CALCULATION OF THE DEFAULT SERVICE CHARGE

	Non-G1 Class Default Service:							
		Dec-15	<u>Jan-16</u>	<u>Feb-16</u>	<u>Mar-16</u>	<u>Apr-16</u>	<u>May-16</u>	<u>Total</u>
	Power Supply Charge							
	Desidential Chara			As shown o	on Schedule LS	M-2, Page 1		
1	Residential Class Reconciliation	(\$22,771)	(\$23,994)	(\$22,645)	(\$20,346)	(\$18,419)	(\$17,130)	(\$125,304)
2	Total Costs	\$3,480,619	\$4,594,771	\$4,285,670	\$3,015,924	\$2,088,170	\$1,620,290	\$19,085,444
3	Reconciliation plus Total Costs (L.1 + L.2)	\$3,457,848	\$4,570,777	\$4,263,024	\$2,995,578	\$2,069,751	\$1,603,160	\$18,960,140
4	kWh Purchases	41,166,605	43,378,451	40,940,235	36,783,642	33,298,924	30,968,524	226,536,380
5	Total, Before Losses (L.3 / L.4)	\$0.08400	\$0.10537	\$0.10413	\$0.08144	\$0.06216	\$0.05177	\$0.08370
6	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
7	Total Retail Rate - Residential Variable Power Supply Charge $(L.5 * (1+L.6))$ Total Retail Rate - Residential Fixed Power Supply Charge $(L.5 * (1+L.6))$	\$0.08937	\$0.11211	\$0.11079	\$0.08665	\$0.06613	\$0.05508	\$0.08905
9	G2 and OL Class Reconciliation	(\$8,933)	(\$9,194)	(\$9,186)	(\$9,169)	(\$8,602)	(\$8,287)	(\$53,370)
10	Total Costs	\$1,367,153	\$1,743,727	\$1,713,255	\$1,337,392	\$952,131	\$763,851	\$7,877,509
11	Reconciliation plus Total Costs (L.9 + L.10)	\$1,358,220	\$1,734,533	\$1,704,069	\$1,328,223	\$943,529	\$755,564	\$7,824,139
12	kWh Purchases	16,152,651	16,623,879	16,609,176	<u>16,578,365</u>	15,552,653	14,983,185	<u>96,499,908</u>
13	Total, Before Losses (L.11 / L.12)	\$0.08409	\$0.10434	\$0.10260	\$0.08012	\$0.06067	\$0.05043	\$0.08108
14	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
	Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * (1+L.14)) Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 * (1+L.14))	\$0.08947	\$0.11102	\$0.10916	\$0.08525	\$0.06455	\$0.05365	\$0.08627

Renewable Portfolio Standard (RPS) Charge	As shown on Schedule LSM-3, Page 1									
17 Reconciliation	(\$90,817)	(\$95,068)	(\$91,182)	(\$84,547)	(\$77,401)	(\$72,806)	(\$511,822)			
18 Total Costs	\$194,365	<u>\$417,212</u>	\$400,160	<u>\$371,049</u>	\$339,688	\$319,525	<u>\$2,042,000</u>			
19 Reconciliation plus Total Costs (L.17 + L.18)	\$103,548	\$322,144	\$308,978	\$286,502	\$262,287	\$246,719	\$1,530,178			
20 kWh Purchases	57,319,256	60,002,329	57,549,411	53,362,007	48,851,576	45,951,709	323,036,288			
21 Total, Before Losses (L.19 / L.20)	\$0.00181	\$0.00537	\$0.00537	\$0.00537	\$0.00537	\$0.00537	\$0.00474			
22 Losses	<u>6.40%</u>	6.40%	<u>6.40%</u>	6.40%	6.40%	<u>6.40%</u>	<u>6.40%</u>			
 23 Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) 24 Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22)) 	\$0.00192	\$0.00571	\$0.00571	\$0.00571	\$0.00571	\$0.00571	\$0.00504			

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service Charge (L.7 + L.23)	\$0.09129	\$0.11782	\$0.11650	\$0.09236	\$0.07184	\$0.06079	
26	Total Retail Rate - Residential Fixed Default Service Charge (L.8+L.24)							\$0.09409
	Total Retail Rate - G2 and OL Variable Default Service							
27	Charge (L.15 + L.23)	\$0.09139	\$0.11673	\$0.11487	\$0.09096	\$0.07026	\$0.05936	
28	Total Retail Rate - G2 and OL Fixed Default Service Charge (L.16+L.24)							\$0.09131

CALCULATION OF THE DEFAULT SERVICE CHARGE

		Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	<u>Total</u>
	Power Supply Charge							
	Residential Class							
4	Reconciliation	(\$18,864)	(\$22,600)	(\$23,102)	(\$17,510)	(\$16,730)	(\$17,886)	(\$116,693)
2	Total Costs	\$2,407,818	\$3,212,457	\$ 2,930,915	\$2,085,067	\$2,062,232	\$2,933,915	\$15,632,402
3	Reconciliation plus Total Costs (L.1 + L.2)	\$2,388,95 4	\$3,189,856	\$2,907,812	\$2,067,556	\$2,045,502	\$2,916,029	\$15,515,709
4	kWh Purchases	<u>39,812,701</u>	<u>47,698,841</u>	<u>48,758,244</u>	<u>36,955,383</u>	<u>35,309,306</u>	<u>37,749,093</u>	<u>246,283,568</u>
5	Total, Before Losses (L.3 / L.4)	\$0.06000	\$0.06687	\$0.05964	\$0.05595	\$0.05793	\$0.07725	\$0.06300
6	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
7	Total Retail Rate - Residential Variable Power Supply Charge (L.5 * (1+L.6)) Total Retail Rate - Residential Fixed Power Supply Charge (L.5 * (1+L.6))	\$0.06385	\$0.07115	\$0.06345	\$ 0.05953	\$ 0.06164	\$0.08219	\$0.06703
9	<u>G2 and OL Class</u> Reconciliation	(\$9,261)	(\$11,431)	(\$11,298)	(\$9,897)	(\$8,395)	(\$8,371)	(\$58,653)
10	Total Costs	\$1,164,171	\$1,654,291	\$1,455,151	\$1,217,293	\$1,045,863	\$1,403,207	\$7,939,975
++	Reconciliation plus Total Costs (L.9 + L.10)	\$1,154,910	\$1,642,860	\$1,443,853	\$1,207,396	\$1,037,468	\$1,394,836	\$7,881,322
12	kWh Purchases	<u>19,543,351</u>	<u>24,122,501</u>	23,842,757	20,886,551	<u>17,716,054</u>	17,665,628	<u>123,776,842</u>
13	Total, Before Losses (L.11 / L.12)	\$0.05909	\$0.06810	\$0.06056	\$0.05781	\$0.05856	\$0.07896	\$0.06367
14	Losses	<u>6.40%</u>	6.40%	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
	Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * (1+L.14)) Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 *	\$0.06288	\$0.07246	\$0.06 443	\$0.06151	\$0.06231	\$0.08401	
16	(1+L.14))							\$0.06775

Renewable Portfolio Standard (RPS) Charge 17 Reconciliation

17	Reconciliation	(\$80,565)	(\$97,484)	(\$98,543)	(\$78,510)	(\$71,972)	(\$75,215)	(\$502,289)
18	Total Costs	<u>\$202,007</u>	<u>\$244,432</u>	<u>\$247,084</u>	<u>\$196,859</u>	<u>\$180,463</u>	<u>\$188,592</u>	<u>\$1,259,437</u>
19	Reconciliation plus Total Costs (L.17 + L.18)	\$121,442	\$146,948	\$148,542	\$118,349	\$108,490	\$113,377	\$757,148
20	kWh Purchases	<u>59,356,052</u>	<u>71,821,342</u>	<u>72,601,001</u>	<u>57,841,934</u>	<u>53,025,360</u>	<u>55,414,721</u>	<u>370,060,410</u>
21	Total, Before Losses (L.19 / L.20)	\$0.00205	\$0.00205	\$0.00205	\$0.00205	\$0.00205	\$0.00205	\$0.00205
22	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
23 24	Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22))	\$0.00218	\$0.00218	\$0.00218	\$0.00218	\$0.00218	\$0.00218	\$0.00218

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service- Charge (L.7 + L.23)	\$0.06603	\$0.07333	\$0.06563	\$0.06171	\$0.06382	\$0.08437	
26	Total Retail Rate - Residential Fixed Default Service Charge (L.8+L.24)							\$0.06921
27	Total Retail Rate - G2 and OL Variable Default Service- Charge (L.15 + L.23)	\$0.06506	\$0.07464	\$0.06661	\$0.06369	\$0.06449	\$0.08619	
28	Total Retail Rate - G2 and OL Fixed Default Service Charge (L.16+L.24)							\$0.06993

Authorized by NHPUC Order No. 25,777 in Case No. DE 15-079, dated April 10, 2015

CALCULATION OF THE DEFAULT SERVICE CHARGE

G1 Class Default Service:								As shown on Schedule LSM-4, Page 1						
	Jun-15	Jul-15	Aug-15	<u>Sep-15</u>	<u>Oct-15</u>	Nov-15	Total	Dec-15	<u>Jan-16</u>	<u>Feb-16</u>	<u>Mar-16</u>	<u>Apr-16</u>	<u>May-16</u>	Total
Power Supply Charge														
1 Reconciliation							(\$238,690)							(\$217,072)
2 Total Costs excl. wholesale supplier charge							<u>\$20,265</u>							\$21,966
3 Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)							(\$218,425)							(\$195,105)
4 kWh Purchases							<u>46,592,069</u>							20,996,111
5 Total, Before Losses (L.3 / L.4)							(\$0.00469)							(\$0.00929)
6 Losses							<u>4.591%</u>							<u>4.591%</u>
7 Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6)) (2)	(\$0.00490)	(\$0.00490)	(\$0.00490)	(\$0.00490)	(\$0.00490)	(\$0.00490)	(\$0.00490)	(\$0.00972)	(\$0.00972)	(\$0.00972)	(\$0.00972)	(\$0.00972)	(\$0.00972)	(\$0.00972)
8a Wholesale Supplier Charge 8b Losses 9 Description White half on the Charge of the theory	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>		MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	MARKET <u>4.591%</u>	
8 Retail Rate - Wholesale Supplier Charge (L.8a * (1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET		MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
9 Total Retail Rate - Power Supply Charge (L.7 + L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET		MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
Renewable Portfolio Standard (RPS) Charge										As shown or	n Schedule L	SM-5, Page 1		
10 Reconciliation	(\$7,634)	(\$7,614)	(\$8,347)	(\$7,895)	(\$6,178)	(\$7,007)	(\$44,675)	(\$6,910)	(\$6,630)	(\$6,718)	(\$7,010)	(\$6,565)	(\$6,799)	(\$40,632)
11 Total Costs	<u>\$27,567</u>	<u>\$27,494</u>	<u>\$30,142</u>	<u>\$28,509</u>	<u>\$22,310</u>	<u>\$25,301</u>	<u>\$161,324</u>	\$12,319	<u>\$24,237</u>	<u>\$24,558</u>	\$25,625	\$23,999	\$24,856	<u>\$135,593</u>
12 Reconciliation plus Total Costs (L.10+ L.11)	\$19,933	\$19,880	\$21,795	\$20,614	\$16,132	\$18,294	\$116,648	\$5,409	\$17,607	\$17,840	\$18,615	\$17,434	\$18,057	\$94,961
13 kWh Purchases	7,961,674	<u>7,940,598</u>	<u>8,705,486</u>	<u>8,233,654</u>	<u>6,443,461</u>	7,307,196	46,592,069	<u>3,570,608</u>	3,426,028	<u>3,471,343</u>	<u>3,622,174</u>	3,392,414	<u>3,513,544</u>	20,996,111
14 Total, Before Losses (L.12 / L.13)	\$0.00250	\$0.00250	\$0.00250	\$0.00250	\$0.00250	\$0.00250		\$0.00151	\$0.00514	\$0.00514	\$0.00514	\$0.00514	\$0.00514	
15 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>		4.591%	4.591%	4.591%	4.591%	4.591%	4.591%	
16 Total Retail Rate - RPS Charge (L.14 * (1+L.15))	\$0.00262	\$0.00262	\$0.00262	\$0.00262	\$0.00262	\$0.00262		\$0.00158	\$0.00538	\$0.00538	\$0.00538	\$0.00538	\$0.00538	
 TOTAL DEFAULT SERVICE CHARGE 17 Total Retail Rate - Default Service Charge (L.9 + L.16) 	MARKET		MARKET				5 15-079, dated			MARKET	MARKET	MARKET	MARKET	

Schedule LSM-1 Page 4 of 4

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

Superseding Thirty-FourthIssued in Lieu of Thirty-Third Revised Page 6

SUMMARY OF LOW-INCOME ELECTRIC ASSISTANCE PROGRAM DISCOUNTS

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

	Percentage of			LI-EAP discount Delivery Only; Excludes Supply	LI-EAP discount Fixed Default Service Supply Only		LI-EAP d Variable Def Supply	ault Service		LI-EAP discount Fixed Default Service Supply Only	CCE LI-EAP discount CCE Variable Default Service Supply Only					
Tier	Federal Poverty Guidelines	Discount (5)	Blocks	Dec 2015 - May 2016 (1) Aug 2015 - Nov 2015 (1)	Jun 2015 - Nov 2015 (2) -	<u>Aug-15 (3)</u>	<u>Sep-15 (3)</u>	Oct-15 (3)	<u>Nov-15 (3)</u>	Dec 2015 - May 2016 (2)	Dec-15 (3)	Jan-16 (3)	Feb-16 (3)	Mar-16 (3)	<u>Apr-16 (3)</u>	<u>May-16 (3)</u>
1 (4)	N/A	N/A														
2	151 - 200	9%	Customer Charge	(\$0.92)												
			First 250 kWh Next 500 kWh Excess 750 kWh	(\$0.00549) (\$0.00594) \$0.00000	(\$0.00623) (\$0.00623) \$0.00000	(\$0.00591) (\$0.00591) \$0.00000	(\$0.00555) (\$0.00555) \$0.00000	(\$0.00574) (\$0.00574) \$0.00000	(\$0.00759) (\$0.00759) \$0.00000	(\$0.00847) (\$0.00847) \$0.00000	(1111)		(1111)	(\$0.00831) (\$0.00831) \$0.00000	(\$0.00647) (\$0.00647) \$0.00000	(\$0.00547) (\$0.00547) \$0.00000
3	126 - 150	23%	Customer Charge	(\$2.36)												
000			First 250 kWh Next 500 kWh Excess 750 kWh	(\$0.01404) (\$0.01519) \$0.00000	(\$0.01592) (\$0.01592) \$0.00000	(\$0.01509) (\$0.01509) \$0.00000	(\$0.01419) (\$0.01419) \$0.00000	(\$0.01468) (\$0.01468) \$0.00000	(\$0.01941) (\$0.01941) \$0.00000	(\$0.02164) (\$0.02164) \$0.00000	(1.1.1.1.1.1)	(\$0.02710) (\$0.02710) \$0.00000	(1.1.1.1.1.1)			(\$0.01398) (\$0.01398) \$0.00000
0178	101 - 125	37%	Customer Charge	(\$3.80)												
			First 250 kWh Next 500 kWh Excess 750 kWh	(\$0.02258) (\$0.02443) \$0.00000	(\$0.02561) (\$0.02561) \$0.00000	(\$0.02428) (\$0.02428) \$0.00000	(\$0.02283) (\$0.02283) \$0.00000	(\$0.02361) (\$0.02361) \$0.00000	(\$0.03122) (\$0.03122) \$0.00000	(\$0.03481) (\$0.03481) \$0.00000	(, ,	(,,	(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	(\$0.03417) (\$0.03417) \$0.00000	(\$0.02658) (\$0.02658) \$0.00000	(\$0.02249) (\$0.02249) \$0.00000
5	76 - 100	53%	Customer Charge	(\$5.44)												
			First 250 kWh Next 500 kWh Excess 750 kWh	(\$0.03235) (\$0.03500) \$0.00000	(\$0.03668) (\$0.03668) \$0.00000	(\$0.03478) (\$0.03478) \$0.00000	(\$0.03271) (\$0.03271) \$0.00000	(\$0.03382) (\$0.03382) \$0.00000	(\$0.04472) (\$0.04472) \$0.00000	(\$0.04987) (\$0.04987) \$0.00000	((\$0.06244) (\$0.06244) \$0.00000	(,	(\$0.04895) (\$0.04895) \$0.00000	(\$0.03808) (\$0.03808) \$0.00000	(\$0.03222) (\$0.03222) \$0.00000
6	0 - 75	77%	Customer Charge	(\$7.91)												
			First 250 kWh Next 500 kWh Excess 750 kWh	(\$0.04700) (\$0.05085) \$0.00000	(\$0.05329) (\$0.05329) \$0.00000	(\$0.05054) (\$0.05054) \$0.00000	(\$0.04752) (\$0.04752) \$0.00000	(\$0.04914) (\$0.04914) <u>\$0.00000</u>	(\$0.06496) (\$0.06496) \$0.00000	(\$0.07245) (\$0.07245) \$0.00000	(1.1.1.1.1.1.)	(\$0.09072) (\$0.09072) \$0.00000	(\$0.08971) (\$0.08971) \$0.00000	(\$0.07112) (\$0.07112) \$0.00000		(\$0.04681) (\$0.04681) \$0.00000

(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 May 1, 2014 and in effect for 24 months in accordance with Order No. 25-643 in DE 14-078. UES received a waiver to implement these on May 1, 2014.

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

Issued: October 2July 23, 2015 Effective: August December 1, 2015 Issued By: Mark H. Collin Treasurer

Unitil Energy Systems, Inc. Calculation of Non-G1 Class Default Service Power Supply Charge

		Dec-15 Estimated	Jan-16 <u>Estimated</u>	Feb-16 Estimated	Mar-16 Estimated	Apr-16 Estimated	May-16 Estimated	Total
1	Residential Class Reconciliation (1)	(\$22,771)	(\$23,994)	(\$22,645)	(\$20,346)	(\$18,419)	(\$17,130)	(\$125,304)
2	Total Costs (Page 2)	<u>\$3,480,619</u>	<u>\$4,594,771</u>	<u>\$4,285,670</u>	<u>\$3,015,924</u>	<u>\$2,088,170</u>	<u>\$1,620,290</u>	<u>\$19,085,444</u>
3	Reconciliation plus Total Costs (L.1 + L.2)	\$3,457,848	\$4,570,777	\$4,263,024	\$2,995,578	\$2,069,751	\$1,603,160	\$18,960,140
4	kWh Purchases	41,166,605	43,378,451	40,940,235	36,783,642	<u>33,298,924</u>	30,968,524	226,536,380
5	Total, Before Losses (L.3 / L.4)	\$0.08400	\$0.10537	\$0.10413	\$0.08144	\$0.06216	\$0.05177	\$0.08370
6	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
7 8	Total Retail Rate - Residential Variable Power Supply Charge $(L.5 * (1+L.6))$ Total Retail Rate - Residential Fixed Power Supply Charge $(L.5 * (1+L.6))$	\$0.08937	\$0.11211	\$0.11079	\$0.08665	\$0.06613	\$0.05508	\$0.08905
9	<u>G2 and OL Class</u> Reconciliation (1)	(\$8,933)	(\$9,194)	(\$9,186)	(\$9,169)	(\$8,602)	(\$8,287)	(\$53,370)
10	Total Costs (Page 2)	<u>\$1,367,153</u>	<u>\$1,743,727</u>	<u>\$1,713,255</u>	<u>\$1,337,392</u>	<u>\$952,131</u>	<u>\$763,851</u>	<u>\$7,877,509</u>
11	Reconciliation plus Total Costs (L.9 + L.10)	\$1,358,220	\$1,734,533	\$1,704,069	\$1,328,223	\$943,529	\$755,564	\$7,824,139
12	kWh Purchases	16,152,651	16,623,879	<u>16,609,176</u>	16,578,365	15,552,653	14,983,185	96,499,908
13	Total, Before Losses (L.11 / L.12)	\$0.08409	\$0.10434	\$0.10260	\$0.08012	\$0.06067	\$0.05043	\$0.08108
14	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>
15 16	Total Retail Rate - G2 and OL Variable Power Supply Charge (L.13 * (1+L.14)) Total Retail Rate - G2 and OL Fixed Power Supply Charge (L.13 * (1+L.14))	\$0.08947	\$0.11102	\$0.10916	\$0.08525	\$0.06455	\$0.05365	\$0.08627

(1) As filed in DE 15-079 (April 2015). Power Supply Charge balance as of February 28, 2015, as adjusted, allocated between rate periods (June-November 2015 and December 2015-May 2016) and rate classes (Residential and G2/OL), and then to each month, December 2015 through May 2016, on equal per kWh basis.

			Reconciliation
			per period
Rate period: June-November 2015			(\$175,346)
Rate period: December 2015-May 2016			<u>(\$178,674)</u>
Total			(\$354,020)
			Dec 2015-May 2016
	Dec 2015-May 2016		Reconciliation
	kWh purchases	% by class	by class
Residential class	226,536,380	70.13%	(\$125,304)
G2 and OL class	<u>96,499,908</u>	29.87%	(\$53,370)
Total	323,036,288		(\$178,674)

Redacted

Unitil Energy Systems, Inc. Itemized Costs for Non-G1 Class Default Service Charge Schedule LSM-2 Page 2 of 2

	(a)	(b)	(c)		ation of Working ges and GIS Sup (e)		(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)
	Non-G1 Class (Residential) DS Supplier Charges (1)	Non-G1 Class (G2 and OL) DS Supplier Charges (1)	GIS Support Payments	Number of Days of Lag / 365 (2)	Working Capital Requirement ((a+b+c)*d)	Prime Rate	Supply Related Working Capital (e * f)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Default Service Portion of the annual PUC Assessment	Non-G1 Class (Residential) DS Supplier Charges (col. a)	Supplier Charges	Costs (sum col. c	
Dec-15 Jan-16 Feb-16 Mar-16 Apr-16 May-16 Total			\$473 \$580 \$607 \$582 \$540 <u>\$494</u> \$3,275	6.50% 6.50% 6.50% 6.50% 6.50%		3.25% 3.25% 3.25% 3.25% 3.25% 3.25%			\$2,464 \$2,464 \$2,464 \$2,464 \$2,464 <u>\$2,464</u> \$14,783	\$0 \$0 \$0 \$0 \$0 <u>\$0</u> \$0	\$0 \$0 \$0 \$0 <u>\$0</u> \$0	\$782 \$782 \$782 \$782 \$782 <u>\$782</u> \$4,690				\$4,847,772 \$6,338,498 \$5,998,925 \$4,353,316 \$3,040,301 <u>\$2,384,141</u> \$26,962,953

Total Costs Allocated to the Residential Class and the G2/OL Class

	Non-G1 Class (Residential) DS Supplier Charges (col. a) (i)	Allocation of Remaining Costs (col. o) to Residential Class (3) (ii)	Total Non-G1 Class (Residential) Power Supply Charges (iii) = (i) + (ii)		Non-G1 Class (G2 and OL) DS Supplier Charges (col. b) (iv)	Allocation of Remaining Costs (col. o) to G2 and OL Class (3) (v)	Total Non-G1 Class (G2 and OL) Power Supply Charges (vi) = (iv) + (v)
Dec-15			\$3,480,619	1			\$1,367,153
Jan-16			\$4,594,771				\$1,743,727
Feb-16			\$4,285,670				\$1,713,255
Mar-16			\$3,015,924				\$1,337,392
Apr-16			\$2,088,170				\$952,131
May-16			\$1,620,290				\$763,851
Total			\$19,085,444				\$7,877,509

(1) Estimates based on monthly average wholesale rate times estimated monthly purchases.
 (2) Number of days lag equals 23.71. Calculated using revenue lag of 55.15 days less cost lead of 31.44 days. Revenue lag per Schedule BC-1, Page 4 of 23 and cost lead per Schedule BC-1, Page 22 of 23, DE 15-079 filed April 3, 2015.
 (3) Remaining Costs (column o) allocated between the Residential Class and the G2 and Outdoor Lighting Class based on estimated monthly kWh purchases, as shown below:

	Estimated kWh Purchases - Residential Class	Estimated kWh Purchases - G2 and OL Class	Total Non-G1 Class kWh Purchases	Residential Class kWh Purchases / Total Non-G1 Class kWh Purchases	G2 and OL Class kWh Purchases / Total Non-G1 Class kWh Purchases
Dec-15	41,166,605	16,152,651	57,319,256	71.8%	28.2%
Jan-16	43,378,451	16,623,879	60,002,329	72.3%	27.7%
Feb-16	40,940,235	16,609,176	57,549,411	71.1%	28.9%
Mar-16	36,783,642	16,578,365	53,362,007	68.9%	31.1%
Apr-16	33,298,924	15,552,653	48,851,576	68.2%	31.8%
May-16	30,968,524	14,983,185	45,951,709	67.4%	32.6%
Total	226,536,380	96,499,908	323,036,288		

Unitil Energy Systems, Inc.

Calculation of Non-G1 Class Default Service Renewable Portfolio Standard (RPS) Charge

		Dec-15 Estimated	Jan-16 Estimated	Feb-16 Estimated	Mar-16 Estimated	Apr-16 Estimated	May-16 Estimated	Total
1	Reconciliation (1)	(\$90,817)	(\$95,068)	(\$91,182)	(\$84,547)	(\$77,401)	(\$72,806)	<u>Total</u> (\$511,822)
2	Total Costs (Page 2)	<u>\$194,365</u>	<u>\$417,212</u>	<u>\$400,160</u>	<u>\$371,049</u>	<u>\$339,688</u>	<u>\$319,525</u>	<u>\$2,042,000</u>
3	Reconciliation plus Total Costs (L.1 + L.2)	\$103,548	\$322,144	\$308,978	\$286,502	\$262,287	\$246,719	\$1,530,178
4	kWh Purchases	<u>57,319,256</u>	<u>60,002,329</u>	<u>57,549,411</u>	<u>53,362,007</u>	<u>48,851,576</u>	<u>45,951,709</u>	<u>323,036,288</u>
5000	Total, Before Losses (L.3 / L.4)	\$0.00181	\$0.00537	\$0.00537	\$0.00537	\$0.00537	\$0.00537	\$0.00474
00 16 1	Losses	<u>6.40%</u>						
7 8	Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6)) Total Retail Rate - Fixed RPS Charge (L.5 * (1+L.6))	\$0.00192	\$0.00571	\$0.00571	\$0.00571	\$0.00571	\$0.00571	\$0.00504

(1) As filed in DE 15-079 (April 2015). Renewable Portfolio Standard Charge balance as of February 28, 2015, as adjusted, allocated between rate periods (June-November 2015 and December 2015-May 2016) and then to each month on equal per kWh basis.

Reconciliation amount for June-November 2015	(\$502,289)
Reconciliation amount for December 2015-May 2016	<u>(\$511,822)</u>
Total	(\$1,014,111)

Unitil Energy Systems, Inc. Itemized Costs for Non-G1 Class Default Service Renewable Portfolio Standard Charge

Schedule LSM-3 Page 2 of 2

			Calculati	on of Working	Capital	
	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
	Renewable Energy Credits	Days of Lag /	Requirement		Supply Related Working	
-	(1)	365 (2)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Dec-15	\$200,062	(87.62%)	(\$175,293)	3.25%	(\$5,697)	\$194,365
Jan-16	\$429,441	(87.62%)	(\$376,273)	3.25%	(\$12,229)	\$417,212
Feb-16	\$411,889	(87.62%)	(\$360,894)	3.25%	(\$11,729)	\$400,160
Mar-16	\$381,925	(87.62%)	(\$334,639)	3.25%	(\$10,876)	\$371,049
Apr-16	\$349,645	(87.62%)	(\$306,356)	3.25%	(\$9,957)	\$339,688
May-16	<u>\$328,891</u>	(87.62%)	<u>(\$288,172)</u>	3.25%	<u>(\$9,366)</u>	<u>\$319,525</u>
Total	\$2,101,853		(\$1,841,626)		(\$59,853)	\$2,042,000

(1) Schedule TMB-4.

(2) Number of days lag equals (319.81). Calculated using revenue lag of 55.15 days less cost lead of 374.96 days. Revenue lag per Schedule BC-1, Page 4 of 23 and cost lead per Schedule BC-1, Page 22 of 23, DE 15-079 filed April 3, 2015.

Calculation of G1 Large General Service Class Default Service Power Supply Charge

1 Reconciliation (1)	Total <u>Dec15-May16</u> (\$217,072)
2 Total Costs excl. wholesale supplier charge (Page 2)	<u>\$21,966</u>
3 Reconciliation plus Total Costs excl. wholesale supplier charge (L.	1 + L.2) (\$195,105)
4 kWh Purchases	<u>20,996,111</u>
5 Total, Before Losses (L.3 / L.4)	(\$0.00929)
6 Losses	<u>4.591%</u>
7 Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6	5)) (2) (\$0.00972)

(1) As filed in DE 15-079 (April 2015). Power Supply Charge balance as of February 28, 2015, as adjusted, allocated between rate periods (June-November 2015 and December 2015-May 2016) and then to each month on equal per kWh basis.

Reconciliation amount for June-November 2015	(\$238,690)
Reconciliation amount for December 2015-May 2016	<u>(\$217,072)</u>
Total	(\$455,762)

(2) The total G1 Power Supply Charge will equal the sum of Line 7 plus a wholesale supplier charge which shall be determined at the end of each month. The wholesale supply charges will be determined as the sum of the average ISO-New England real time hourly locational marginal prices for the New Hampshire load zone, weighted by the wholesale hourly kWh volumes of the Company's G1 Default Service customers, and charges for capacity, ancillary services, and other supplier costs established through a competitive bidding process.

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

Calculation of Working Capital Supplier Charges and GIS Support Payments (I) (a) (b) (c) (d) (e) (f) (g) (h) (i) (j) (k) Working Internal **Default Service** Total G1 Class GIS Capital Supply Related Portion of the Number of Provision for Company Consulting **Total Costs DS** Supplier Support Days of Lag Requirement Working Capital Uncollected Administrative Legal **Outside Service** annual PUC (sum a + b + f + Charges (1) Payments / 365 (2) (3) Prime Rate (d * e) Accounts Costs Charges Charges Assessment g + h + i + j + kDec-15 \$35 (2.53%)(\$6,433) 3.25% (\$209) \$0 \$3.772 \$0 \$0 \$52 \$3.650 Jan-16 \$36 (2.53%)(\$7,719) 3.25% (\$251) \$0 \$3.772 \$0 \$0 \$52 \$3.609 Feb-16 \$35 (2.53%)3.25% (\$251) \$0 \$3,772 \$0 \$0 \$52 \$3,607 (\$7,715) Mar-16 \$35 (2.53%) (\$6,299) 3.25% (\$205) \$0 \$3.772 \$0 \$0 \$52 \$3,654 000184 Apr-16 \$37 (2.53%)(\$4,479) 3.25% (\$146) \$0 \$3.772 \$0 \$0 \$52 \$3.714 May-16 \$34 (2.53%) (\$3,835) 3.25% (\$125) <u>\$0</u> \$3,772 \$0 \$0 \$52 \$3,733 Total \$212 (\$1,186) \$0 \$22.630 \$0 \$0 \$310 \$21.966

(1) DS Supplier Charges to be determined at the end of each month.

(2) Number of days lag equals (9.24). Calculated using revenue lag of 40.41 days less cost lead of 49.65 days. Revenue lag per Schedule BC-1, Page 4 of 23 and cost lead per Schedule BC-1, Page 20 of 23, DE 15--079 filed April 3, 2015.

(3) The working capital requirement equals the supplier charge plus GIS Support payment times the number of days lag divided by 365. As the G1 class supplier charge is not determined using a contract price, estimates of the G1 class power supply costs were calculated based on the forecasted G1 class kWh purchases and an estimated price per kWh. The estimated price per kWh was determined by comparing a historical relationship between G1 and Non-G1 class supplier pricing and then applying that relationship to the current average Non-G1 supplier price per kWh. Actual working capital will be determined using the actual supplier charges in each month.

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

		Dec-15 Estimated	Jan-16 Estimated	Feb-16 Estimated	Mar-16 <u>Estimated</u>	Apr-16 Estimated	May-16 Estimated	<u>Total</u>
1	Reconciliation (1)	(\$6,910)	(\$6,630)	(\$6,718)	(\$7,010)	(\$6,565)	(\$6,799)	(\$40,632)
2	Total Costs (Page 2)	<u>\$12,319</u>	<u>\$24,237</u>	<u>\$24,558</u>	<u>\$25,625</u>	<u>\$23,999</u>	<u>\$24,856</u>	<u>\$135,593</u>
3	Reconciliation plus Total Costs (L.1 + L.2)	\$5,409	\$17,607	\$17,840	\$18,615	\$17,434	\$18,057	\$94,961
4	kWh Purchases	<u>3,570,608</u>	<u>3,426,028</u>	<u>3,471,343</u>	<u>3,622,174</u>	<u>3,392,414</u>	<u>3,513,544</u>	20,996,111
000018	Total, Before Losses (L.3 / L.4)	\$0.00151	\$0.00514	\$0.00514	\$0.00514	\$0.00514	\$0.00514	
85 G	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 RPS Charge (L.5 * (1+L.6))	\$0.00158	\$0.00538	\$0.00538	\$0.00538	\$0.00538	\$0.00538	

(1) As filed in DE 15-079 (April 2015). Renewable Portfolio Standard Charge balance as of February 28, 2015, as adjusted, allocated between rate periods (June-November 2015 and December 2015-May 2016) and then to each month on equal per kWh basis.

Reconciliation amount for June-November 2015	(\$44,675)
Reconciliation amount for December 2015-May 2016	<u>(\$40,632)</u>
Total	(\$85,307)

Unitil Energy Systems, Inc. Itemized Costs for G1 Class Default Service Renewable Portfolio Standard Charge

			Calculati	on of Working	Capital	
	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
	Renewable Energy Credits	Days of Lag /	Requirement		Supply Related Working	Total Costs (sum
-	(1)	365 (2)	(a*b)	Prime Rate	Capital (c * d)	a + e)
Dec-15	\$12,684	(88.59%)	(\$11,237)	3.25%	(\$365)	\$12,319
Jan-16	\$24,956	(88.59%)	(\$22,109)	3.25%	(\$719)	\$24,237
Feb-16	\$25,286	(88.59%)	(\$22,401)	3.25%	(\$728)	\$24,558
Mar-16	\$26,384	(88.59%)	(\$23,374)	3.25%	(\$760)	\$25,625
Apr-16	\$24,711	(88.59%)	(\$21,892)	3.25%	(\$711)	\$23,999
May-16	<u>\$25,593</u>	(88.59%)	(\$22,673)	3.25%	<u>(\$737)</u>	<u>\$24,856</u>
Total	\$139,613				(\$4,020)	\$135,593

(1) Schedule TMB-4.

(2) Number of days lag equals (323.36). Calculated using revenue lag of 40.41 days less cost lead of 363.77 days. Revenue lag per Schedule BC-

1, Page 4 of 23 and cost lead per Schedule BC-1, Page 20 of 23, DE 15-079 filed April 3, 2015.

Unitil Energy Systems, Inc. Internal Administrative Costs associated with Default Service

		G1 Class	Non-G1 Class	Total	Notes:
Energy Contrac					
1	Average Cost of Labor per Hour	\$43.39	\$43.39	\$43.39	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>249.4</u>	<u>150.6</u>	<u>400.0</u>	
3	Cost of Labor	\$10,821	\$6,535	\$17,356	
4	Overhead (Line 3 * Overhead rate)	<u>\$11,723</u>	<u>\$7,079</u>	<u>\$18,802</u>	2
5	Total Labor and Overhead Cost	<u>\$22,544</u>	<u>\$13,613</u>	<u>\$36,158</u>	
Regulatory Ser	vices Department:				
1	Average Cost of Labor per Hour	\$53.00	\$53.00	\$53.00	1
2	Estimated Annual Hours Required to Accomplish Tasks	88.0	35.0	123.0	
3	Cost of Labor	\$4,664	\$1,855	\$6,519	
4	Overhead (Line 3 * Overhead rate)	\$5,053	\$2,010	\$7,062	2
5	Total Labor and Overhead Cost	<u>\$9,717</u>	<u>\$3,865</u>	<u>\$13,581</u>	
Accounts Paval	ble Department:				
1	Average Cost of Labor per Hour	\$24.07	\$24.07	\$24.07	1
2	Estimated Annual Hours Required to Accomplish Tasks	6.0	6.0	12.0	•
3	Cost of Labor	\$144	\$144	\$289	
4	Overhead (Line 3 * Overhead rate)	\$156	<u>\$156</u>	\$313	2
5	Total Labor and Overhead Cost	<u>\$301</u>	<u>\$301</u>	<u>\$602</u>	2
Gonoral Account	nting Doportmont:				
General Accour	nting Department: Average Cost of Labor per Hour	\$43.77	\$43.77	\$43.77	1
2	Estimated Annual Hours Required to Accomplish Tasks				
2	Cost of Labor	6.0 \$262	<u>6.0</u> \$263	<u>12.0</u> \$525	
		\$263 \$284			2
4	Overhead (Line 3 * Overhead rate)	<u>\$284</u>	<u>\$284</u>	<u>\$569</u>	2
5	Total Labor and Overhead Cost	<u>\$547</u>	<u>\$547</u>	<u>\$1,094</u>	
Finance Depart					
1	Average Cost of Labor per Hour	\$44.33	\$44.33	\$44.33	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>26.0</u>	<u>26.0</u>	<u>52.0</u>	
3	Cost of Labor	\$1,153	\$1,153	\$2,305	
4	Overhead (Line 3 * Overhead rate)	<u>\$1,249</u>	<u>\$1,249</u>	<u>\$2,497</u>	2
5	Total Labor and Overhead Cost	<u>\$2,401</u>	<u>\$2,401</u>	<u>\$4,802</u>	
Communication	ns Department:				
1	, Average Cost of Labor per Hour	\$50.69	\$50.69	\$50.69	1
2	Estimated Annual Hours Required to Accomplish Tasks	60.0	60.0	120.0	
3	Cost of Labor	\$3,041	\$3,041	\$6,083	
4	Overhead (Line 3 * Overhead rate)	\$3,295	\$3,295	\$6,589	2
5	Total Labor and Overhead Cost	<u>\$6,336</u>	<u>\$6,336</u>	<u>\$12,672</u>	_
Rusiness Devel	lopment Department:				
1	Average Cost of Labor per Hour	\$42.92	\$42.92	\$42.92	1
2	Estimated Annual Hours Required to Accomplish Tasks	\$42.92 <u>8.0</u>	<u>942.92</u> <u>0.0</u>	\$42.92 <u>8.0</u>	
3	Cost of Labor	\$343	<u>0:0</u> \$0	\$343	
4	Overhead (Line 3 * Overhead rate)	\$372	\$0 <u>\$0</u>	\$372	2
5	Total Labor and Overhead Cost	<u>\$715</u>	<u>\$0</u>	<u>\$715</u>	2
Information Com	stome Department:		_		
11101111ation 5ys	stems Department: Average Cost of Labor per Hour	\$42.36	\$42.36	\$10.00	1
1	Estimated Annual Hours Required to Accomplish Tasks			\$42.36	
2		<u>3.6</u>	<u>1.4</u> \$50	<u>5.0</u>	
-	Cost of Labor	\$152 \$165	\$59 \$64	\$212 \$220	2
4	Overhead (Line 3 * Overhead rate)	<u>\$165</u>	<u>\$64</u>	<u>\$229</u>	2
5	Total Labor and Overhead Cost	<u>\$318</u>	<u>\$124</u>	<u>\$441</u>	
	ice Department:				
1	Average Cost of Labor per Hour	\$23.80	\$23.80	\$23.80	1
2	Estimated Annual Hours Required to Accomplish Tasks	<u>48.0</u>	<u>48.0</u>	<u>96.0</u>	
3	Cost of Labor	\$1,142	\$1,142	\$2,285	
4	Overhead (Line 3 * Overhead rate)	<u>\$1,238</u>	<u>\$1,238</u>	<u>\$2,475</u>	2
5	Total Labor and Overhead Cost	<u>\$2,380</u>	<u>\$2,380</u>	<u>\$4,760</u>	
	TOTAL ANNUAL COST	\$45,259	<u>\$29,567</u>	<u>\$74,826</u>	1

Notes: 1) See Schedule LSM-6, Page 2 of 2. 2) Based on Unitil Service Corp. overhead rate of 108.33% (2014 average rate).

Unitil Service Corp. Average Cost of Labor per Hour by Department

<u>Department</u> (a)	Full Time <u>Equivalent (1)</u> (b)	Annualized <u>Base Labor</u> (c)	Open <u>Positions</u> (d)	Open <u>Positions (2)</u> (e)	Total <u>Positions</u> (b) + (d) = (f)	Total <u>Salaries</u> (c) + (e) = (g)	Avg Hrly <u>Labor Cost (3)</u> (g) \div (f) \div 2080 = (h)
Energy Contracts	8.00	\$741,975	1.0	\$70,203	9.00	\$812,178	\$43.39
Regulatory / Legal	10.00	\$1,102,452	0.0	\$0	10.00	\$1,102,452	\$53.00
Accounts Payable	5.00	\$250,301	0.0	\$0	5.00	\$250,301	\$24.07
General Accounting	18.80 (4)	\$1,711,616	0.0	\$0	18.80	\$1,711,616	\$43.77
Finance	5.00	\$461,023	0.0	\$0	5.00	\$461,023	\$44.33
Communications	7.00	\$738,089	0.0	\$0	7.00	\$738,089	\$50.69
Business Services	24.00	\$2,142,739	0.0	\$0	24.00	\$2,142,739	\$42.92
Information Systems	21.00	\$1,850,493	0.0	\$0	21.00	\$1,850,493	\$42.36
Customer Service	65.00	\$3,237,863	2.0	\$78,616	67.00	\$3,316,479	\$23.80

(1) Annualized salaries of active employees as of September 1, 2015.

(2) Salary range midpoint of open positions as of September 1, 2015.

(3) Total Salaries ÷ Total Positions ÷ (40 hours/wk * 52 weeks/yr).

(4) Includes one part-time employee.

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

Residential Rate D 646 kWh Bill

	10/1/2015	12/1/2015					%
Rate Components	Current Rate	As Revised	Difference	Current Bill*	As Revised Bill*	Difference	Difference to Total Bi
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	\$0.03404	\$0.03404	\$0.00000	\$8.51	\$8.51	\$0.00	0.0%
Excess 250 kWh	\$0.03904	\$0.03904	\$0.00000	\$15.46	\$15.46	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000	\$13.77	\$13.77	\$0.00	0.0%
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.12	\$0.12	\$0.00	0.0%
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.43	\$1.43	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.13	\$2.13	\$0.00	0.0%
Default Service Charge	\$0.06921	\$0.09409	\$0.02488	\$44.71	\$60.78	\$16.07	16.7%
First 250 kWh	\$0.13025	\$0.15513	\$0.02488				
Excess 250 kWh	\$0.13525	\$0.16013	\$0.02488				
Total Bill				\$96.39	\$112.46	\$16.07	16.7%

	Regular Genera	G2 Demand,	11 kW, 2,800 l	Wh Typical Bil	<u>L</u>		
	10/1/2015	12/1/2015					%
Rate Components	Current Rate	As Revised	Difference	Current Bill*	As Revised Bill*	Difference	Difference to Total Bill
Customer Charge	\$18.41	\$18.41	\$0.00	\$18.41	\$18.41	\$0.00	0.0%
Distribution Charge Stranded Cost Charge Total	<u>All kW</u> \$10.31 <u>\$0.04</u> \$10.35	<u>All kW</u> \$10.31 <u>\$0.04</u> \$10.35	\$0.00 <u>\$0.00</u> \$0.00	\$113.41 <u>\$0.44</u> \$113.85	\$113.41 <u>\$0.44</u> \$113.85	\$0.00 <u>\$0.00</u> \$0.00	0.0% <u>0.0%</u> 0.0%
Distribution Charge	<u>\$/kWh</u> \$0.00000	<u>\$/kWh</u> \$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge Stranded Cost Charge	\$0.02131 \$0.00004	\$0.02131 \$0.00004	\$0.00000 \$0.00000	\$59.67 \$0.11	\$59.67 \$0.11	\$0.00 \$0.00	0.0% 0.0%
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$6.19	\$6.19	\$0.00	0.0%
System Benefits Charge Default Service Charge	\$0.00330 <u>\$0.06993</u>	\$0.00330 <u>\$0.09131</u>	\$0.00000 <u>\$0.02138</u>	\$9.24 <u>\$195.80</u>	\$9.24 <u>\$255.67</u>	\$0.00 <u>\$59.86</u>	0.0% <u>14.8%</u>
Total Total I	\$0.09679 Bill	\$0.11817	\$0.02138	\$271.01 \$403.27	\$330.88 \$463.14	\$59.86 \$59.86	14.8% 14.8%

* Comparison isolates the impact of changes to the Default Service Rate only. Impacts do not include the Electricity Consumption Tax.

Regular General	G2 Quick Reco	overy Water He	ating and Spa	Regular General G2 Quick Recovery Water Heating and Space Heating 1,620 kWh Typical Bill											
	10/1/2015	12/1/2015					%								
							Difference to								
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill*	As Revised Bill*	<u>Difference</u>	Total Bill								
Customer Charge	\$6.25	\$6.25	\$0.00	\$6.25	\$6.25	\$0.00	0.0%								
	<u>\$/kWh</u>	<u>\$/kWh</u>													
Distribution Charge	\$0.03073	\$0.03073	\$0.00000	\$49.78	\$49.78	\$0.00	0.0%								
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000	\$34.52	\$34.52	\$0.00	0.0%								
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.29	\$0.29	\$0.00	0.0%								
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>\$0.06993</u>	<u>\$0.09131</u>	<u>\$0.02138</u>	<u>\$113.29</u>	<u>\$147.92</u>	<u>\$34.64</u>	<u>16.3%</u>								
Total	\$0.12766	\$0.14904	\$0.02138	\$206.81	\$241.44	\$34.64	16.3%								
Total Bill				\$213.06	\$247.69	\$34.64	16.3%								
	<u>Regular Ge</u>	eneral G2 kWh	Meter 125 kW	h Typical Bill											
	10/1/2015	12/1/2015					%								
							Difference t								
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill*	As Revised Bill*	<u>Difference</u>	Total Bill								
Customer Charge	\$13.94	\$13.94	\$0.00	\$13.94	\$13.94	\$0.00	0.0%								
	<u>\$/kWh</u>	<u>\$/kWh</u>													
Distribution Charge	\$0.03211	\$0.03211	\$0.00000	\$4.01	\$4.01	\$0.00	0.0%								
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000	\$2.66	\$2.66	\$0.00	0.0%								
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.02	\$0.02	\$0.00	0.0%								
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	\$0.06993	\$0.09131	\$0.02138	\$8.74	\$11.41	\$2.67	8.9%								
T ()	<u>.</u>	<u> </u>	<u>.</u>	<u>.</u>	<u>.</u>	<u>.</u>									

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

* Comparison isolates the impact of changes to the Default Service Rate only. Impacts do not include the Electricity Consumption Tax.

\$0.02138

\$16.13

\$30.07

\$18.80

\$32.74

\$2.67

\$2.67

8.9%

8.9%

\$0.12904

Total Bill

\$0.15042

Total

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

	10/1/2015	12/1/2015					%
Rate Components	Current Rate	As Revised	Difference	Current Bill**	As Revised Bill**	Difference	Difference to Total Bil
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	\$0.03404	\$0.03404	\$0.00000	\$8.51	\$8.51	\$0.00	0.0%
Excess 250 kWh	\$0.03904	\$0.03904	\$0.00000	\$15.46	\$15.46	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000	\$13.77	\$13.77	\$0.00	0.0%
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.12	\$0.12	\$0.00	0.0%
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.43	\$1.43	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.13	\$2.13	\$0.00	0.0%
Default Service Charge	<u>\$0.06921</u>	<u>\$0.09409</u>	<u>\$0.02488</u>	\$44.71	<u>\$60.78</u>	<u>\$16.07</u>	<u>16.7%</u>
First 250 kWh	\$0.13025	\$0.15513	\$0.02488				
Excess 250 kWh	\$0.13525	\$0.16013	\$0.02488				
Total Bill				\$96.39	\$112.46	\$16.07	16.7%

Residential Rate D 646 kWh Bill - Mean Use*

Residential Rate D 534 kWh Bill - Median Use*

	10/1/2015	12/1/2015					%
Rate Components	Current Rate	As Revised	Difference	Current Bill**	As Revised Bill**	Difference	Difference to Total Bill
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	\$0.03404	\$0.03404	\$0.00000	\$8.51	\$8.51	\$0.00	0.0%
Excess 250 kWh	\$0.03904	\$0.03904	\$0.00000	\$11.09	\$11.09	\$0.00	0.0%
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000	\$11.38	\$11.38	\$0.00	0.0%
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.10	\$0.10	\$0.00	0.0%
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.18	\$1.18	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$1.76	\$1.76	\$0.00	0.0%
Default Service Charge	\$0.06921	\$0.09409	\$0.02488	\$36.96	\$50.24	\$13.29	16.4%
First 250 kWh	\$0.13025	\$0.15513	\$0.02488				
Excess 250 kWh	\$0.13525	\$0.16013	\$0.02488				
Total Bill				\$81.24	\$94.53	\$13.29	16.4%

* Based on billing period March 2014 through February 2015.

** Comparison isolates the impact of changes to the Default Service Rate only. Impacts do not include the Electricity Consumption Tax.

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Unitil Energy Systems, Inc. Average Class Bill Impacts Due to Proposed Default Service Rate Changes Effective December 1, 2015*

(A) <u>Class of Service</u>	(B) Annual Number of Customers (luminaires <u>for Outdoor Lighting)</u>	(C) Annual kWh <u>Sales</u>	(D) Annual kW / kVA <u>Sales</u>	(E) Proposed DSC <u>Change \$</u>	(F) Estimated Annual Revenue \$ Under <u>Present Rates</u>	(G) Estimated Annual Revenue \$ Under <u>Proposed Rates</u>	(H) Proposed Net Change <u>Revenue \$</u>	(I) % Change DSC <u>Revenue</u>
Residential	763,694	480,638,599	n/a	\$11,958,288	\$71,985,463	\$83,943,751	\$11,958,288	16.6%
General Service	129,249	340,275,469	1,301,458	\$7,275,090	\$48,905,081	\$56,180,171	\$7,275,090	14.9%
Qutdoor Lighting	115,819	8,988,739	n/a	\$192,179	\$2,609,735	\$2,801,914	\$192,179	7.4%
Total	1,008,762	829,902,807		\$19,425,557	\$123,500,279	\$142,925,836	\$19,425,557	15.7%

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

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

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

(G) Sum of Columns (E) and (F)

(H) Column (G) minus Column (F)

(I) Column (H) divided by Column (F)

* Comparison isolates the impact of changes to the Default Service Rate only.

Unitil Energy Systems, Inc. Typical Bill Impacts - October 1, 2015 versus December 1, 2015* Impacts do NOT include the Electricity Consumption Tax Impact on D Rate Customers										
		•								
		Total Bill	Total Bill		%					
	Average	Using Rates	Using Rates	Total	Total					
	<u>kWh</u>	<u>10/1/2015</u>	<u>12/1/2015</u>	Difference	Difference					
	125	\$26.55	\$29.66	\$3.11	11.7%					
	250	\$42.83	\$49.05	\$6.22	14.5%					
	500	\$76.65	\$89.09	\$12.44	16.2%					
	600	\$90.17	\$105.10	\$14.93	16.6%					
	750	\$110.46	\$129.12	\$18.66	16.9%					
	1,000	\$144.27	\$169.15	\$24.88	17.2%					
	1,250	\$178.08	\$209.18	\$31.10	17.5%					
	1,500	\$211.90	\$249.22	\$37.32	17.6%					
	2,000	\$279.52	\$329.28	\$49.76	17.8%					
	,	\$482.40	\$569.48	\$87.08	18.1%					
	3.500	J402.40	4003.40							
	3,500 5,000	\$482.40 \$685.27	\$809.67	\$124.40	18.2%					
Customer Charge		\$685.27 Rates - Effective	\$809.67 Rates - Proposed	\$124.40						
Customer Charge		\$685.27 Rates - Effective October 1, 2015	\$809.67 Rates - Proposed December 1, 2015	\$124.40 Difference						
-	5,000	\$685.27 Rates - Effective October 1, 2015 \$10.27	\$809.67 Rates - Proposed December 1, 2015 \$10.27	\$124.40 Difference \$0.00						
Distribution Charge: First	5,000	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u>	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u>	\$124.40 Difference \$0.00 <u>kWh</u>						
Distribution Charge: First	5,000 	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404	\$124.40 <u>Difference</u> \$0.00 <u>kWh</u> \$0.00000						
Distribution Charge: First Exce External Delivery Charge	5,000 	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904	\$124.40 Difference \$0.00 <u>kWh</u> \$0.00000 \$0.00000						
Distribution Charge: First Excer External Delivery Charge Stranded Cost Charge Storm Recovery Adjustmer	5,000 250 kWh ss 250 kWh	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.03904 \$0.02131	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.03904 \$0.02131	\$124.40 Difference \$0.00 <u>kWh</u> \$0.00000 \$0.00000 \$0.00000 \$0.00000						
Distribution Charge: First Excer External Delivery Charge Stranded Cost Charge Storm Recovery Adjustmer	5,000 250 kWh ss 250 kWh	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.03904 \$0.02131 \$0.00018	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.03904 \$0.02131 \$0.00018	\$124.40 Difference \$0.00 <u>kWh</u> \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000						
Distribution Charge: First Excer External Delivery Charge Stranded Cost Charge Storm Recovery Adjustmer System Benefits Charge Default Service Charge	5,000 250 kWh ss 250 kWh nt Factor	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.02131 \$0.00018 \$0.00221	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.02131 \$0.00018 \$0.00221	\$124.40 Difference \$0.00 <u>kWh</u> \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000						
Distribution Charge: First Excer External Delivery Charge Stranded Cost Charge Storm Recovery Adjustmer System Benefits Charge Default Service Charge TOTAL First	5,000 250 kWh ss 250 kWh	\$685.27 Rates - Effective October 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.02131 \$0.00018 \$0.00221 \$0.00330	\$809.67 Rates - Proposed December 1, 2015 \$10.27 <u>kWh</u> \$0.03404 \$0.03904 \$0.02131 \$0.00018 \$0.00221 \$0.00330	\$124.40 Difference \$0.00 <u>kWh</u> \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000						

	Unitil Energy Systems, Inc. Typical Bill Impacts - October 1, 2015 versus December 1, 2015* Impacts do NOT include the Electricity Consumption Tax Impact on G2 Rate Customers									
Load Factor	Average Monthly <u>kW</u>	Average Monthly <u>kWh</u>	Total Bill Using Rates <u>10/1/2015</u>	Total Bill Using Rates <u>12/1/2015</u>	Total <u>Difference</u>	% Total <u>Difference</u>				
20%	5	730	\$140.82	\$156.42	\$15.61	11.1%				
20%	10	1,460	\$263.22	\$294.44	\$31.21	11.9%				
20%	15	2,190	\$385.63	\$432.45	\$46.82	12.1%				
20%	25	3,650	\$630.44	\$708.48	\$78.04	12.4%				
20%	50	7,300	\$1,242.48	\$1,398.55	\$156.07	12.6%				
20%	75	10,950	\$1,854.51	\$2,088.62	\$234.11	12.6%				
20%	100	14,600	\$2,466.54	\$2,778.69	\$312.15	12.7%				
20%	150	21,900	\$3,690.61	\$4,158.83	\$468.22	12.7%				
36%	5	1,314	\$197.34	\$225.44	\$28.09	14.2%				
36%	10	2,628	\$376.27	\$432.46	\$56.19	14.9%				
36%	15	3,942	\$555.21	\$639.49	\$84.28	15.2%				
36%	25	6,570	\$913.07	\$1,053.54	\$140.47	15.4%				
36%	50	13,140	\$1,807.73	\$2,088.66	\$280.93	15.5%				
36%	75	19,710	\$2,702.39	\$3,123.79	\$421.40	15.6%				
36%	100	26,280	\$3,597.05	\$4,158.92	\$561.87	15.6%				
36%	150	39,420	\$5,386.37	\$6,229.17	\$842.80	15.6%				
50%	5	1,825	\$246.80	\$285.82	\$39.02	15.8%				
50%	10	3,650	\$475.19	\$553.23	\$78.04	16.4%				
50%	15	5,475	\$703.59	\$820.64	\$117.06	16.6%				
50%	25	9,125	\$1,160.37	\$1,355.46	\$195.09	16.8%				
50%	50	18,250	\$2,302.33	\$2,692.51	\$390.19	16.9%				
50%	75	27,375	\$3,444.29	\$4,029.56	\$585.28	17.0%				
50%	100	36,500	\$4,586.25	\$5,366.62	\$780.37	17.0%				
50%	150	54,750	\$6,870.16	\$8,040.72	\$1,170.56	17.0%				

	Rates - Effective October 1, 2015	Rates - Proposed December 1, 2015	Difference
Customer Charge	\$18.41	\$18.41	\$0.00
	<u>All kW</u>	<u>All kW</u>	All kW
Distribution Charge	\$10.31	\$10.31	\$0.00
Stranded Cost Charge	<u>\$0.04</u>	<u>\$0.04</u>	<u>\$0.00</u>
TOTAL	\$10.35	\$10.35	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.02131	\$0.02131	\$0.00000
Stranded Cost Charge	\$0.00004	\$0.00004	\$0.00000
Storm Recovery Adj. Factor	\$0.00221	\$0.00221	\$0.00000
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000
Default Service Charge	\$0.06993	<u>\$0.09131</u>	\$0.02138
TOTAL	\$0.09679	\$0.11817	\$0.02138

* Comparison isolates the impact of changes to the Default Service Rate only.

Unitil Energy Systems, Inc. Typical Bill Impacts - October 1, 2015 versus December 1, 2015* Impacts do NOT include the Electricity Consumption Tax Impact on G2 kWh Meter Rate Customers									
Average Monthly <u>kWh</u>	Total Bill Using Rates <u>10/1/2015</u>	Total Bill Using Rates <u>12/1/2015</u>	Total <u>Difference</u>	% Total <u>Difference</u>					
15	\$15.88	\$16.20	\$0.32	2.0%					
75	\$23.62	\$25.22	\$1.60	6.8%					
150	\$33.30	\$36.50	\$3.21	9.6%					
250	\$46.20	\$51.55	\$5.35	11.6%					
350	\$59.10	\$66.59	\$7.48	12.7%					
450	\$72.01	\$81.63	\$9.62	13.4%					
550	\$84.91	\$96.67	\$11.76	13.8%					
650	\$97.82	\$111.71	\$13.90	14.2%					
750	\$110.72	\$126.76	\$16.04	14.5%					
900	\$130.08	\$149.32	\$19.24	14.8%					
		Rates - Effective October 1, 2015	Rates - Proposed December 1, 2015	Difference					
kWh Meter Cu	ustomer Charge	\$13.94	\$13.94	\$0.00					
		<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>					
		\$0.03211	\$0.03211	\$0.00000					
	-	•							
External Deliv	very Charge	\$0.02131	\$0.02131	\$0.00000					
External Deliv Stranded Cos	very Charge t Charge	\$0.02131 \$0.00018	\$0.02131 \$0.00018	\$0.00000					
External Deliv Stranded Cos Storm Recove	very Charge It Charge ery Adjustment Factor	\$0.02131 \$0.00018 \$0.00221	\$0.02131 \$0.00018 \$0.00221						
External Deliv Stranded Cos Storm Recove System Benel	very Charge t Charge ery Adjustment Factor fits Charge	\$0.02131 \$0.00018	\$0.02131 \$0.00018 \$0.00221 \$0.00330	\$0.00000					
Distribution C External Deliv Stranded Cos Storm Recove System Benet Default Servic	very Charge t Charge ery Adjustment Factor fits Charge	\$0.02131 \$0.00018 \$0.00221	\$0.02131 \$0.00018 \$0.00221	\$0.00000 \$0.00000					

Unitil Energy Systems, Inc. Typical Bill Impacts - October 1, 2015 versus December 1, 2015* Impacts do NOT include the Electricity Consumption Tax Impact on G2 QRWH and SH Rate Customers								
Average <u>kWh</u>	Total Bill Using Rates <u>10/1/2015</u>	Total Bill Using Rates <u>12/1/2015</u>	Total <u>Difference</u>	% Total <u>Difference</u>				
100	\$19.02	\$21.15	\$2.14	11.2%				
200	\$31.78	\$36.06	\$4.28	13.5%				
300	\$44.55	\$50.96	\$6.41	14.4%				
400	\$57.31	\$65.87	\$8.55	14.9%				
500	\$70.08	\$80.77	\$10.69	15.3%				
750	\$102.00	\$118.03	\$16.04	15.7%				
1,000	\$133.91	\$155.29	\$21.38	16.0%				
1,500	\$197.74	\$229.81	\$32.07	16.2%				
2,000	\$261.57	\$304.33	\$42.76	16.3%				
2,500	\$325.40	\$378.85	\$53.45	16.4%				
		Rates - Effective October 1, 2015	Rates - Proposed December 1, 2015	Difference				
Customer C	harge	\$6.25	\$6.25	\$0.00				
		All kWh	All kWh	All kWh				
Distribution	-	\$0.03073 \$0.03131	\$0.03073 \$0.03131	\$0.00000				
	ivery Charge	\$0.02131 \$0.00018	\$0.02131 \$0.00018	\$0.00000 \$0.00000				
Stranded Co	0	\$0.00018 \$0.00221	\$0.00018 \$0.00331	\$0.00000				
	very Adjustment Factor	\$0.00221 \$0.00220	\$0.00221 \$0.00320	\$0.00000				
	efits Charge	\$0.00330 \$0.06003	\$0.00330 \$0.00131	\$0.00000 \$0.02128				
Default Service Charge		<u>\$0.06993</u> \$0.12766	<u>\$0.09131</u> \$0.14904	<u>\$0.02138</u> \$0.02138				
Default Serv TOTAL			\$0 14904	\$0.02138				

			do NOT include	er 1, 2015 versus D the Electricity Cor DL Rate Customers	sumption Tax	-		
	Nominal <u>Watts</u>	Lumens	Туре	Average <u>Monthly kWh</u>	Total Bill Using Rates <u>10/1/2015</u>	Total Bill Using Rates <u>12/1/2015</u>	Total <u>Difference</u>	% Total Difference
		rcury Vapor:						
	1 100	3,500	ST	40	\$15.16	\$16.01	\$0.86	5.6%
	2 175	7,000	ST	67	\$20.14	\$21.58	\$1.43	7.1%
	3 250	11,000	ST	95	\$24.88	\$26.91	\$2.03	8.2%
	4 400	20,000	ST	154	\$33.87	\$37.16	\$3.29	9.7%
	5 1,000	60,000	ST	388	\$76.67	\$84.96	\$8.30	10.8%
	6 250	11,000	FL	95	\$26.00	\$28.03	\$2.03	7.8%
	7 400	20,000	FL	154	\$35.31	\$38.60	\$3.29	9.3%
	8 1,000	60,000	FL	388	\$72.35	\$80.64	\$8.30	11.5%
	9 100 0 175	3,500 7,000	PB PB	40 67	\$15.28 \$19.30	\$16.13 \$20.74	\$0.86 \$1.43	5.6% 7.4%
I			10	07	ψ13.30	φ20.74	ψ1.45	7.470
		essure Sodium:			A 40 F	A 40.00	AA IF	
1		4,000	ST	21	\$13.55	\$13.99	\$0.45	3.3%
1.		9,500 16,000	ST ST	43 60	\$17.31 \$19.02	\$18.23 \$20.30	\$0.92 \$1.28	5.3% 6.7%
1		30,000	ST	101	\$26.70	\$28.86	\$2.16	8.1%
1		50,000	ST	161	\$37.31	\$40.75	\$3.44	9.2%
1		140,000	ST	398	\$77.13	\$85.64	\$8.51	11.0%
1		16,000	FL	60	\$21.26	\$22.54	\$1.28	6.0%
1	8 250	30,000	FL	101	\$28.26	\$30.42	\$2.16	7.6%
1		50,000	FL	161	\$36.79	\$40.23	\$3.44	9.4%
2		140,000	FL	398	\$77.48	\$85.99	\$8.51	11.0%
2		4,000	PB	21	\$12.58	\$13.02	\$0.45	3.6%
2	2 100	95,000	PB	43	\$16.18	\$17.10	\$0.92	5.7%
	M	etal Halide:						
2		8,800	ST	66	\$24.05	\$25.46	\$1.41	5.9%
2		13.500	ST	92	\$28.24	\$30.20	\$1.97	7.0%
2		23,500	ST	148	\$34.44	\$37.60	\$3.16	9.2%
2	6 175	8,800	FL	66	\$27.02	\$28.43	\$1.41	5.2%
2	7 250	13,500	FL	92	\$31.30	\$33.26	\$1.97	6.3%
2		23,500	FL	148	\$36.77	\$39.93	\$3.16	8.6%
2		8,800	PB	66	\$22.82	\$24.23	\$1.41	6.2%
3		13,500 23,500	PB PB	92 148	\$26.47 \$33.21	\$28.43 \$36.37	\$1.97 \$3.16	7.4% 9.5%
		Lu	minaire Charge	s For Year Round	Service:		1	
Rates - Effective October 1,	2015						a	
		Mercury vapo	r Rate/Mo.	Sodium vapo	or Rate/Mo.	Metal Halide R	ate/wo.	
Customer Charge	\$0.00	Mercury vapo						
Customer Charge	\$0.00	Mercury vapo	1 \$11.28	11	\$11.51	23	\$17.65	
Customer Charge	\$0.00 <u>All kWh</u>	<u>mercury vapo</u>			\$11.51 \$13.14			
-		Mercury Vapo	1 \$11.28 2 \$13.65	11	\$11.51 \$13.14 \$13.20	23 24	\$17.65 \$19.32	
Distribution Charge	<u>All kWh</u>	<u>mercury vapo</u>	1 \$11.28 2 \$13.65 3 \$15.67	11 12 13	\$11.51 \$13.14 \$13.20 \$16.91	23 24 25	\$17.65 \$19.32 \$20.09	
Distribution Charge External Delivery Charge Stranded Cost Charge	<u>All kWh</u> \$0.00000 \$0.02131 \$0.00018	<u>Mercury Vapo</u>	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79	11 12 13 14 15 16	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55	23 24 25 26 27 28	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor	<u>All kWh</u> \$0.00000 \$0.02131 \$0.00018 \$0.00221	<u>Mercury Vapo</u>	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38	11 12 13 14 15 16 17	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44	23 24 25 26 27 28 29	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	<u>All kWh</u> \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330	<u>mercury vapo</u>	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74	11 12 13 14 15 16 17 18	\$11.51 \$13.14 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47	23 24 25 26 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor	<u>All kWh</u> \$0.00000 \$0.02131 \$0.00018 \$0.00221	Mercury vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40	11 12 13 14 15 16 17 18 19	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18	23 24 25 26 27 28 29	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74	11 12 13 14 15 16 17 17 18 19 20	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90	23 24 25 26 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	<u>All kWh</u> \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330	Mercury vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40	11 12 13 14 15 16 17 18 19 20 20 21	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54	23 24 25 26 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81	11 12 13 14 15 16 17 18 19 20 21 22	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01	23 24 25 26 27 28 29 30 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81	11 12 13 14 15 16 17 18 19 20 20 21	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo.	23 24 25 26 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$1,2015		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81	11 12 13 14 15 16 17 18 19 20 21 21 22 Sodium Vapo	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. \$11.51	23 24 25 26 27 28 29 30 31 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$1,2015		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28	11 12 13 14 15 16 17 18 19 20 21 22 22 22 20 21 22 20 30dium Vapo 11	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 or Rate/Mo. \$11.51 \$13.14	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 tate/Mo. \$17.65	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$1, 2015 \$0.00 All kWh \$0.00000		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94	11 12 13 14 15 16 17 18 19 20 21 22 <u>Sodium Vapo</u> 11 12 23 3 3 14	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 or Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$18.86 \$19.32 \$20.09 \$20.62	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$0.00693 \$0.00 All kWh \$0.00000 \$0.002131		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06	11 12 13 14 15 16 17 18 19 20 21 22 Sodium Vapo 11 12 13 14 15	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 or Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$17.65 \$19.32 \$20.09 \$20.09 \$20.62 \$22.38	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00300 \$0.06993 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.00000 \$0.02131 \$0.00018		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79	111 12 13 14 15 16 17 18 19 20 20 21 22 Sodium Vapo 11 12 13 14 15 5 16	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27 28	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.0000 \$0.00000 \$0.00018 \$0.00018 \$0.00021		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38	111 12 13 14 15 16 17 18 19 20 20 21 22 Sodium Vapo 11 12 13 14 14 15 16 16	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 or Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27 26 27 28 29	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.09 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.0015 \$0.000 \$0.02131 \$0.00018 \$0.00221 \$0.00330		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74	11 12 13 14 15 16 17 17 18 20 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 7 8	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 tr Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47	23 24 25 26 29 30 31 <u>Metal Halide R</u> 23 24 25 26 6 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.06993 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.0000 \$0.00000 \$0.00018 \$0.00018 \$0.00021		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40	111 12 13 14 15 16 17 18 19 20 21 22 Sodium Vapo 21 22 Sodium Vapo 11 12 13 14 15 16 17 78 19	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$88.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27 26 27 28 29	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.09 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42	
Distribution Charge External Delivery Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.0211 \$0.00018 \$0.00211 \$0.00330 \$0.09131		1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74	11 12 13 14 15 16 17 17 18 20 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 7 8	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$1.51 \$13.14 \$13.20 \$16.91 \$1.51 \$13.14 \$13.20 \$16.91 \$1.51 \$13.14 \$13.20 \$16.91 \$1.51 \$13.14 \$13.20 \$16.91 \$1.51 \$13.14 \$13.20 \$16.91 \$1.21 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$13.14 \$13.20 \$16.91 \$12.170 \$38.55 \$15.44 \$12.11 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$15.44 \$13.20 \$38.55 \$15.44 \$38.90 \$390	23 24 25 26 29 30 31 <u>Metal Halide R</u> 23 24 25 26 6 27 28 29 30	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55	
Distribution Charge External Delivery Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.02131 \$0.0000 \$0.0221 \$0.00218 \$0.00221 \$0.00330 \$0.002131 \$0.00211 \$0.00018 \$0.00221 \$0.00330 \$0.00211 \$0.00330 \$0.00211 \$0.00330 \$0.002131 \$0.00021 \$0.00000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.0016 \$0.00000 \$0.00000 \$0.000000 \$0.000000 \$0.0000000 \$0.0000000 \$0.0000000000	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81	111 12 13 14 15 16 17 17 18 9 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 17 18 19 20 21 22 23 3 14 15 16 17 22 23 3 14 12 23 3 14 12 23 3 14 12 23 3 14 15 16 16 17 7 7 7 8 8 9 9 20 20 21 22 23 24 24 24 24 25 26 21 22 25 26 21 22 22 22 22 22 22 22 23 22 23 24 22 22 23 24 24 22 22 24 24 22 22 24 24 24 22 24 24	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 tr Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01	23 24 25 26 29 30 31 Metal Halide R 23 24 25 26 6 27 28 29 30 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 Xate/Mo. \$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09131 \$0.0000 \$0.02131 \$0.00018 \$0.00221 \$0.00330 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.00211 \$0.0000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.02131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.0000000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00000 \$0.002131 \$0.00018 \$0.00021 \$0.00018 \$0.0002131 \$0.0002131 \$0.00018 \$0.0002131 \$0.0002131 \$0.00018 \$0.0002131 \$0.00018 \$0.00018 \$0.0002131 \$0.00018 \$0.0002131 \$0.00018 \$0.00018 \$0.00018 \$0.000000 \$0.00118 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.00018 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.000000 \$0.0000000 \$0.0000000 \$0.000000 \$0.0000000 \$0.000000 \$0.0000000 \$0.0000000 \$0.00000000 \$0.0000000000	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 r Rate/Mo. 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81	111 12 13 14 15 16 17 17 18 9 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 17 18 19 20 21 22 33 14 15 16 21 22 33 14 12 23 33 14 12 20 20 21 22 33 14 19 20 20 21 22 33 14 19 20 20 21 22 33 14 19 20 20 21 22 33 14 19 20 20 21 22 33 14 19 20 20 21 22 23 34 19 20 20 21 22 23 34 19 20 20 21 22 23 34 19 20 20 21 22 23 34 24 20 20 21 22 23 24 24 24 24 24 24 24 24 24 24 24 24 24	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 tr Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01	23 24 25 26 29 30 31 <u>Metal Halide R</u> 23 24 25 26 6 27 28 29 30 31 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$22.42 \$16.42 \$17.55 \$18.86	
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Distribution Charge External Delivery Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge FOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Default Service Charge FOTAL Customer Charge Default Service Charge FOTAL	All kWh \$0.00000 \$0.02131 \$0.00018 \$0.00221 \$0.06993 \$0.06993 \$0.06993 \$0.09693 \$0.09693 \$0.0000 All kWh \$0.00000 \$0.02131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.0021 \$0.0021 \$0.0021 \$0.0021 \$0.0021 \$0.0000 \$0.00000 \$0.00000 \$0.00000 \$0.00000	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 3 \$15.67 4 \$0.00 5 \$0.00	111 12 13 14 15 16 17 18 19 20 21 22 Sodium Vapoo 21 22 Sodium Vapoo 21 11 12 13 14 15 16 17 18 19 20 21 21 22 Sodium Vapoo 21 11 12 23 3 14 15 16 16 17 7 18 19 20 20 21 11 12 22 21 11 12 21 21 21 21 21 21	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. r Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.170 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 // apor-Difference \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	23 24 25 26 27 28 29 30 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$22.42 \$16.42 \$17.55 \$18.86 \$20.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	
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Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge FOTAL Rates - Proposed December Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Customer Charge External Delivery Charge Storm Recovery Adj. Factor System Charge Storm Recovery Adj. Factor System Charge External Delivery Charge Stranded Cost Charge	All kWh \$0.0000 \$0.02131 \$0.0021 \$0.0021 \$0.00221 \$0.00231 \$0.0093 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.02131 \$0.0021 \$0.00330 \$0.09131 \$0.011831 Difference \$0.0000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 Dor-Difference 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 5 \$0.00 6 \$0.00 7 \$0.00 8 \$0.00	111 12 13 14 15 16 17 17 18 9 20 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 17 18 9 9 20 20 21 22 Sodium Vapo 11 12 22 Sodium Vapo 11 12 22 20 50 11 12 20 11 12 21 13 14 14 15 16 16 17 7 18 19 19 20 20 21 21 22 13 14 11 12 23 13 14 14 15 16 16 17 7 7 18 18 19 20 20 21 22 13 14 19 20 20 21 22 13 14 11 12 23 14 14 15 16 16 17 7 18 18 19 20 20 21 22 13 14 11 12 23 14 11 12 23 13 14 14 15 16 16 17 17 18 18 19 20 20 21 22 19 20 20 21 22 21 22 20 21 22 13 14 11 12 23 13 14 15 16 16 17 12 23 20 20 21 22 13 14 11 12 22 13 14 11 12 22 13 14 15 16 17 17 18 18 19 20 20 21 22 13 18 19 20 20 21 22 13 14 11 12 22 13 14 14 15 16 17 7 7 8 18 19 20 20 21 22 22 20 21 11 12 22 20 20 21 22 20 20 21 22 20 20 21 22 20 20 21 22 22 20 20 21 22 20 20 20 20 20 20 20 20 20 20 20 20	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 tr Rate/Mo. \$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.544 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 tr Rate/Mo. tr Rate/Mo. \$10.54 \$12.01 tr Rate/Mo. \$10.54 \$12.01 tr Rate/Mo. \$10.54 \$12.01 tr Rate/Mo. \$0.00	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27 28 29 30 31 <u>Metal Halide</u> 23 32 4 25 26 6 27 28 29 30 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$22.42 \$16.42 \$17.55 \$18.86 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$20.00 \$0.00	
Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Rates - Proposed December Customer Charge External Delivery Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Customer Charge Default Service Charge TOTAL Customer Charge Default Service Charge TOTAL	All kWh \$0.0000 \$0.02131 \$0.00018 \$0.0021 \$0.0030 \$0.06993 \$0.09693 \$0.09693 \$0.09693 \$0.0000 \$0.0000 \$0.0018 \$0.002131 \$0.002131 \$0.002131 \$0.002131 \$0.0018 \$0.002131 \$0.0018 \$0.00131 \$0.011831 Difference \$0.00 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000 \$0.0000	Mercury Vapo	1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 1 \$11.28 2 \$13.65 3 \$15.67 4 \$18.94 5 \$39.06 6 \$16.79 7 \$20.38 8 \$34.74 9 \$11.40 10 \$12.81 0 \$1	111 12 13 14 15 16 17 18 19 20 20 21 22 Sodium Vapo 11 12 13 14 15 16 17 18 19 20 20 21 22 Sodium Vapo 21 11 12 13 14 15 16 17 17 18 19 20 20 21 11 12 23 31 44 15 16 16 17 7 18 19 20 20 21 11 12 13 14 15 16 16 17 7 18 19 20 20 21 22 20 21 21 22 21 22 21 22 21 22 21 22 21 22 21 22 21 22 20 21 22 21 22 20 21 22 21 22 21 22 21 22 21 22 20 20 21 22 22 21 22 21 22 21 22 22 21 22 20 21 11 12 22 20 20 21 22 20 20 21 22 20 20 21 22 20 20 21 22 20 20 20 21 22 20 20 21 22 20 20 21 22 20 20 21 22 20 20 21 22 20 21 22 22 21 22 20 21 22 21 22 21 22 21 22 21 21 22 21 21	\$11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$18.47 \$21.18 \$38.90 \$10.54 \$12.01 r Rate/Mo. s 11.51 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$13.14 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$13.44 \$13.20 \$16.91 \$21.70 \$38.55 \$15.44 \$13.14 \$13.20 \$10.54 \$12.01 /apor-Difference \$0.00 \$	23 24 25 26 27 28 29 30 31 31 <u>Metal Halide R</u> 23 24 25 26 27 28 29 30 31 <u>Metal Halide</u> 23 32 4 25 26 6 27 28 29 30 31	\$17.65 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$19.32 \$20.09 \$20.62 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$22.42 \$16.42 \$17.55 \$18.86 \$22.38 \$22.42 \$16.42 \$17.55 \$18.86 \$20.00 \$0.00	

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

Residential Rate D 646 kWh Bill

Rate Components	Rates in effect 12/1/2014	Rates proposed for effect 12/1/2015	Difference	Bill under 12/1/2014 rates	Bill under proposed 12/1/2015 rates	\$ Difference	% Difference to Total Bill
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	\$0.03404	\$0.03404	\$0.00000	\$8.51	\$8.51	\$0.00	0.0%
Excess 250 kWh	\$0.03904	\$0.03904	\$0.00000	\$15.46	\$15.46	\$0.00	0.0%
External Delivery Charge	\$0.01852	\$0.02131	\$0.00279	\$11.96	\$13.77	\$1.80	1.2%
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.12	\$0.12	\$0.00	0.0%
Storm Recovery Adj.	\$0.00221	\$0.00221	\$0.00000	\$1.43	\$1.43	\$0.00	0.0%
System Benefits Charge	\$0.00330	\$0.00330	\$0.00000	\$2.13	\$2.13	\$0.00	0.0%
Default Service Charge	<u>\$0.15544</u>	\$0.09409	<u>(\$0.06135)</u>	<u>\$100.41</u>	<u>\$60.78</u>	<u>(\$39.63)</u>	(26.4%)
First 250 kWh	\$0.21369	\$0.15513	(\$0.05856)				
Excess 250 kWh	\$0.21869	\$0.16013	(\$0.05856)				
Total Bill			- -	\$150.29	\$112.46	(\$37.83)	(25.2%)

	Regular General G2 Demand, 11 kW, 2,800 kWh Typical Bill							
Rate Components	Rates in effect 12/1/2014	Rates proposed for effect 12/1/2015	Difference	Bill under 12/1/2014 rates	Bill under proposed 12/1/2015 rates	I \$ Difference	% Difference to Total Bill	
Customer Charge	\$18.41	\$18.41	\$0.00	\$18.41	\$18.41	\$0.00	0.0%	
Distribution Charge Stranded Cost Charge Total	<u>All kW</u> \$10.31 <u>\$0.04</u> \$10.35	<u>All kW</u> \$10.31 <u>\$0.04</u> \$10.35	\$0.00 <u>\$0.00</u> \$0.00	\$113.41 <u>\$0.44</u> \$113.85	\$113.41 <u>\$0.44</u> \$113.85	\$0.00 <u>\$0.00</u> \$0.00	0.0% <u>0.0%</u> 0.0%	
Distribution Charge	<u>\$/kWh</u> \$0.00000	<u>\$/kWh</u> \$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%	
External Delivery Charge Stranded Cost Charge Storm Recovery Adj.	\$0.01852 \$0.00004 \$0.00221	\$0.02131 \$0.00004 \$0.00221	\$0.00279 \$0.00000 \$0.00000	\$51.86 \$0.11 \$6.19	\$59.67 \$0.11 \$6.19	\$7.81 \$0.00 \$0.00	1.2% 0.0% 0.0%	
System Benefits Charge Default Service Charge Total	\$0.00330 <u>\$0.15265</u> \$0.17672	\$0.00330 <u>\$0.09131</u> \$0.11817	\$0.00000 (\$0.06134) (\$0.05855)	\$9.24 <u>\$427.42</u> \$494.82	\$9.24 <u>\$255.67</u> \$330.88	\$0.00 (<u>\$171.75)</u> (\$163.94)	0.0% <u>(27.4%)</u> (26.1%)	
Total		ψυ.11017	(#0.03833)	\$494.82 \$627.08	\$330.88 \$463.14	(\$163.94)	(26.1%)	

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

<u>Regular Gener</u>	al G2 Quick Reco	very Water He	ating and Spac	e Heating 1,62	0 kWh Typical Bill		
Rate Components	Rates in effect 12/1/2014	Rates proposed for effect 12/1/2015	Difference	Bill under 12/1/2014 rates	Bill under proposed 12/1/2015 rates	\$ Difference	% Difference to Total Bill
Customer Charge	\$6.25	\$6.25	\$0.00	\$6.25	\$6.25	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03073	\$0.03073	\$0.00000	\$49.78	\$49.78	\$0.00	0.0%
External Delivery Charge	\$0.01852	\$0.02131	\$0.00279	\$30.00	\$34.52	\$4.52	1.3%
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.29	\$0.29	\$0.00	0.0%
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	\$0.15265	\$0.09131	(\$0.06134)	\$247.29	\$147.92	(\$99.37)	<u>(29.0%)</u>
Total	\$0.20759	\$0.14904	(\$0.05855)	\$336.30	\$241.44	(\$94.85)	(27.7%)
Total B	ill			\$342.55	\$247.69	(\$94.85)	(27.7%)

Regular General G2 kWh Meter 125 kWh Typical Bill								
Rate Components	Rates in effect 12/1/2014	Rates proposed for effect 12/1/2015	Difference	Bill under 12/1/2014 rates	Bill under proposed 12/1/2015 rates	\$ Difference	% Difference to Total Bill	
Customer Charge	\$13.94	\$13.94	\$0.00	\$13.94	\$13.94	\$0.00	0.0%	
	<u>\$/kWh</u>	<u>\$/kWh</u>						
Distribution Charge	\$0.03211	\$0.03211	\$0.00000	\$4.01	\$4.01	\$0.00	0.0%	
External Delivery Charge	\$0.01852	\$0.02131	\$0.00279	\$2.32	\$2.66	\$0.35	0.9%	
Stranded Cost Charge	\$0.00018	\$0.00018	\$0.00000	\$0.02	\$0.02	\$0.00	0.0%	
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>\$0.15265</u>	<u>\$0.09131</u>	<u>(\$0.06134)</u>	<u>\$19.08</u>	<u>\$11.41</u>	<u>(\$7.67)</u>	<u>(19.1%)</u>	
Total	\$0.20897	\$0.15042	(\$0.05855)	\$26.12	\$18.80	(\$7.32)	(18.3%)	
Total B	ill		,	\$40.06	\$32.74	(\$7.32)	(18.3%)	