(\$17.50)	(0.3%)
57.0%	400	166,440	\$13,815.62	\$13,780.62	(\$35.01)	(0.3%)
57.0%	600	249,660	\$20,674.86	\$20,622.35	(\$52.51)	(0.3%)
57.0%	800	332,880	\$27,534.09	\$27,464.07	(\$70.01)	(0.3%)
57.0%	1,000	416,100	\$34,393.32	\$34,305.80	(\$87.52)	(0.3%)
57.0%	1,500	624,150	\$51,541.40	\$51,410.12	(\$131.28)	(0.3%)
57.0%	2,000	832,200	\$68,689.48	\$68,514.45	(\$175.03)	(0.3%)
57.0%	2,500	1,040,250	\$85,837.56	\$85,618.77	(\$218.79)	(0.3%)
57.0%	3,000	1,248,300	\$102,985.64	\$102,723.09	(\$262.55)	(0.3%)
71.0%	200	103,660	\$8,297.26	\$8,280.37	(\$16.89)	(0.2%)
71.0%	400	207,320	\$16,497.35	\$16,463.57	(\$33.78)	(0.2%)
71.0%	600	310,980	\$24,697.45	\$24,646.78	(\$50.67)	(0.2%)
71.0%	800	414,640	\$32,897.54	\$32,829.98	(\$67.56)	(0.2%)
71.0%	1,000	518,300	\$41,097.64	\$41,013.19	(\$84.45)	(0.2%)
71.0%	1,500	777,450	\$61,597.88	\$61,471.20	(\$126.68)	(0.2%)
71.0%	2,000	1,036,600	\$82,098.12	\$81,929.22	(\$168.90)	(0.2%)
71.0%	2,500	1,295,750	\$102,598.36	\$102,387.23	(\$211.13)	(0.2%)
71.0%	3,000	1,554,900	\$123,098.60	\$122,845.25	(\$253.35)	(0.2%)

	Rates - Effective July 1, 2016	Rates - Proposed August 1, 2016	Difference
Customer Charge	\$97.16	\$97.16	\$0.00
	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Distribution Charge	\$6.95	\$6.95	\$0.00
Stranded Cost Charge	\$0.05	(\$0.05)	(\$0.10)
TOTAL	\$7.00	\$6.90	(\$0.10)
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00199	\$0.00199	\$0.00000
External Delivery Charge	\$0.02131	\$0.02144	\$0.00013
Stranded Cost Charge	\$0.00005	(\$0.00005)	(\$0.00010)
Storm Recovery Adjustment Factor	\$0.00221	\$0.00221	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge*	\$0.03674	\$0.03674	\$0.00000
TOTAL	\$0.06560	\$0.06563	\$0.00003

* Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the rate is unchanged.

Unitil Energy Systems, Inc. Typical Bill Impacts - July 1, 2016 versus August 1, 2016 Impacts do NOT include the Electricity Consumption Tax Impact on OL Rate Customers *								
	Nominal Watts	Lumens	Type	Average Monthly kWh	Total Bill Using Rates 7/1/2016	Total Bill Using Rates 8/1/2016	Total Difference	% Total Difference
<u>Mercury Vapor:</u>								
1	100	3,500	ST	40	\$14.78	\$14.77	(\$0.01)	(0.1%)
2	175	7,000	ST	67	\$19.52	\$19.50	(\$0.02)	(0.1%)
3	250	11,000	ST	95	\$23.99	\$23.97	(\$0.02)	(0.1%)
4	400	20,000	ST	154	\$32.43	\$32.39	(\$0.04)	(0.1%)
5	1,000	60,000	ST	388	\$73.04	\$72.96	(\$0.09)	(0.1%)
6	250	11,000	FL	95	\$25.11	\$25.09	(\$0.02)	(0.1%)
7	400	20,000	FL	154	\$33.87	\$33.83	(\$0.04)	(0.1%)
8	1,000	60,000	FL	388	\$68.72	\$68.64	(\$0.09)	(0.1%)
9	100	3,500	PB	40	\$14.90	\$14.89	(\$0.01)	(0.1%)
10	175	7,000	PB	67	\$18.68	\$18.66	(\$0.02)	(0.1%)
<u>High Pressure Sodium:</u>								
11	50	4,000	ST	21	\$13.35	\$13.34	(\$0.00)	(0.0%)
12	100	9,500	ST	43	\$16.91	\$16.90	(\$0.01)	(0.1%)
13	150	16,000	ST	60	\$18.46	\$18.44	(\$0.01)	(0.1%)
14	250	30,000	ST	101	\$25.76	\$25.73	(\$0.02)	(0.1%)
15	400	50,000	ST	161	\$35.80	\$35.76	(\$0.04)	(0.1%)
16	1,000	140,000	ST	398	\$73.41	\$73.32	(\$0.09)	(0.1%)
17	150	16,000	FL	60	\$20.70	\$20.68	(\$0.01)	(0.1%)
18	250	30,000	FL	101	\$27.32	\$27.29	(\$0.02)	(0.1%)
19	400	50,000	FL	161	\$35.28	\$35.24	(\$0.04)	(0.1%)
20	1,000	140,000	FL	398	\$73.76	\$73.67	(\$0.09)	(0.1%)
21	50	4,000	PB	21	\$12.38	\$12.37	(\$0.00)	(0.0%)
22	100	9,500	PB	43	\$15.78	\$15.77	(\$0.01)	(0.1%)
<u>Metal Halide:</u>								
23	175	8,800	ST	66	\$23.43	\$23.42	(\$0.02)	(0.1%)
24	250	13,500	ST	92	\$27.38	\$27.36	(\$0.02)	(0.1%)
25	400	23,500	ST	148	\$33.05	\$33.02	(\$0.03)	(0.1%)
26	175	8,800	FL	66	\$26.40	\$26.39	(\$0.02)	(0.1%)
27	250	13,500	FL	92	\$30.44	\$30.42	(\$0.02)	(0.1%)
28	400	23,500	FL	148	\$35.38	\$35.35	(\$0.03)	(0.1%)
29	175	8,800	PB	66	\$22.20	\$22.19	(\$0.02)	(0.1%)
30	250	13,500	PB	92	\$25.61	\$25.59	(\$0.02)	(0.1%)
31	400	23,500	PB	148	\$31.82	\$31.79	(\$0.03)	(0.1%)
Luminaire Charges For Year Round Service:								
Rates - Effective July 1, 2016								
		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		
Customer Charge	\$0.00	1	\$11.28	11	\$11.51	23	\$17.65	
		2	\$13.65	12	\$13.14	24	\$19.32	
	<u>All kWh</u>	3	\$15.67	13	\$13.20	25	\$20.09	
Distribution Charge	\$0.00199	4	\$18.94	14	\$16.91	26	\$20.62	
External Delivery Charge	\$0.02131	5	\$39.06	15	\$21.70	27	\$22.38	
Stranded Cost Charge	\$0.00018	6	\$16.79	16	\$38.55	28	\$22.42	
Storm Recovery Adj. Factor	\$0.00221	7	\$20.38	17	\$15.44	29	\$16.42	
System Benefits Charge	\$0.00330	8	\$34.74	18	\$18.47	30	\$17.55	
Default Service Charge	<u>\$0.05860</u>	9	\$11.40	19	\$21.18	31	\$18.86	
		10	\$12.81	20	\$38.90			
TOTAL	\$0.08759			21	\$10.54			
				22	\$12.01			
Rates - Proposed August 1, 2016								
		Mercury Vapor Rate/Mo.		Sodium Vapor Rate/Mo.		Metal Halide Rate/Mo.		
Customer Charge	\$0.00	1	\$11.28	11	\$11.51	23	\$17.65	
		2	\$13.65	12	\$13.14	24	\$19.32	
	<u>All kWh</u>	3	\$15.67	13	\$13.20	25	\$20.09	
Distribution Charge	\$0.00199	4	\$18.94	14	\$16.91	26	\$20.62	
External Delivery Charge	\$0.02144	5	\$39.06	15	\$21.70	27	\$22.38	
Stranded Cost Charge	(\$0.00018)	6	\$16.79	16	\$38.55	28	\$22.42	
Storm Recovery Adj. Factor	\$0.00221	7	\$20.38	17	\$15.44	29	\$16.42	
System Benefits Charge	\$0.00330	8	\$34.74	18	\$18.47	30	\$17.55	
Default Service Charge	<u>\$0.05860</u>	9	\$11.40	19	\$21.18	31	\$18.86	
		10	\$12.81	20	\$38.90			
TOTAL	\$0.08736			21	\$10.54			
				22	\$12.01			
	Difference	Mercury Vapor-Difference		Sodium Vapor-Difference		Metal Halide-Difference		
Customer Charge	\$0.00	1	\$0.00	11	\$0.00	23	\$0.00	
		2	\$0.00	12	\$0.00	24	\$0.00	
	<u>All kWh</u>	3	\$0.00	13	\$0.00	25	\$0.00	
Distribution Charge	\$0.00000	4	\$0.00	14	\$0.00	26	\$0.00	
External Delivery Charge	\$0.00013	5	\$0.00	15	\$0.00	27	\$0.00	
Stranded Cost Charge	(\$0.00036)	6	\$0.00	16	\$0.00	28	\$0.00	
Storm Recovery Adj. Factor	\$0.00000	7	\$0.00	17	\$0.00	29	\$0.00	
System Benefits Charge	\$0.00000	8	\$0.00	18	\$0.00	30	\$0.00	
Default Service Charge	<u>\$0.00000</u>	9	\$0.00	19	\$0.00	31	\$0.00	
		10	\$0.00	20	\$0.00			
TOTAL	(\$0.00023)			21	\$0.00			
				22	\$0.00			

* Luminaire charges based on All-Night Service option.

