CALCULATION OF THE DEFAULT SERVICE CHARGE

Non-G1 Class Default Service:

1 I I I I I I I I I I I I I I I I I I I	Residential Class Reconciliation Total Costs Reconciliation plus Total Costs (L.1 + L.2) kWh Purchases Total, Before Losses (L.3 / L.4)	(\$47,414) \$2,408,295 \$2,360,881 <u>31,509,144</u> \$0.07493	(\$65,454) \$3,496,382 \$3,430,928 <u>43,498,146</u>	As shown (\$70,611) \$3,128,904 \$3,058,293 46,925,177	(\$54,852) \$2,581,527 \$2,526,675	M-2, Page 1 (\$55,562) \$2,614,687 \$2,559,125	(\$49,737) \$2,697,146 \$2,647,409	(\$343,630) \$16,926,942 \$16,583,311
1 I I 2 1 3 I 4 I	Reconciliation Total Costs Reconciliation plus Total Costs (L.1 + L.2) kWh Purchases Total, Before Losses (L.3 / L.4)	\$2,408,295 \$2,360,881 <u>31,509,144</u>	\$3,496,382 \$3,430,928	(\$70,611) \$3,128,904 \$3,058,293	(\$54,852) \$2,581,527	(\$55,562) \$2,614,687	\$2,697,146	\$16,926,942
1 I I 2 1 3 I 4 I	Reconciliation Total Costs Reconciliation plus Total Costs (L.1 + L.2) kWh Purchases Total, Before Losses (L.3 / L.4)	\$2,408,295 \$2,360,881 <u>31,509,144</u>	\$3,496,382 \$3,430,928	\$3,128,904 \$3,058,293	\$2,581,527	\$2,614,687	\$2,697,146	\$16,926,942
3 I	Reconciliation plus Total Costs (L.1 + L.2) kWh Purchases Total, Before Losses (L.3 / L.4)	\$2,360,881 31,509,144	\$3,430,928	\$3,058,293				
4 l	kWh Purchases Total, Before Losses (L.3 / L.4)	31,509,144			\$2,526,675	\$2,559,125	\$2,647,409	\$16 583 311
	Total, Before Losses (L.3 / L.4)		43,498,146	46 025 177				Ψ10,202,211
5]		\$0.07493		40,723,177	36,452,359	36,923,994	33,053,245	228,362,066
			\$0.07888	\$0.06517	\$0.06931	\$0.06931	\$0.08010	\$0.07262
6 I	Losses	6.40%	<u>6.40%</u>	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))	\$0.07972	\$0.08392	\$0.06934	\$0.07375	\$0.07374	\$0.08522	\$0.07727
	G2 and OL Class Reconciliation	(\$22,834)	(\$28,390)	(\$30,217)	(\$24,723)	(\$27,194)	(\$22,619)	(\$155,978)
10	Total Costs	\$989,505	\$1,445,851	\$1,296,935	\$1,084,490	\$904,382	\$1,141,148	\$6,862,312
11 I	Reconciliation plus Total Costs (L.9 + L.10)	\$966,671	\$1,417,461	\$1,266,718	\$1,059,767	\$877,188	\$1,118,529	\$6,706,334
12 k	kWh Purchases	15,171,431	18,863,021	20,076,830	16,426,885	18,068,617	15,028,943	103,635,726
13	Total, Before Losses (L.11 / L.12)	\$0.06372	\$0.07514	\$0.06309	\$0.06451	\$0.04855	\$0.07442	\$0.06471
14 I	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
15 (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))	\$0.06779	\$0.07995	\$0.06713	\$0.06864	\$0.05165	\$0.07919	\$0.06885

Renewable Portfolio Standard (RPS) Charge		As shown on Schedule LSM-3, Page 1									
17 Reconciliation	(\$145,933)	(\$194,953)	(\$209,462)	(\$165,311)	(\$171,918)	(\$150,314)	(\$1,037,891)				
18 Total Costs	\$140,077	\$187,128	\$201,054	<u>\$158,676</u>	\$165,020	\$144,282	\$996,238				
19 Reconciliation plus Total Costs (L.17 + L.18)	(\$5,855)	(\$7,825)	(\$8,408)	(\$6,634)	(\$6,897)	(\$6,032)	(\$41,653)				
20 kWh Purchases	46,680,575	62,361,168	67,002,007	52,879,245	54,992,611	48,082,188	331,997,793				
21 Total, Before Losses (L.19 / L.20)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)				
22 Losses	<u>6.40%</u>	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%				
23 Total Retail Rate - Variable RPS Charge (L.21 * (1+L.22)) 24 Total Retail Rate - Fixed RPS Charge (L.21 * (1+L.22))	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)				

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service Charge (L.7 + L.23)	\$0.07959	\$0.08379	\$0.06921	\$0.07362	\$0.07361	\$0.08509	
26	Total Retail Rate - Residential Fixed Default Service Charge (L.8+L.24)							\$0.07714
27	Total Retail Rate - G2 and OL Variable Default Service Charge (L.15 + L.23) Total Retail Rate - G2 and OL Fixed Default Service	\$0.06766	\$0.07982	\$0.06700	\$0.06851	\$0.05152	\$0.07906	
28	Charge (L.16+L.24)							\$0.06872

Authorized by NHPUC Order No.

in Case No. DE 19-049, dated

CALCULATION OF THE DEFAULT SERVICE CHARGE

Non-G1 Class Default Service:

		Dec-18	Jan-19	Feb-19	<u>Mar-19</u>	Apr-19	May-19	<u>Total</u>
	Power Supply Charge							
	Residential Class							
1	Reconciliation	(\$31,890)	(\$37,903)	(\$33,564)	(\$29,800)	(\$27,344)	(\$24,822)	(\$185,323)
2	Total Costs	\$5,222,880	\$5,962,587	\$4,836,675	\$4,309,997	\$ 2,610,072	\$2,974,149	\$25,916,359
3	Reconciliation plus Total Costs (L.1 + L.2)	\$5,190,990	\$5, 924,684	\$4,803,111	\$4,280,197	\$2,582,728	\$ 2,949,327	\$25,731,037
4	kWh Purchases	40,588,549	48,242,083	42,718,930	<u>37,928,196</u>	34,802,731	31,593,044	235,873,533
5	Total, Before Losses (L.3 / L.4)	\$0.12789	\$0.12281	\$0.11244	\$0.11285	\$0.07421	\$0.09335	\$0.10909
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>
	Total Retail Rate - Residential Variable Power Supply Charge (L.5 * $(1+L.6)$) Total Retail Rate - Residential Fixed Power Supply Charge (L.5 * $(1+L.6)$)	\$0.13608	\$0.13067	\$0.11963	\$ 0.12007	\$0.07896	\$0.09933	\$0.11607
9	G2 and OL Class Reconciliation	(\$12,812)	(\$14,509)	(\$13,402)	(\$12,601)	(\$12,541)	(\$12,092)	(\$77,957)
10	Total Costs	\$1,660,574	\$2,362,678	\$ 2,194,672	\$1,438,979	\$1,177,171	\$1,051,800	\$9,885,875
11	Reconciliation plus Total Costs (L.9 + L.10)	\$1,647,762	\$2,348,169	\$2,181,270	\$1,426,378	\$1,164,630	\$1,039,708	\$9,807,917
12	kWh Purchases	16,309,132	18,470,369	17,060,456	16,041,115	15,964,633	15,393,091	99,238,796
13	Total, Before Losses (L.11 / L.12)	\$0.10103	\$0.12713	\$0.12786	\$0.08892	\$0.07295	\$0.06754	\$0.09883
14	Losses	6.40%	<u>6.40%</u>	6.40%	<u>6.40%</u>	6.40%	6.40%	6.40%
	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))	\$0.10750	\$ 0.13527	\$ 0.13604	\$0.09461	\$ 0.07762	\$0.07187	\$0.10516

Renewable Portfolio Standard (RPS) Charge							
17 Reconciliation	(\$139,400)	(\$163,446)	(\$146,460)	(\$132,225)	(\$124,380)	(\$115,116)	(\$821,028)
18 Total Costs	\$164,629	<u>\$219,531</u>	<u>\$196,717</u>	\$177,599	\$167,064	\$154,623	<u>\$1,080,163</u>
19 Reconciliation plus Total Costs (L.17 + L.18)	\$25,229	\$56,085	\$50,257	\$45,374	\$42,684	\$39,506	\$259,135
20 kWh Purchases	56,897,681	66,712,453	59,779,387	53,969,311	50,767,363	46,986,135	335,112,329
21 Total, Before Losses (L.19 / L.20)	\$0.00044	\$0.00084	\$0.00084	\$0.00084	\$0.00084	\$0.00084	\$0.00077
22 Losses	6.40%	6.40%	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	<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)) 	\$0.00047	\$0.00089	\$0.00089	\$0.00089	\$0.00089	\$0.00089	\$0.00082

	TOTAL DEFAULT SERVICE CHARGE							
25	Total Retail Rate - Residential Variable Default Service Charge (L.7 + L.23)	\$0.13655	\$0.13156	\$0.12052	\$0.12096	\$0.07985	\$0.10022	
26	Total Retail Rate - Residential Fixed Default Service Charge (L.8+L.24)							\$0.11689
27	Total Retail Rate - G2 and OL Variable Default Service Charge (L.15 + L.23) Total Retail Rate - G2 and OL Fixed Default Service	\$0.10797	\$0.13616	\$0.13693	\$0.09550	\$ 0.07851	\$0.07276	
28	Charge (L.16+L.24)							\$0.10598

CALCULATION OF THE DEFAULT SERVICE CHARGE

G1 Class Default Service:										
	GI Class Default Service:	<u>Jun-19</u>	<u>Jul-19</u>	Aug-19	Sep-19	Oct-19 SM-4, Page	Nov-19	<u>Total</u>		
	Power Supply Charge			713 SHOWH O	ii Schedule I	251VI-4, I age	1			
1	Reconciliation							(\$1,576)		
2	Total Costs excl. wholesale supplier charge							<u>\$24,908</u>		
3	Reconciliation plus Total Costs excl. wholesale supplier charge $(L.1 + L.2)$							\$23,332		
4	kWh Purchases							23,008,856		
5	Total, Before Losses (L.3 / L.4)							\$0.00101		
6	Losses							<u>4.591%</u>		
7	Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6)) (2)	\$0.00106	\$0.00106	\$0.00106	\$0.00106	\$0.00106	\$0.00106	\$0.00106		
	Wholesale Supplier Charge Losses Retail Rate - Wholesale Supplier Charge (L.8a *	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%			
	(1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET			
9	Total Retail Rate - Power Supply Charge (L.7 \pm L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET			
	Renewable Portfolio Standard (RPS) Charge			As shown o	n Schedule I	SM-5, Page	1			
10	Reconciliation	(\$12,099)	(\$13,876)	(\$13,174)	(\$12,515)	(\$12,622)	(\$10,922)	(\$75,208)		
11	Total Costs	<u>\$11,283</u>	<u>\$12,940</u>	<u>\$12,286</u>	<u>\$11,671</u>	<u>\$11,771</u>	<u>\$10,186</u>	<u>\$70,138</u>		
12	Reconciliation plus Total Costs (L.10+ L.11)	(\$816)	(\$936)	(\$888)	(\$844)	(\$851)	(\$736)	(\$5,071)		
13	kWh Purchases	3,701,568	4,245,116	4,030,393	3,828,806	3,861,455	3,341,517	23,008,856		
14	Total, Before Losses (L.12 / L.13)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)			
15	Losses	4.591%	4.591%	4.591%	4.591%	4.591%	<u>4.591%</u>			
16	Total Retail Rate - RPS Charge (L.14 * (1+L.15))	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)			
	TOTAL DEFAULT SERVICE OF ADOL									

TOTAL DEFAULT SERVICE CHARGE

17 Total Retail Rate - Default Service Charge (L.9 + L.16)

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Authorized by NHPUC Order No.

in Case No. DE 19-049, dated

Issued: April 5, 2019 Effective: June 1, 2019 Issued By: Christine Vaughan Sr. Vice President

17 Total Retail Rate - Default Service Charge (L.9 +

L.16)

CALCULATION OF THE DEFAULT SERVICE CHARGE

	G1 Class Default Service:	Dec 18	Jan 19	Feb 19	<u>Mar-19</u>	<u>Apr 19</u>	<u>May-19</u>	Total
	Power Supply Charge							
1	Reconciliation							\$18,084
2	Total Costs excl. wholesale supplier charge							\$30,930
3	Reconciliation plus Total Costs excl. wholesale supplier charge $(L.1 + L.2)$							\$49,015
4	kWh Purchases							<u>20,692,676</u>
5	Total, Before Losses (L.3 / L.4)							\$0.00237
6	Losses							<u>4.591%</u>
7	Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6)) (2)	\$0.00248						
	Wholesale Supplier Charge Losses Retail Rate - Wholesale Supplier Charge (L.8a *	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	MARKET 4.591%	
	(1+L.8b))	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
9	Total Retail Rate - Power Supply Charge (L.7 + L. 8)	MARKET	MARKET	MARKET	MARKET	MARKET	MARKET	
	Renewable Portfolio Standard (RPS) Charge							
10	Reconciliation	(\$7,175)	(\$7,101)	(\$6,763)	(\$6,786)	(\$6,543)	(\$6,626)	(\$40,995)
11	Total Costs	<u>\$10,653</u>	<u>\$11,990</u>	<u>\$11,420</u>	<u>\$11,459</u>	<u>\$11,048</u>	<u>\$11,188</u>	\$67,757
12	Reconciliation plus Total Costs (L.10+ L.11)	\$3,477	\$4,889	\$4,656	\$4,672	\$4,505	\$4,562	\$26,762
13	kWh Purchases	3,621,892	3,584,257	3,413,843	3,425,473	3,302,634	3,344,576	20,692,676
14	Total, Before Losses (L.12 / L.13)	\$0.00096	\$0.00136	\$0.00136	\$0.00136	\$0.00136	\$0.00136	
15	Losses	<u>4.591%</u>	4.591%	4.591%	4.591%	4.591%	<u>4.591%</u>	
16	Total Retail Rate - RPS Charge (L.14 * (1+L.15))	\$0.00100	\$0.00143	\$0.00143	\$0.00143	\$0.00143	\$0.00143	
	TOTAL DEFAULT SERVICE CHARGE							

Authorized by NHPUC Order No. 26,180 in Case No. DE 18-035, dated October 5, 2018

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		Jun-19 Estimated	Jul-19 <u>Estimated</u>	Aug-19 Estimated	Sep-19 Estimated	Oct-19 Estimated	Nov-19 Estimated	<u>Total</u>
1	Residential Class Reconciliation (1)	(\$47,414)	(\$65,454)	(\$70,611)	(\$54,852)	(\$55,562)	(\$49,737)	(\$343,630)
2	Total Costs (Page 5)	\$2,408,295	\$3,496,382	\$3,128,904	\$2,581,527	\$2,614,687	\$2,697,146	\$16,926,942
3	Reconciliation plus Total Costs (L.1 + L.2)	\$2,360,881	\$3,430,928	\$3,058,293	\$2,526,675	\$2,559,125	\$2,647,409	\$16,583,311
4	kWh Purchases	31,509,144	43,498,146	46,925,177	36,452,359	36,923,994	33,053,245	228,362,066
5	Total, Before Losses (L.3 / L.4)	\$0.07493	\$0.07888	\$0.06517	\$0.06931	\$0.06931	\$0.08010	\$0.07262
6	Losses	6.40%	6.40%	6.40%	<u>6.40%</u>	6.40%	<u>6.40%</u>	6.40%
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))	\$0.07972	\$0.08392	\$0.06934	\$0.07375	\$0.07374	\$0.08522	\$0.07727
9	G2 and OL Class Reconciliation (1)	(\$22,834)	(\$28,390)	(\$30,217)	(\$24,723)	(\$27,194)	(\$22,619)	(\$155,978)
10	Total Costs (Page 5)	\$989,505	<u>\$1,445,851</u>	\$1,296,935	\$1,084,490	\$904,382	<u>\$1,141,148</u>	\$6,862,312
11	Reconciliation plus Total Costs (L.9 + L.10)	\$966,671	\$1,417,461	\$1,266,718	\$1,059,767	\$877,188	\$1,118,529	\$6,706,334
12	kWh Purchases	15,171,431	18,863,021	20,076,830	16,426,885	18,068,617	15,028,943	103,635,726
13	Total, Before Losses (L.11 / L.12)	\$0.06372	\$0.07514	\$0.06309	\$0.06451	\$0.04855	\$0.07442	\$0.06471
14	Losses	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%	6.40%
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))	\$0.06779	\$0.07995	\$0.06713	\$0.06864	\$0.05165	\$0.07919	\$0.06885

(1) Balance as of February 28, 2019 modified, as detailed below, to include the reconciliation of estimated costs and revenues for March, April and May 2019. Figure is then allocated between rate periods (June-November 2019 and December 2019-May 2020) and rate classes (Residential and G2/OL), and then to each month, June through November 2019, on equal per kWh basis.

Definition (Julie-November 2019 and December 2019-Ivialy 2020) and fate classes (Residential and	u G2/OL), and then to each h	ionin, June in	ough November
a February 28, 2019 balance - Schedule LSM-2, Page 2			\$939,866
b less: Estimated remaining prior period reconciliation - Mar, Apr, May 2019:			
c Estimated costs - Mar, Apr, May 2019 as filed in DE 18-035			\$13,562,168
d Estimated revenue-Mar, Apr, May 2019			\$15,500,850
e line c - line d			(\$1,938,682)
f Reconciliation for June 1, 2019-May 31, 2020 (line a + line e)			(\$998,816)
	Non-G1 total		Reconciliation
	kWh purchases	% per period	per period
g Rate period: June-November 2019	331,997,793	50.02%	(\$499,608)
h Rate period: December 2019-May 2020	331,748,784	49.98%	(\$499,208)
i Total	663,746,577		(\$998,816)
			Jun-Nov 2019
	Jun-Nov 2019		Reconciliation
	kWh purchases	% by class	by class
i Residential class	228,362,066	68.78%	(\$343,630)
k G2 and OL class	103,635,726	31.22%	(\$155,978)
/ Total	331.997.793	- · · - / ·	(\$499,608)
	201,001,100		(+ .20,000)

Schedule LSM-2 Page 2 of 5

		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
					Ending Balance			Number of		
			Total Costs (Page	Total Revenue	Before Interest	Average Monthly		Days /	Computed	Ending Balance with
		Beginning Balance	3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Interest Rate	Month	Interest	Interest (d + h)
	Mar-18	\$1,490,731	\$4,319,314	\$4,764,244	\$1,045,801	\$1,268,266	4.25%	31	\$4,569	\$1,050,369.69
	Apr-18	\$1,050,370	\$3,168,093	\$4,048,270	\$170,193	\$610,281	4.50%	30	\$2,257	\$172,449.93
	May-18	\$172,450	\$3,000,531	\$4,004,374	(\$831,393)	(\$329,472)	4.50%	31	(\$1,259)	(\$832,652)
	Jun-18	(\$832,652)	\$3,806,949	\$3,827,765	(\$853,468)	(\$843,060)	4.50%	30	(\$3,118)	(\$856,586)
	Jul-18	(\$856,586)	\$4,889,594	\$5,340,901	(\$1,307,894)	(\$1,082,240)	4.75%	31	(\$4,366)	(\$1,312,260)
	Aug-18	(\$1,312,260)	\$4,754,604	\$4,899,870	(\$1,457,525)	(\$1,384,892)	4.75%	31	(\$5,587)	(\$1,463,112)
	Sep-18	(\$1,463,112)	\$4,176,412	\$4,217,981	(\$1,504,681)	(\$1,483,897)	4.75%	30	(\$5,793)	(\$1,510,475)
_	Oct-18	(\$1,510,475)	\$3,781,605	\$3,466,512	(\$1,195,382)	(\$1,352,928)	5.00%	31	(\$5,745)	(\$1,201,127)
002	Nov-18	(\$1,201,127)	\$4,205,566	\$3,849,602	(\$845,162)	(\$1,023,145)	5.00%	30	(\$4,205)	(\$849,367)
4	Dec-18	(\$849,367)	\$7,347,515	\$6,638,989	(\$140,841)	(\$495,104)	5.00%	31	(\$2,102)	(\$142,943)
	Jan-19	(\$142,943)	\$7,780,574	\$7,143,597	\$494,033	\$175,545	5.25%	31	\$783	\$494,816
	Feb-19	\$494,816	\$6,384,498	\$5,942,331	\$936,983	\$715,899	5.25%	28	\$2,883	\$939,866
	Total		\$57,615,256	\$58,144,437					(\$21,684)	

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

Schedule LSM-2 Page 3 of 5

			Supplie	Calculation of Wer Charges and G	. ,	yments						
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)
	Total Non-G1 Class DS Supplier Charges	GIS Support Payments	Number of Days of Lag / 365 (1)	Working Capital Requirement ((a+b)*c)	Prime Rate	Supply Related Working Capital (d * e)	Provision for Uncollected Accounts	Internal Company Administrative Costs	Legal Charges	Consulting Outside Service Charges	Default Service Portion of the annual PUC Assessment	Total Costs (sum a + b + f + g + h + i + j + k)
Mar-18	\$4,302,875	\$387	7.27%	\$313,018	4.58%	\$14,336	(\$912)	\$2,790	(\$952)	\$0	\$789	\$4,319,314
Apr-18	\$3,051,011	\$314	7.27%	\$221,953	4.75%	\$10,543	\$102,648	\$2,790	\$0	\$0	\$787	\$3,168,093
May-18	\$2,976,444	\$369	7.27%	\$216,533	4.75%	\$10,285	\$9,381	\$2,790	\$529	\$0	\$733	\$3,000,531
_ Jun-18	\$3,712,957	\$281	7.18%	\$266,641	4.89%	\$13,039	\$77,137	\$2,790	\$0	\$0	\$746	\$3,806,949
S Jul-18	\$4,805,676	\$303	7.18%	\$345,109	5.00%	\$17,255	\$62,789	\$2,790	\$0	\$0	\$781	\$4,889,594
ਹ Aug-18	\$4,692,684	\$758	7.18%	\$337,028	5.00%	\$16,851	\$40,736	\$2,790	\$0	\$0	\$786	\$4,754,604
Sep-18	\$4,145,069	\$430	7.18%	\$297,681	5.03%	\$14,973	\$12,363	\$2,790	\$0	\$0	\$786	\$4,176,412
Oct-18	\$3,679,210	\$432	7.18%	\$264,229	5.25%	\$13,872	\$84,193	\$2,790	\$332	\$0	\$777	\$3,781,605
Nov-18	\$4,156,967	\$413	7.18%	\$298,534	5.25%	\$15,673	\$28,419	\$2,790	\$521	\$0	\$784	\$4,205,566
Dec-18	\$7,230,936	\$312	7.18%	\$519,263	5.35%	\$27,781	\$84,735	\$2,961	\$0	\$0	\$791	\$7,347,515
Jan-19	\$7,690,820	\$345	7.18%	\$552,289	5.50%	\$30,376	\$55,281	\$2,961	\$0	\$0	\$790	\$7,780,574
Feb-19	\$6,314,335	<u>\$452</u>	7.18%	\$453,454	5.50%	\$24,940	\$41,022	<u>\$2,961</u>	<u>\$0</u>	<u>\$0</u>	<u>\$788</u>	\$6,384,498
Total	\$56,758,983	\$4,797				\$209,925	\$597,792	\$33,993	\$430	\$0	\$9,337	\$57,615,256

⁽¹⁾ For the months March-May 2018, number of days lag equals 26.55. Calculated using revenue lag of 61.15 days less cost lead of 34.60 days. Revenue lag per Schedule DN-1, Page 4 of 23 and cost lead per Schedule DN-1, Page 2 of 23, DE 17-038 filed April 3, 2017.

For the months June 2018-February 2019, number of days lag equals 26.21. Calculated using revenue lag of 64.11 days less cost lead of 37.90 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 18-035 filed April 6, 2018.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)
	Total Residential Class Billed		Residential	Effective Fixed	Residential Class Unbilled Power	Total G2/OL Class Billed		G2/OL Class	Effective Fixed	G2/OL Class Unbilled Power		Total Billed Non- G1 Class Power	
	Default Service	Unbilled Factor	Class Unbilled	Power Supply	Supply Charge	Default Service	Unbilled	Unbilled kWh	Power Supply	Supply Charge	Reversal of prior	Supply Charge	Total Revenue
	kWh (1)	(2)	kWh (a * b)	Charge	Revenue (c * d)	kWh (1)	Factor (2)	(f * g)	Charge	Revenue (h * i)	month unbilled	Revenue (1)	(e + j + k + l)
M== 40	05 000 700	40.00/	47.450.440	00 00040	04.040.470	11,000,000	40.00/	7.450.040	#0.000F0	6040.000	(00.005.007)	04.704.000	04.704.044
Mar-18	35,032,736	49.0%	17,150,148	\$0.09612	\$1,648,472	14,606,069	49.0%	7,150,348	\$0.08959	\$640,600	(\$2,225,897)	\$4,701,069	\$4,764,244
Apr-18	32,284,752	47.2%	15,239,398	\$0.09612	\$1,464,811	13,809,110	47.2%	6,518,325	\$0.08959	\$583,977	(\$2,289,072)	\$4,288,554	\$4,048,270
May-18	29,208,802	50.3%	14,679,308	\$0.09612	\$1,410,975	14,345,693	50.3%	7,209,636	\$0.08959	\$645,911	(\$2,048,788)	\$3,996,276	\$4,004,374
Jun-18	32,908,337	47.5%	15,628,983	\$0.08067	\$1,260,790	15,747,520	47.5%	7,478,887	\$0.07206	\$538,929	(\$2,056,886)	\$4,084,933	\$3,827,765
Jul-18	41,032,931	57.1%	23,420,241	\$0.08067	\$1,889,311	17,274,015	57.1%	9,859,437	\$0.07206	\$710,471	(\$1,799,719)	\$4,540,838	\$5,340,901
Aug-18	47,925,531	43.4%	20,811,399	\$0.08067	\$1,678,856	19,065,299	43.4%	8,279,001	\$0.07206	\$596,585	(\$2,599,782)	\$5,224,211	\$4,899,870
Sep-18	41,118,973	42.5%	17,477,885	\$0.08067	\$1,409,941	17,253,753	42.5%	7,333,819	\$0.07206	\$528,475	(\$2,275,440)	\$4,555,006	\$4,217,981
Oct-18	31,079,971	51.3%	15,955,331	\$0.08067	\$1,287,117	14,683,599	51.3%	7,538,028	\$0.07206	\$543,190	(\$1,938,416)	\$3,574,622	\$3,466,512
Nov-18	32,182,968	56.6%	18,226,825	\$0.08067	\$1,470,358	14,108,187	56.6%	7,990,172	\$0.07206	\$575,772	(\$1,830,307)	\$3,633,779	\$3,849,602
Dec-18	40,169,268	49.0%	19,693,126	\$0.11607	\$2,285,781	17,049,261	49.0%	8,358,460	\$0.10516	\$878,976	(\$2,046,130)	\$5,520,362	\$6,638,989
Jan-19	43,145,496	51.0%	22,003,751	\$0.11607	\$2,553,975	16,704,832	51.0%	8,519,289	\$0.10516	\$895,888	(\$3,164,757)	\$6,858,490	\$7,143,597
G Feb-19	39,637,517	46.1%	18,292,062	\$0.11607	\$2,123,160	16,698,220	46.1%	7,705,954	\$0.10516	\$810,358	(\$3,449,864)	\$6,458,677	\$5,942,331
O Feb-19 Total	445,727,282				\$20,483,546	191,345,558		, ,		\$7,949,132	(\$27,725,057)	\$57,436,816	\$58,144,437
22	, ,				 ,,	,,				* . , ,	(+,,,	***, ***, ***	***, ,
6													
(1) Per billing system													
(2) Detail of Unbilled	Factors for the Resi	dential, Regular G	eneral, and Outdo	or Lighting Classes	3:								

	Non-G1 Class Billed kWh	Direct Estimate of Unbilled kWh	Unbilled kWh / Billed kWh
Mar-18	68,879,256	33,719,588	49.0%
Apr-18	64,217,279	30,312,535	47.2%
May-18	60,863,278	30,587,725	50.3%
Jun-18	68,002,641	32,296,136	47.5%
Jul-18	78,898,307	45,032,546	57.1%
Aug-18	90,022,732	39,091,877	43.4%
Sep-18	78,785,456	33,488,266	42.5%
Oct-18	63,358,386	32,525,899	51.3%
Nov-18	62,957,572	35,656,024	56.6%
Dec-18	76,154,243	37,334,887	49.0%
Jan-19	79,099,974	40,340,158	51.0%
Feb-19	74,824,924	34,530,472	46.1%

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Redacted

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

					ation of Working											
				Supplier Char	ges and GIS Sup	port Payments										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(I)	(m)	(n)	(0)	(p)
	Non-G1 Class	Non-G1 Class			Working				Internal			Default Service	Non-G1 Class	Non-G1 Class (G2		
	(Residential)	(G2 and OL)		Number of	Capital		Supply Related	Provision for	Company		Consulting	Portion of the	(Residential) DS	and OL) DS	Costs (sum col. c	Total All Costs
	DS Supplier	DS Supplier	GIS Support	Days of Lag /	Requirement		Working Capital	Uncollected	Administrative		Outside Service	annual PUC	Supplier Charges	Supplier Charges	+ g + h + i + j + k	(sum col. m + n
	Charges (1)	Charges (1)	Payments	365 (2)	((a+b+c)*d)	Prime Rate	(e * f)	Accounts	Costs	Legal Charges	Charges	Assessment	(col. a)	(col. b)	+ I)	+ 0)
Jun-19			\$426	7.49%		5.50%			\$2,961	\$0	\$0	\$778				\$3,397,800
Jul-19			\$423	7.49%		5.50%			\$2,961	\$0	\$0	\$778				\$4,942,233
Aug-19			\$565	7.49%		5.50%			\$2,961	\$0	\$0	\$778				\$4,425,839
Sep-19			\$607	7.49%		5.50%			\$2,961	\$0	\$0	\$778				\$3,666,017
Oct-19			\$479	7.49%		5.50%			\$2,961	\$0	\$0	\$778				\$3,519,069
Nov-19			\$498	7.49%		5.50%			\$2,961	<u>\$0</u>	<u>\$0</u>	<u>\$778</u>				\$3,838,294
Total			\$2,998						\$17,767	\$0	\$0	\$4,670				\$23,789,254

00 21 7 Total Costs Allocated to the Residential Class and the G2/OL Class

	Non-G1 Class (Residential) DS Supplier Charges (col. a)	Allocation of Remaining Costs (col. o) to Residential Class (3)	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)
Jun-19 Jul-19 Aug-19 Sep-19 Oct-19			\$2,408,295 \$3,496,382 \$3,128,904 \$2,581,527 \$2,614,687			\$989,505 \$1,445,851 \$1,296,935 \$1,084,490 \$904,382
Nov-19 Total			\$2,697,146 \$16,926,942			\$1,141,148 \$6,862,312

- (1) Estimates based on monthly average wholesale rate times estimated monthly purchases.
 (2) Number of days lag equals 27.35. Calculated using revenue lag of 63.94 days less cost lead of 36.59 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 19-049 filed April 5, 2019.
 (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
Jun-19	31,509,144	15,171,431	46,680,575	67.5%	32.5%
Jul-19	43,498,146	18,863,021	62,361,168	69.8%	30.2%
Aug-19	46,925,177	20,076,830	67,002,007	70.0%	30.0%
Sep-19	36,452,359	16,426,885	52,879,245	68.9%	31.1%
Oct-19	36,923,994	18,068,617	54,992,611	67.1%	32.9%
Nov-19	33,053,245	15,028,943	48,082,188	68.7%	31.3%
Total	228,362,066	103,635,726	331,997,793		

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

		Jun-19 Estimated	Jul-19 Estimated	Aug-19 Estimated	Sep-19 Estimated	Oct-19 Estimated	Nov-19 Estimated	<u>Total</u>
1	Reconciliation (1)	(\$145,933)	(\$194,953)	(\$209,462)	(\$165,311)	(\$171,918)	(\$150,314)	(\$1, 037,8 91)
2	Total Costs (Page 5)	\$140,077	<u>\$187,128</u>	<u>\$201,054</u>	<u>\$158,676</u>	<u>\$165,020</u>	<u>\$144,282</u>	<u>\$996,238</u>
3	Reconciliation plus Total Costs (L.1 + L.2)	(\$5,855)	(\$7,825)	(\$8,408)	(\$6,634)	(\$6,897)	(\$6,032)	(\$41,653)
4	kWh Purchases	46,680,575	62,361,168	67,002,007	<u>52,879,245</u>	<u>54,992,611</u>	48,082,188	331,997,793
5 00	Total, Before Losses (L.3 / L.4)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)
02069	Losses	<u>6.40%</u>	<u>6.40%</u>	<u>6.40%</u>	6.40%	<u>6.40%</u>	<u>6.40%</u>	6.40%
7 8	Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6)) Total Retail Rate - Fixed RPS Charge (L.5 * (1+L.6))	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)	(\$0.00013)

(1) Balance as of February 28, 2019 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2019. Figure is then allocated between rate periods (June-November 2019 and December 2019-May 2020) and then to each month, June through November 2019, on equal per kWh basis.

a February 28, 2019 actual balance - Schedule LSM-3, Page 2 (\$2,447,129)

b less: Estimated remaining prior period reconciliation - Mar, Apr, May 2019:

С	Estimated kWh Sales Mar-May 2019	142,596,625
d	Amount of reconciliation in current RPS Charge	<u>(\$0.00261)</u>
е	Estimated amount of reconciliation - Mar-May 2019	(\$372,177)

f Total reconciliation for June 1, 2019-May 31, 2020 (line a - line e) (\$2,074,951)

	Non-G1 total		Reconciliation
	kWh purchases	% per period	per period
g Rate period: June-November 2019	331,997,793	50.02%	(\$1,037,891)
h Rate period: December 2019-May 2020	331,748,784	49.98%	(\$1,037,061)
i Total	663,746,577		(\$2,074,951)

Schedule LSM-3 Page 2 of 5

		(a)	(b)	(c)	(d) Ending Balance	(e)	(f)	(g) Number of	(h)	(i)
			Total Costs (Page	Total Revenue	Before Interest	Average Monthly	Interest	Days /	Computed	Ending Balance with
		Beginning Balance	3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Rate	Month	Interest	Interest (d + h)
	Mar-18	(\$1,877,721)	\$259,968	\$212,622	(\$1,830,376)	(\$1,854,048)	4.25%	31	(\$6,692)	(\$1,837,068)
	Apr-18	(\$1,837,068)	\$274,755	\$183,958	(\$1,746,271)	(\$1,791,669)	4.50%	30	(\$6,627)	(\$1,752,898)
	May-18	(\$1,752,898)	\$274,755	\$184,470	(\$1,662,613)	(\$1,707,755)	4.50%	31	(\$6,527)	(\$1,669,140)
	Jun-18	(\$1,669,140)	(\$225,582)	\$85,514	(\$1,980,236)	(\$1,824,688)	4.50%	30	(\$6,749)	(\$1,986,985)
	Jul-18	(\$1,986,985)	\$232,718	\$117,143	(\$1,871,410)	(\$1,929,197)	4.75%	31	(\$7,783)	(\$1,879,192)
	Aug-18	(\$1,879,192)	\$232,718	\$107,359	(\$1,753,833)	(\$1,816,513)	4.75%	31	(\$7,328)	(\$1,761,161)
	Sep-18	(\$1,761,161)	\$285,454	\$92,494	(\$1,568,202)	(\$1,664,681)	4.75%	30	(\$6,499)	(\$1,574,701)
_	Oct-18	(\$1,574,701)	(\$321,339)	\$76,018	(\$1,972,058)	(\$1,773,379)	5.00%	31	(\$16,525) (1)	(\$1,988,583)
00220	Nov-18	(\$1,988,583)	\$238,184	\$83,800	(\$1,834,199)	(\$1,911,391)	5.00%	30	(\$7,855)	(\$1,842,054)
20	Dec-18	(\$1,842,054)	(\$779,076)	\$49,358	(\$2,670,488)	(\$2,256,271)	5.00%	31	(\$9,581)	(\$2,680,069)
	Jan-19	(\$2,680,069)	\$152,964	\$50,410	(\$2,577,515)	(\$2,628,792)	5.25%	31	(\$11,722)	(\$2,589,237)
	Feb-19	(\$2,589,237)	<u>\$195,092</u>	\$42,862	(\$2,437,007)	(\$2,513,122)	5.25%	28	(\$10,121)	(\$2,447,129)
	Total		\$820,610	\$1,286,008					(\$104,009)	

⁽¹⁾ Includes (\$8,994) to related to correction to June 2018 costs and working capital.

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

Schedule LSM-3 Page 3 of 5

	(a)	(b)	(c)	(d)	(e)	(f)
			Working			
		Number of	Capital			
		Days of Lag /	Requirement		Supply Related Working	
	Renewable Energy Credits	365 (1)	(a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
Mar-18	\$269,736	(79.07%)	(\$213,268)	4.58%	(\$9,768)	\$259,968
Apr-18	\$285,476	(79.07%)	(\$225,714)	4.75%	(\$10,721)	\$274,755
May-18	\$285,476	(79.07%)	(\$225,714)	4.75%	(\$10,721)	\$274,755
Jun-18	(\$232,982)	(64.96%)	\$151,336	4.89%	\$7,400	(\$225,582)
Jul-18	\$240,530	(64.96%)	(\$156,239)	5.00%	(\$7,812)	\$232,718
Aug-18	\$240,530	(64.96%)	(\$156,239)	5.00%	(\$7,812)	\$232,718
Sep-18	\$295,095	(64.96%)	(\$191,683)	5.03%	(\$9,642)	\$285,454
Oct-18	(\$331,286)	(64.96%)	\$215,190	5.25%	\$9,946 (2)	(\$321,339)
Nov-18	\$246,593	(64.96%)	(\$160,177)	5.25%	(\$8,409)	\$238,184
Dec-18	(\$807,124)	(64.96%)	\$524,277	5.35%	\$28,049	(\$779,076)
Jan-19	\$158,631	(64.96%)	(\$103,041)	5.50%	(\$5,667)	\$152,964
Feb-19	<u>\$202,320</u>	(64.96%)	(\$131,419)	5.50%	(\$7,228)	\$195,092
Total	\$852,995				(\$32,385)	\$820,610

⁽¹⁾ For the months March-May 2018, number of days lag equals (288.59). Calculated using revenue lag of 61.15 days less cost lead of 349.74 days. Revenue lag per Schedule DN-1, Page 4 of 23 and cost lead per Schedule DN-1, Page 22 of 23, DE 17-038 filed April 3, 2017.

For the months June 2018-February 2019, number of days lag equals (237.09). Calculated using revenue lag of 64.11 days less cost lead of 301.20 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 18-035 filed April 6, 2018.

⁽²⁾ Includes (\$1,351.33) to correct working capital for entry made in June 2018.

	(a) Total Non-G1	(b)	(c) Non-G1 Class	(d)	(e) Non-G1 Class	(f)	(g) Total Billed Non- G1 Class RPS	(h)
	Class Billed Default Service	Unbilled Factor	Unbilled kWh	Effective Fixed	Unbilled RPS Charge Revenue	Reversal of prior month	Charge Revenue	Total Revenue
	kWh (1)	(2)	(a * b)	RPS Charge	(c * d)	unbilled	(1)	(e + f + g)
Mar-18	49,638,805	49.0%	24,300,495	\$0.00422	\$102,548	(\$99,576)	\$209,650	\$212,622
Apr-18	46,093,862	47.2%	21,757,723	\$0.00422	\$91,818	(\$102,548)	\$194,688	\$183,958
May-18	43,554,495	50.3%	21,888,944	\$0.00422	\$92,371	(\$91,818)	\$183,916	\$184,470
Jun-18	48,655,857	47.5%	23,107,870	\$0.00171	\$39,514	(\$92,371)	\$138,371	\$85,514
Jul-18	58,306,946	57.1%	33,279,678	\$0.00171	\$56,908	(\$39,514)	\$99,749	\$117,143
Aug-18	66,990,830	43.4%	29,090,400	\$0.00171	\$49,745	(\$56,908)	\$114,522	\$107,359
Sep-18	58,372,726	42.5%	24,811,703	\$0.00171	\$42,428	(\$49,745)	\$99,811	\$92,494
Oct-18	45,763,570	51.3%	23,493,358	\$0.00171	\$40,174	(\$42,428)	\$78,272	\$76,018
Nov-18	46,291,155	56.6%	26,216,998	\$0.00171	\$44,831	(\$40,174)	\$79,143	\$83,800
Dec-18	57,218,529	49.0%	28,051,586	\$0.00082	\$23,002	(\$44,831)	\$71,187	\$49,358
Jan-19	59,850,328	51.0%	30,523,040	\$0.00082	\$25,029	(\$23,002)	\$48,383	\$50,410
Feb-19	56,335,737	46.1%	25,998,016	\$0.00082	\$21,318	(\$25,029)	\$46,573	\$42,862
Total	637,072,840				\$629,687	(\$707,944)	\$1,364,266	\$1,286,008

⁽¹⁾ Per billing system

⁽²⁾ Detail of Unbilled Factors for the Residential, Regular General, and Outdoor Lighting Classes:

		Direct	
	Billed	Estimate of	Unbilled kWh /
	kWh	Unbilled kWh	Billed kWh
Mar-18	68,879,256	33,719,588	49.0%
Apr-18	64,217,279	30,312,535	47.2%
May-18	60,863,278	30,587,725	50.3%
Jun-18	68,002,641	32,296,136	47.5%
Jul-18	78,898,307	45,032,546	57.1%
Aug-18	90,022,732	39,091,877	43.4%
Sep-18	78,785,456	33,488,266	42.5%
Oct-18	63,358,386	32,525,899	51.3%
Nov-18	62,957,572	35,656,024	56.6%
Dec-18	76,154,243	37,334,887	49.0%
Jan-19	79,099,974	40,340,158	51.0%
Feb-19	74,824,924	34,530,472	46.1%

Unitil Energy Systems, Inc. Itemized Costs for Non-G1 Class Default Service Renewable Portfolio Standard Charge Schedule LSM-3 Page 5 of 5

	(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)
Jun-19	\$145,799	(71.35%)	(\$104,033)	5.50%	(\$5,722)	\$140,077
Jul-19	\$194,772	(71.35%)	(\$138,976)	5.50%	(\$7,644)	\$187,128
Aug-19	\$209,266	(71.35%)	(\$149,319)	5.50%	(\$8,213)	\$201,054
Sep-19	\$165,158	(71.35%)	(\$117,846)	5.50%	(\$6,482)	\$158,676
Oct-19	\$171,761	(71.35%)	(\$122,557)	5.50%	(\$6,741)	\$165,020
Nov-19	<u>\$150,175</u>	(71.35%)	(\$107,155)	5.50%	<u>(\$5,894)</u>	<u>\$144,282</u>
Total	\$1,036,932				(\$40,694)	\$996,238

⁽¹⁾ Schedule JMP-4.

⁽²⁾ Number of days lag equals (260.44). Calculated using revenue lag of 63.94 days less cost lead of 324.38 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 22 of 23, DE 19-049 filed April 5, 2019.

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(\$6.857)

1	Reconciliation (1)	Total <u>Jun19-Nov19</u> (\$1,576)
'	Treconciliation (1)	(ψ1,570)
2	Total Costs excl. wholesale supplier charge (Page 5)	<u>\$24,908</u>
3	Reconciliation plus Total Costs excl. wholesale supplier charge (L.1 + L.2)	\$23,332
4	kWh Purchases	23,008,856
5	Total, Before Losses (L.3 / L.4)	\$0.00101
6	Losses	4.591%
7	Power Supply Charge excl. wholesale supplier charge (L.5 * (1+L.6)) (2)	\$0.00106

a February 28 2019 actual balance - Schedule I SM-4 Page 2

(1) Balance as of February 28, 2019 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2019 and to incorporate the difference between the estimated supplier cost and revenue in March 2019. Figure is then allocated between rate periods (June-November 2019 and December 2019-May 2020) and then to each month, June through November 2019, on equal per kWh basis.

а	r ebruary 20, 2019 actual balance - Scriedule LSW-4, r age 2		(ψ0,037)	
b c d e	less: Estimated remaining prior period reconciliation - Mar, Apr, May 2019: Estimated kWh S Amount of reconciliation to be cred	9,630,545 <u>\$0.00091</u> \$8,764		
f	plus: Estimated difference between the estimated supplier cost and revenue in M	arch 2019	\$12,642	
g	Total reconciliation for June 1, 2019-May 31, 2020 (line a - line e + line f)		(\$2,978)	
h i j	kWh purchases forecast June-November 2019 kWh purchases forecast December 2019-May 2020 Total		23,008,856 <u>20,464,644</u> 43,473,500	52.93% 47.07%
k I m	Reconciliation amount for June-November 2019 Reconciliation amount for December 2019-May 2020 Total	(line g * line h%) (line g * line i%) (line k + line l)	(\$1,576) (<u>\$1,402)</u> (\$2,978)	

(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. Reconciliation of G1 Class Power Supply Charge Costs and Revenues

Schedule LSM-4 Page 2 of 5

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
				Ending					
				Balance	Average				
				Before	Monthly				Ending
	Beginning	Total Costs	Total Revenue	Interest	Balance		Number of	Computed	Balance with
	Balance	(Page 3)	(Page 4)	(a + b - c)	((a+d) / 2)	Interest Rate	Days / Month	Interest	Interest (d + h)
Mar-18	(\$116,661)	\$191,957	\$163,278	(\$87,981)	(\$102,321)	4.25%	31	(\$370)	(\$88,351)
Apr-18	(\$88,351)	\$200,937	\$205,145	(\$92,560)	(\$90,456)	4.50%	30	(\$335)	(\$92,895)
May-18	(\$92,895)	\$212,445	\$681,408	(\$561,857)	(\$327,376)	4.50%	31	(\$1,251)	(\$563,108)
Jun-18	(\$563,108)	\$264,116	\$307,982	(\$606,975)	(\$585,041)	4.50%	30	(\$2,164)	(\$609,138)
Jul-18	(\$609,138)	\$204,046	\$233,695	(\$638,787)	(\$623,963)	4.75%	31	(\$2,517)	(\$641,304)
Aug-18	(\$641,304)	\$402,664	\$309,259	(\$547,900)	(\$594,602)	4.75%	31	(\$2,399)	(\$550,298)
Sep-18	(\$550,298)	\$411,400	\$287,361	(\$426,259)	(\$488,279)	4.75%	30	(\$1,906)	(\$428,165)
Oct-18	(\$428,165)	\$466,203	\$312,757	(\$274,718)	(\$351,442)	5.00%	31	(\$1,492)	(\$276,211)
Nov-18	(\$276,211)	\$464,032	\$234,080	(\$46,259)	(\$161,235)	5.00%	30	(\$663)	(\$46,922)
Dec-18	(\$46,922)	\$387,990	\$285,918	\$55,151	\$4,115	5.00%	31	\$17	\$55,168
Jan-19	\$55,168	\$295,537	\$312,443	\$38,263	\$46,716	5.25%	31	\$208	\$38,471
Feb-19	\$38,471	\$260,268	\$305,659	(\$6,920)	\$15,776	5.25%	28	<u>\$64</u>	(\$6,857)
Total		\$3,761,595	\$3,638,983					(\$12,808)	

⁽¹⁾ Includes correction of (\$0.58).

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Unitil Energy Systems, Inc. Itemized Costs for G1 Class Default Service Power Supply Charge Schedule LSM-4 Page 3 of 5

				Suppl	Calculation of er Charges and								
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h) Internal	(i)	(j)	(k) Default Service	(I)
		Total G1 Class	GIS	Number of	Working		Supply Related	Provision for	Company		Consulting	Portion of the	Total Costs
		DS Supplier	Support	Days of Lag	Capital		Working Capital	Uncollected	Administrative	Legal	Outside Service	annual PUC	(sum a + b + f +
		Charges	Payments	/ 365 (1)	Requirement	Prime Rate	(d * e)	Accounts	Costs	Charges	Charges	Assessment	g + h + i + j + k)
	Mar-18		\$22	0.35%		4.58%			\$4,290	(\$57)	\$0	\$44	\$191,957
	Apr-18		\$19	0.35%		4.75%			\$4,290	\$0	\$0	\$47	\$200,937
	May-18		\$51	0.35%		4.75%			\$4,290	\$73	\$0	\$101	\$212,445
	Jun-18		\$33	3.47%		4.89%			\$4,290	\$0	\$0	\$87	\$264,116
00227	Jul-18		\$20	3.47%		5.00%			\$4,290	\$0	\$0	\$52	\$204,046
27	Aug-18		\$46	3.47%		5.00%			\$4,290	\$0	\$0	\$48	\$402,664
•	Sep-18		\$26	3.47%		5.03%			\$4,290	\$0	\$0	\$47	\$411,400
	Oct-18		\$32	3.47%		5.25%			\$4,290	\$24	\$0	\$57	\$466,203
	Nov-18		\$26	3.47%		5.25%			\$4,290	\$33	\$0	\$50	\$464,032
	Dec-18		\$17	3.47%		5.35%			\$4,590	\$0	\$0	\$43	\$387,990
	Jan-19		\$19	3.47%		5.50%			\$4,590	\$0	\$0	\$43	\$295,537
	Feb-19		<u>\$26</u>	3.47%		5.50%			<u>\$4,590</u>	<u>\$0</u>	<u>\$0</u>	<u>\$45</u>	<u>\$260,268</u>
	Total		\$335						\$52,380	\$73	\$0	\$663	\$3,761,595

⁽¹⁾ For the months March-May 2018, number of days lag equals 1.26. Calculated using revenue lag of 42.90 days less cost lead of 41.64 days. Revenue lag per Schedule DN-1, Page 4 of 23 and cost lead per Schedule DN-1, Page 20 of 23, DE 17-038 filed April 3, 2017.

For the months June 2018-February 2019, number of days lag equals 12.67. Calculated using revenue lag of 46.32 days less cost lead of 33.65 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 18-035 filed April 6, 2018.

Unitil Energy Systems, Inc. G1 Class Default Service Power Supply Charge Revenue

Schedule LSM-4 Page 4 of 5

	(a)	(b)	(c)	(d)	(e)	(f)	(g) Total Billed G1	(h)
	Total G1 Class		G1 Class	Effective	G1 Class Unbilled		Class Power	
	Billed Default	Unbilled Factor	Unbilled kWh	Variable Power	Power Supply Charge	Reversal of prior	Supply Charge	Total Revenue
	Service kWh (1)	(2)	(a * b)	Supply Charge	Revenue (c * d)	month unbilled	Revenue (1)	(e + f + g)
Mar-18	2,783,971	48.0%	1,335,348	\$0.08511	\$113,651	(\$283,463)	\$333,089	\$163,278
Apr-18	2,731,542	51.8%	1,415,367	\$0.07357	\$104,129	(\$113,651)	\$214,668	\$205,145
May-18	5,976,741	50.3%	3,003,698	\$0.09268	\$278,383	(\$104,129)	\$507,153	\$681,408
Jun-18	5,684,494	41.7%	2,373,059	\$0.06516	\$154,629	(\$278,383)	\$431,736	\$307,982
Jul-18	3,886,851	51.0%	1,981,032	\$0.06664	\$132,016	(\$154,629)	\$256,307	\$233,695
Aug-18	4,058,548	48.9%	1,984,579	\$0.07627	\$151,364	(\$132,016)	\$289,911	\$309,259
Sep-18	3,515,701	53.7%	1,886,889	\$0.08376	\$158,046	(\$151,364)	\$280,679	\$287,361
Oct-18	3,338,482	51.3%	1,713,856	\$0.09816	\$168,232	(\$158,046)	\$302,570	\$312,757
Nov-18	2,943,944	52.0%	1,532,258	\$0.08522	\$130,579	(\$168,232)	\$271,733	\$234,080
Dec-18	3,074,918	49.2%	1,513,829	\$0.09363	\$141,740	(\$130,579)	\$274,757	\$285,918
Jan-19	3,260,630	47.7%	1,554,866	\$0.09539	\$148,319	(\$141,740)	\$305,864	\$312,443
Feb-19	3,230,036	47.3%	1,528,047	\$0.09613	\$146,891	(\$148,319)	\$307,086	\$305,659
Total	44,485,858				\$1,827,978	(\$1,964,550)	\$3,775,555	\$3,638,983

(1) Per billing system(2) Detail of Unbilled Factors for the Large General Class:

		Direct	
	Billed	Estimate of	Unbilled kWh /
	kWh	Unbilled kWh	Billed kWh
Mar-18	27,664,061	13,269,232	48.0%
Apr-18	26,745,474	13,858,352	51.8%
May-18	28,919,282	14,533,805	50.3%
Jun-18	31,345,592	13,085,588	41.7%
Jul-18	31,298,456	15,952,047	51.0%
Aug-18	33,810,990	16,533,152	48.9%
Sep-18	31,095,868	16,689,264	53.7%
Oct-18	29,080,302	14,928,773	51.3%
Nov-18	25,745,662	13,400,046	52.0%
Dec-18	26,844,281	13,215,844	49.2%
Jan-19	26,979,309	12,865,368	47.7%
Feb-19	26,620,046	12,593,260	47.3%

	(a)	(b)	(c)	(d) Working	(e)	(f)	(g)	(h) Internal	(i)	(j)	(k) Default Service	(1)
	Total G1 Class	GIS	Number of	Capital		Supply Related	Provision for	Company	Land	Consulting	Portion of the	Total Costs
	DS Supplier Charges (1)	Support Payments	Days of Lag / 365 (2)	(3)	Prime Rate	Working Capital (d * e)	Uncollected Accounts	Administrative Costs	Legal Charges	Outside Service Charges	annual PUC Assessment	(sum a + b + f + g + h + i + j + k)
Jun-19		\$30	(4.84%)	(\$9,323)	5.50%	(\$513)	\$0	\$4,590	\$0	\$0	\$55	\$4,163
Jul-19		\$34	(4.84%)	(\$11,877)	5.50%	(\$653)	\$0	\$4,590	\$0	\$0	\$55	\$4,026
Aug-19		\$38	(4.84%)	(\$9,430)	5.50%	(\$519)	\$0	\$4,590	\$0	\$0	\$55	\$4,165
Sep-19		\$37	(4.84%)	(\$9,348)	5.50%	(\$514)	\$0	\$4,590	\$0	\$0	\$55	\$4,168
Oct-19		\$35	(4.84%)	(\$8,301)	5.50%	(\$457)	\$0	\$4,590	\$0	\$0	\$55	\$4,223
Nov-19		<u>\$35</u>	(4.84%)	(\$9,397)	5.50%	(\$517)	<u>\$0</u>	<u>\$4,590</u>	<u>\$0</u>	<u>\$0</u>	<u>\$55</u>	\$4,164
Total		\$208				(\$3,172)	\$0	\$27,543	\$0	\$0	\$330	\$24,908

⁽²⁾ Number of days lag equals (17.66). Calculated using revenue lag of 39.90 days less cost lead of 57.56 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 19-049 filed April 5, 2019.

⁽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.

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

		Jun-19 Estimated	Jul-19 Estimated	Aug-19 Estimated	Sep-19 Estimated	Oct-19 Estimated	Nov-19 Estimated	Total
1	Reconciliation (1)	(\$12,099)	(\$13,876)	(\$13,174)	(\$12,515)	(\$12,622)	(\$10,922)	(\$75,208)
2	Total Costs (Page 5)	<u>\$11,283</u>	\$12,940	\$12,286	<u>\$11,671</u>	<u>\$11,771</u>	<u>\$10,186</u>	<u>\$70,138</u>
3	Reconciliation plus Total Costs (L.1 + L.2)	(\$816)	(\$936)	(\$888)	(\$844)	(\$851)	(\$736)	(\$5,071)
4	kWh Purchases	3,701,568	<u>4,245,116</u>	4,030,393	3,828,806	<u>3,861,455</u>	3,341,517	23,008,856
5	Total, Before Losses (L.3 / L.4)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)	(\$0.00022)	
© 023	Losses	<u>4.591%</u>	4.591%	4.591%	<u>4.591%</u>	<u>4.591%</u>	4.591%	
7	Total Retail Rate - Variable RPS Charge (L.5 * (1+L.6))	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)	(\$0.00023)	

(1) Balance as of February 28, 2019 modified, as detailed below, to reflect that current rates include a reconciliation through May 31, 2019. Figure is then allocated between rate periods (June-November 2019 and December 2019-May 2020) and then to each month, June through November 2019, on equal per kWh basis.

a February 28, 2019 actual balance - Schedule LSM-5, Page 2 (\$162,046)

b less: Estimated re	emaining prior period reconciliation - Mar, Ap	r, May 2019:					
С	Estimated kWh	Sales Mar-May 2019	9,640,275				
d	Amount of recond	<u>(\$0.00207)</u>					
е	Estimated amount of reconcil	(\$19,955)					
f Total reconciliation	on for June 1, 2019-May 31, 2020 (line a - Lir	ne e)	(\$142,090)				
g kWh purchases f	orecast June-November 2019		23,008,856	52.93%			
h kWh purchases f	orecast December 2019-May 2020		20,464,644	47.07%			
i Total			43,473,500				
j Reconciliation an	nount for June-November 2019	(line f * line g%)	(\$75,208)				
k Reconciliation an	k Reconciliation amount for December 2019-May 2020 (line f * line h%)						
/ Total	(\$142,090)						

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
				Ending Balance			Number of		
		Total Costs (Page	Total Revenue	Before Interest	Average Monthly	Interest	Days /	Computed	Ending Balance with
	Beginning Balance	3)	(Page 4)	(a + b - c)	Balance ((a+d) / 2)	Rate	Month	Interest	Interest (d + h)
Mar-18	(\$119,702)	\$16,859	\$4,982	(\$107,825)	(\$113,763)	4.25%	31	(\$411)	(\$108,236)
Apr-18	(\$108,236)	\$17,816	\$5,708	(\$96,127)	(\$102,181)	4.50%	30	(\$378)	(\$96,505)
May-18	(\$96,505)	\$17,816	\$15,357	(\$94,046)	(\$95,275)	4.50%	31	(\$364)	(\$94,410)
Jun-18	(\$94,410)	(\$609,851)	\$9,152	(\$713,412)	(\$403,911)	4.50%	30	(\$1,494)	(\$714,906)
Jul-18	(\$714,906)	\$15,101	\$6,430	(\$706,236)	(\$710,571)	4.75%	31	(\$2,867)	(\$709,103)
Aug-18	(\$709,103)	\$15,101	\$7,474	(\$701,476)	(\$705,289)	4.75%	31	(\$2,845)	(\$704,321)
Sep-18	(\$704,321)	\$5,946	\$6,289	(\$704,664)	(\$704,493)	4.75%	30	(\$2,750)	(\$707,415)
Oct-18	(\$707,415)	\$572,964	\$5,824	(\$140,275)	(\$423,845)	5.00%	31	\$7,184 (1)	(\$133,091)
Nov-18	(\$133,091)	\$14,059	\$5,083	(\$124,114)	(\$128,603)	5.00%	30	(\$529)	(\$124,643)
Dec-18	(\$124,643)	(\$45,986)	\$3,093	(\$173,721)	(\$149,182)	5.00%	31	(\$634)	(\$174,355)
Jan-19	(\$174,355)	\$11,515	\$4,715	(\$167,554)	(\$170,954)	5.25%	31	(\$762)	(\$168,316)
Feb-19	(\$168,316)	\$11,51 <u>5</u>	<u>\$4,581</u>	(\$161,382)	(\$164,849)	5.25%	28	<u>(\$664)</u>	(\$162,046)
Total		\$42,856	\$78,687					(\$6,513)	

⁽¹⁾ Includes \$8,984 to related to correction to June 2018 costs and working capital.

				Calculati	on of Working	Capital	
		(a)	(b)	(c) Working	(d)	(e)	(f)
			Number of Days of Lag /	Capital		Supply Related Working	
		Renewable Energy Credits	365 (1)	Requirement (a*b)	Prime Rate	Capital (c * d)	Total Costs (sum a + e)
00	Mar-18	\$17,523	(82.74%)	(\$14,499)	4.58%	(\$664)	\$16,859
00233	Apr-18	\$18,545	(82.74%)	(\$15,345)	4.75%	(\$729)	\$17,816
ω	May-18	\$18,545	(82.74%)	(\$15,345)	4.75%	(\$729)	\$17,816
	Jun-18	(\$630,555)	(67.15%)	\$423,387	4.89%	\$20,704	(\$609,851)
	Jul-18	\$15,626	(67.15%)	(\$10,492)	5.00%	(\$525)	\$15,101
	Aug-18	\$15,626	(67.15%)	(\$10,492)	5.00%	(\$525)	\$15,101
	Sep-18	\$6,154	(67.15%)	(\$4,132)	5.03%	(\$208)	\$5,946
	Oct-18	\$592,452	(67.15%)	(\$397,803)	5.25%	(\$19,488)	\$572,964
	Nov-18	\$14,573	(67.15%)	(\$9,785)	5.25%	(\$514)	\$14,059
	Dec-18	(\$47,699)	(67.15%)	\$32,028	5.35%	\$1,713	(\$45,986)
	Jan-19	\$11,957	(67.15%)	(\$8,028)	5.50%	(\$442)	\$11,515 [°]
	Feb-19	\$11,957	(67.15%)	(\$8,028)	5.50%	<u>(\$442)</u>	\$11,51 <u>5</u>
	Total	\$44,703				(\$1,846)	\$42,856

⁽¹⁾ For the months March-May 2018, number of days lag equals (302.01). Calculated using revenue lag of 42.90 days less cost lead of 344.91 days. Revenue lag per Schedule DN-1, Page 4 of 23 and cost lead per Schedule DN-1, Page 20 of 23, DE 17-038 filed April 3, 2017.

For the months June 2018-February 2019, number of days lag equals (245.08). Calculated using revenue lag of 46.32 days less cost lead of 291.40 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 18-035 filed April 6, 2018.

⁽²⁾ Includes \$1,396.87 to correct working capital for entry made in June 2018.

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
	Total G1 Class Billed Default	Unbilled Factor	G1 Class Unbilled	Effective Variable RPS	G1 Class Unbilled RPS Charge	Reversal of prior month	Total Billed G1 Class RPS Charge	Total Revenue
	Service kWh (1)	(2)	kWh (a * b)	Charge	Revenue (c * d)	unbilled	Revenue (1)	(e + f + g)
Mar-18	2,783,971	48.0%	1,335,348	\$0.00203	\$2,711	(\$3,380)	\$5,651	\$4,982
Apr-18	2,731,542	51.8%	1,415,367	\$0.00203	\$2,873	(\$2,711)	\$5,545	\$5,708
May-18	5,976,741	50.3%	3,003,698	\$0.00203	\$6,098	(\$2,873)	\$12,133	\$15,357
Jun-18	5,684,494	41.7%	2,373,059	\$0.00184	\$4,366	(\$6,098)	\$10,883	\$9,152
Jul-18	3,886,851	51.0%	1,981,032	\$0.00184	\$3,645	(\$4,366)	\$7,152	\$6,430
Aug-18	4,058,548	48.9%	1,984,579	\$0.00184	\$3,652	(\$3,645)	\$7,468	\$7,474
Sep-18	3,515,701	53.7%	1,886,889	\$0.00184	\$3,472	(\$3,652)	\$6,469	\$6,289
Oct-18	3,338,482	51.3%	1,713,856	\$0.00184	\$3,153	(\$3,472)	\$6,143	\$5,824
Nov-18	2,943,944	52.0%	1,532,258	\$0.00184	\$2,819	(\$3,153)	\$5,417	\$5,083
Dec-18	3,074,918	49.2%	1,513,829	\$0.00100	\$1,514	(\$2,819)	\$4,398	\$3,093
Jan-19	3,260,630	47.7%	1,554,866	\$0.00143	\$2,223	(\$1,514)	\$4,005	\$4,715
Feb-19	3,230,036	47.3%	1,528,047	\$0.00143	\$2,185	(\$2,223)	\$4,619	\$4,581
Total	44,485,858				\$38,712	(\$39,907)		\$78,687

⁽¹⁾ Per billing system(2) Detail of Unbilled Factors for the Large General Class:

		Direct	
	Billed	Estimate of	Unbilled kWh /
	kWh	Unbilled kWh	Billed kWh
Mar-18	27,664,061	13,269,232	48.0%
Apr-18	26,745,474	13,858,352	51.8%
May-18	28,919,282	14,533,805	50.3%
Jun-18	31,345,592	13,085,588	41.7%
Jul-18	31,298,456	15,952,047	51.0%
Aug-18	33,810,990	16,533,152	48.9%
Sep-18	31,095,868	16,689,264	53.7%
Oct-18	29,080,302	14,928,773	51.3%
Nov-18	25,745,662	13,400,046	52.0%
Dec-18	26,844,281	13,215,844	49.2%
Jan-19	26,979,309	12,865,368	47.7%
Feb-19	26,620,046	12,593,260	47.3%

				Calculati	on of Working	Capital	
		(a)	(b)	(c) Working	(d)	(e)	(f)
			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)
00	Jun-19	\$11,766	(74.58%)	(\$8,775)	5.50%	(\$483)	\$11,283
00235	Jul-19	\$13,494	(74.58%)	(\$10,063)	5.50%	(\$553)	\$12,940
OI.	Aug-19	\$12,811	(74.58%)	(\$9,554)	5.50%	(\$525)	\$12,286
	Sep-19	\$12,171	(74.58%)	(\$9,076)	5.50%	(\$499)	\$11,671
	Oct-19	\$12,274	(74.58%)	(\$9,154)	5.50%	(\$503)	\$11,771
	Nov-19	<u>\$10,622</u>	(74.58%)	(\$7,921)	5.50%	(\$436)	<u>\$10,186</u>
	Total	\$73,137				(\$3,000)	\$70,138

⁽¹⁾ Schedule JMP-4.

⁽²⁾ Number of days lag equals (272.20). Calculated using revenue lag of 39.90 days less cost lead of 312.10 days. Revenue lag per Schedule DTN-1, Page 4 of 23 and cost lead per Schedule DTN-1, Page 20 of 23, DE 19-049 filed April 5, 2019.

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

Residential Rate D 650 kWh Bill

	4/1/2019	6/1/2019					% Difference to
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Difference to Total Bill
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$22.99	\$22.99	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000	\$15.53	\$15.53	\$0.00	0.0%
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000	(\$0.66)	(\$0.66)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.86	\$0.86	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$3.74	\$3.74	\$0.00	0.0%
Default Service Charge	\$0.11689	\$0.07714	(\$0.03975)	\$75.98	<u>\$50.14</u>	(\$25.84)	(19.2%)
Total kWh Charges	\$0.18223	\$0.14248	(\$0.03975)				
Total Bi	II			\$134.57	\$108.73	(\$25.84)	(19.2%)

	Regular Genera	al G2 Demand,	11 kW, 2,800 k	Nh Typical Bill			
	4/1/2019	6/1/2019					% Difference <u>to</u>
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$29.02	\$29.02	\$0.00	\$29.02	\$29.02	\$0.00	0.0%
Distribution Charge Stranded Cost Charge	<u>All kW</u> \$10.45 (\$0.21)	<u>All kW</u> \$10.45 (\$0.21)	\$0.00 \$0.00	\$114.95 (\$2.31)	\$114.95 (\$2.31)	\$0.00 \$0.00	0.0% 0.0%
Total kW Charges	\$10.24	\$10.24	\$0.00	\$112.64	\$112.64	\$0.00	0.0%
	\$/kWh	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000	\$66.89	\$66.89	\$0.00	0.0%
Stranded Cost Charge	(\$0.00021)	(\$0.00021)	\$0.00000	(\$0.59)	(\$0.59)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$3.72	\$3.72	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$16.13	\$16.13	\$0.00	0.0%
Default Service Charge	<u>\$0.10598</u>	\$0.06872	(\$0.03726)	<u>\$296.74</u>	<u>\$192.42</u>	(\$104.33)	<u>(19.9%)</u>
Total kWh Charges	\$0.13675	\$0.09949	(\$0.03726)	\$382.90	\$278.57	(\$104.33)	(19.9%)
Total Bi	II			\$524.56	\$420.23	(\$104.33)	(19.9%)

Regular General G2 Quick Recovery Water Heating and Space Heating 1,660 kWh Typical Bill

	Regular Ge	neral G2 kWh	Meter 115 kW	h Typical Bill			
	4/1/2019	6/1/2019					% Difference to
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$18.27	\$18.27	\$0.00	\$18.27	\$18.27	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00878	\$0.00878	\$0.00000	\$1.01	\$1.01	\$0.00	0.0%
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000	\$2.75	\$2.75	\$0.00	0.0%
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000	(\$0.12)	(\$0.12)	\$0.00	0.0%
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.15	\$0.15	\$0.00	0.0%
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	\$0.66	\$0.66	\$0.00	0.0%
Default Service Charge	\$0.10598	\$0.06872	(\$0.03726)	\$12.19	<u>\$7.90</u>	(\$4.28)	(12.3%)
Total kWh Charges	\$0.14473	\$0.10747	(\$0.03726)	\$16.64	\$12.36	(\$4.28)	(12.3%)
Total Bi	I			\$34.91	\$30.63	(\$4.28)	(12.3%)

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

Residential Rate D 646 kWh Bill - Mean Use*

	4/1/2019	6/1/2019					%
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	<u>Difference</u> to Total Bill
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$22.85	\$22.85	\$0.00	0.0%
External Delivery Charge Stranded Cost Charge Storm Recovery Adj. System Benefits Charge Default Service Charge Total kWh Charges	\$0.02389 (\$0.00101) \$0.00133 \$0.00576 <u>\$0.11689</u> \$0.18223	\$0.02389 (\$0.00101) \$0.00133 \$0.00576 <u>\$0.07714</u> \$0.14248	\$0.00000 \$0.00000 \$0.00000 \$0.00000 (\$0.03975) (\$0.03975)	\$15.43 (\$0.65) \$0.86 \$3.72 <u>\$75.51</u>	\$15.43 (\$0.65) \$0.86 \$3.72 \$49.83	\$0.00 \$0.00 \$0.00 \$0.00 (\$25.68)	0.0% 0.0% 0.0% 0.0% (19.2%)
Total Bil	l			\$133.84	\$108.16	(\$25.68)	(19.2%)

Residential Rate D 524 kWh Bill - Median Use*

	4/1/2019	6/1/2019					%
Rate Components	Current Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Difference to Total Bill
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
	<u>\$/kWh</u>	\$/kWh					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$18.53	\$18.53	\$0.00	0.0%
External Delivery Charge Stranded Cost Charge Storm Recovery Adj. System Benefits Charge Default Service Charge Total kWh Charges	\$0.02389 (\$0.00101) \$0.00133 \$0.00576 <u>\$0.11689</u> \$0.18223	\$0.02389 (\$0.00101) \$0.00133 \$0.00576 <u>\$0.07714</u> \$0.14248	\$0.00000 \$0.00000 \$0.00000 \$0.00000 (\$0.03975) (\$0.03975)	\$12.52 (\$0.53) \$0.70 \$3.02 \$61.25	\$12.52 (\$0.53) \$0.70 \$3.02 \$40.42	\$0.00 \$0.00 \$0.00 \$0.00 (\$20.83)	0.0% 0.0% 0.0% 0.0% (18.7%)
Total Bil	<u> </u>			\$111.61	\$90.78	(\$20.83)	(18.7%)

^{*} Based on billing period January through December 2018.

Unitil Energy Systems, Inc. Average Class Bill Impacts Due to Proposed Default Service Rate Changes Effective June 1, 2019

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
	Annual Number	Annual	Annual	Proposed	Estimated Annual	Estimated Annual	Proposed	% Change
	of Customers (luminaires	kWh	kW / kVA	DSC	Revenue \$ Under	Revenue \$ Under	Net Change	DSC
Class of Service	for Outdoor Lighting)	<u>Sales</u>	<u>Sales</u>	Change \$	Present Rates	Proposed Rates	Revenue \$	<u>Revenue</u>
Residential	785,306	497,875,828	n/a	(\$19,790,564)	\$103,387,049	\$83,596,485	(\$19,790,564)	(19.1%)
General Service	131,872	354,161,409	1,348,556	(\$13,196,054)	\$66,102,581	\$52,906,527	(\$13,196,054)	(20.0%)
utdoor Lighting	110,850	8,241,454	n/a	(\$307,077)	\$2,983,906	\$2,676,830	(\$307,077)	(10.3%)
Total	1,028,028	860,278,690		(\$33,293,695)	\$172,473,536	\$139,179,841	(\$33,293,695)	(19.3%)

⁽B), (C), (D) Test year billing determinants in DE 16-384.

⁽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)

Unitil Energy Systems, Inc. Typical Bill Impacts - April 1, 2019 vs. June 1, 2019 Due to Changes in the Default Service Charge Impact on D Rate Customers

Average	Total Bill Using Rates	Total Bill Using Rates	Total	% Total
<u>kWh</u>	<u>4/1/2019</u>	<u>6/1/2019</u>	<u>Difference</u>	<u>Difference</u>
125	\$38.90	\$33.93	(\$4.97)	(12.8%)
150	\$43.45	\$37.49	(\$5.96)	(13.7%)
200	\$52.57	\$44.62	(\$7.95)	(15.1%)
250	\$61.68	\$51.74	(\$9.94)	(16.1%)
300	\$70.79	\$58.86	(\$11.93)	(16.8%)
350	\$79.90	\$65.99	(\$13.91)	(17.4%)
400	\$89.01	\$73.11	(\$15.90)	(17.9%)
450	\$98.12	\$80.24	(\$17.89)	(18.2%)
500	\$107.24	\$87.36	(\$19.88)	(18.5%)
525	\$111.79	\$90.92	(\$20.87)	(18.7%)
550	\$116.35	\$94.48	(\$21.86)	(18.8%)
575	\$120.90	\$98.05	(\$22.86)	(18.9%)
600	\$125.46	\$101.61	(\$23.85)	(19.0%)
625	\$130.01	\$105.17	(\$24.84)	(19.1%)
650	\$134.57	\$108.73	(\$25.84)	(19.2%)
675	\$139.13	\$112.29	(\$26.83)	(19.3%)
700	\$143.68	\$115.86	(\$27.83)	(19.4%)
725	\$148.24	\$119.42	(\$28.82)	(19.4%)
750	\$152.79	\$122.98	(\$29.81)	(19.5%)
775	\$157.35	\$126.54	(\$30.81)	(19.6%)
825	\$166.46	\$133.67	(\$32.79)	(19.7%)
925	\$184.68	\$147.91	(\$36.77)	(19.9%)
1,000	\$198.35	\$158.60	(\$39.75)	(20.0%)
1,250	\$243.91	\$194.22	(\$49.69)	(20.4%)
1,500	\$289.47	\$229.84	(\$59.63)	(20.6%)
2,000	\$380.58	\$301.08	(\$79.50)	(20.9%)
3,500	\$653.93	\$514.80	(\$139.13)	(21.3%)
5,000	\$927.27	\$728.52	(\$198.75)	(21.4%)

	Rates - Effective April 1, 2019	Rates - Proposed June 1, 2019	Difference
Customer Charge	\$16.12	\$16.12	\$0.00
	kWh	kWh	kWh
Distribution Charge:	\$0.03537	\$0.03537	\$0.00000
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.11689</u>	<u>\$0.07714</u>	(\$0.03975)
TOTAL	\$0.18223	\$0.14248	(\$0.03975)

Unitil Energy Systems, Inc. Typical Bill Impacts - April 1, 2019 vs. June 1, 2019 Due to Changes in the Default Service Charge Impact on G2 Rate Customers

Load Factor	Average Monthly <u>kW</u>	Average Monthly <u>kWh</u>	Total Bill Using Rates <u>4/1/2019</u>	Total Bill Using Rates <u>6/1/2019</u>	Total <u>Difference</u>	% Total <u>Difference</u>
20%	5	730	\$180.05	\$152.85	(\$27.20)	(15.1%)
20%	10	1,460	\$331.08	\$276.68	(\$54.40)	(16.4%)
20%	15	2,190	\$482.10	\$400.50	(\$81.60)	(16.9%)
20%	25	3,650	\$784.16	\$648.16	(\$136.00)	(17.3%)
20%	50	7,300	\$1,539.30	\$1,267.30	(\$272.00)	(17.7%)
20%	75	10,950	\$2,294.43	\$1,886.44	(\$408.00)	(17.8%)
20%	100	14,600	\$3,049.57	\$2,505.57	(\$544.00)	(17.8%)
20%	150	21,900	\$4,559.85	\$3,743.85	(\$815.99)	(17.9%)
36%	5	1,314	\$259.91	\$210.95	(\$48.96)	(18.8%)
36%	10	2,628	\$490.80	\$392.88	(\$97.92)	(20.0%)
36%	15	3,942	\$721.69	\$574.81	(\$146.88)	(20.4%)
36%	25	6,570	\$1,183.47	\$938.67	(\$244.80)	(20.7%)
36%	50	13,140	\$2,337.92	\$1,848.32	(\$489.60)	(20.9%)
36%	75	19,710	\$3,492.36	\$2,757.97	(\$734.39)	(21.0%)
36%	100	26,280	\$4,646.81	\$3,667.62	(\$979.19)	(21.1%)
36%	150	39,420	\$6,955.71	\$5,486.92	(\$1,468.79)	(21.1%)
50%	5	1,825	\$329.79	\$261.79	(\$68.00)	(20.6%)
50%	10	3,650	\$630.56	\$494.56	(\$136.00)	(21.6%)
50%	15	5,475	\$931.33	\$727.33	(\$204.00)	(21.9%)
50%	25	9,125	\$1,532.86	\$1,192.87	(\$340.00)	(22.2%)
50%	50	18,250	\$3,036.71	\$2,356.71	(\$680.00)	(22.4%)
50%	75	27,375	\$4,540.55	\$3,520.56	(\$1,019.99)	(22.5%)
50%	100	36,500	\$6,044.40	\$4,684.41	(\$1,359.99)	(22.5%)
50%	150	54,750	\$9,052.08	\$7,012.10	(\$2,039.99)	(22.5%)

	Rates - Effective April 1, 2019	Rates - Proposed June 1, 2019	Difference
Customer Charge	\$29.02	\$29.02	\$0.00
	All kW	<u>All kW</u>	All kW
Distribution Charge	\$10.45	\$10.45	\$0.00
Stranded Cost Charge	(\$0.21)	(\$0.21)	\$0.00
TOTAL	\$10.24	\$10.24	\$0.00
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	(\$0.00021)	(\$0.00021)	\$0.00000
Storm Recovery Adj. Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.10598</u>	<u>\$0.06872</u>	(\$0.03726)
TOTAL	\$0.13675	\$0.09949	(\$0.03726)

Unitil Energy Systems, Inc. Typical Bill Impacts - April 1, 2019 vs. June 1, 2019 Due to Changes in the Default Service Charge Impact on G2 kWh Meter Rate Customers

Average Monthly <u>kWh</u>	Total Bill Using Rates <u>4/1/2019</u>	Total Bill Using Rates <u>6/1/2019</u>	Total <u>Difference</u>	% Total <u>Difference</u>
15	\$20.44	\$19.88	(\$0.56)	(2.7%)
75	\$29.12	\$26.33	(\$2.79)	(9.6%)
150	\$39.98	\$34.39	(\$5.59)	(14.0%)
250	\$54.45	\$45.14	(\$9.32)	(17.1%)
350	\$68.93	\$55.88	(\$13.04)	(18.9%)
450	\$83.40	\$66.63	(\$16.77)	(20.1%)
550	\$97.87	\$77.38	(\$20.49)	(20.9%)
650	\$112.34	\$88.13	(\$24.22)	(21.6%)
750	\$126.82	\$98.87	(\$27.95)	(22.0%)
900	\$148.53	\$114.99	(\$33.53)	(22.6%)

	Rates - Effective April 1, 2019	Rates - Proposed June 1, 2019	Difference
kWh Meter Customer Charge	\$18.27	\$18.27	\$0.00
	All kWh	All kWh	All kWh
Distribution Charge	\$0.00878	\$0.00878	\$0.00000
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.10598</u>	<u>\$0.06872</u>	(\$0.03726)
TOTAL	\$0.14473	\$0.10747	(\$0.03726)

Unitil Energy Systems, Inc. Typical Bill Impacts - April 1, 2019 vs. June 1, 2019 Due to Changes in the Default Service Charge Impact on G2 QRWH and SH Rate Customers

Average <u>kWh</u>	Total Bill Using Rates <u>4/1/2019</u>	Total Bill Using Rates <u>6/1/2019</u>	Total <u>Difference</u>	% Total <u>Difference</u>
100	\$26.45	\$22.72	(\$3.73)	(14.1%)
200	\$43.23	\$35.78	(\$7.45)	(17.2%)
300	\$60.01	\$48.83	(\$11.18)	(18.6%)
400	\$76.79	\$61.89	(\$14.90)	(19.4%)
500	\$93.57	\$74.94	(\$18.63)	(19.9%)
750	\$135.52	\$107.58	(\$27.95)	(20.6%)
1,000	\$177.47	\$140.21	(\$37.26)	(21.0%)
1,500	\$261.37	\$205.48	(\$55.89)	(21.4%)
2,000	\$345.27	\$270.75	(\$74.52)	(21.6%)
2,500	\$429.17	\$336.02	(\$93.15)	(21.7%)

	Rates - Effective April 1, 2019	Rates - Proposed June 1, 2019	Difference
Customer Charge	\$9.67	\$9.67	\$0.00
	<u>All kWh</u>	<u>All kWh</u>	All kWh
Distribution Charge	\$0.03185	\$0.03185	\$0.00000
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00133	\$0.00133	\$0.00000
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.10598</u>	<u>\$0.06872</u>	(\$0.03726)
TOTAL	\$0.16780	\$0.13054	(\$0.03726)

Unitil Energy Systems, Inc. Typical Bill Impacts - April 1, 2019 vs. June 1, 2019 Due to Changes in the Default Service Charge Impact on OL Rate Customers *

					Total Bill	Total Bill		%	
l	Nominal <u>Watts</u>	Lumens	<u>Type</u>	Average Monthly kWh	Using Rates 4/1/2019		Total Difference	Total Difference	
	Mercury Vapor:								
1	100	3,500	ST	43	\$19.05	\$17.44	(\$1.60)	-8.4%	
2	175	7,000	ST	71	\$25.31	\$22.67	(\$2.65)	-10.5%	
3 4	250 400	11,000 20,000	ST ST	100 157	\$31.35 \$42.47	\$27.62 \$36.62	(\$3.73) (\$5.85)	-11.9% -13.8%	
5	1,000	60,000	ST	372	\$92.52	\$78.66	(\$13.86)	-15.0%	
6	250	11,000	FL	100	\$32.50	\$28.77	(\$3.73)	-11.5%	
7	400	20,000	FL	157	\$43.96	\$38.11	(\$5.85)	-13.3%	
8	1,000	60,000	FL	380	\$89.14	\$74.98	(\$14.16)	-15.9%	
9 10	100 175	3,500 7,000	PB PB	48 71	\$19.86 \$24.44	\$18.07 \$21.80	(\$1.79) (\$2.65)	-9.0% -10.8%	
10			гь	7.1	Ψ24.44	Ψ21.00	(ψ2.00)	-10.070	
44	High Pressure So		0.7	00	C40 F7	645.74	(00.00)	F 00/	
11 12	50 100	4,000 9,500	ST ST	23 48	\$16.57 \$21.66	\$15.71 \$19.87	(\$0.86) (\$1.79)	-5.2% -8.3%	
13	150	16,000	ST	65	\$24.03	\$21.60	(\$2.42)	-10.1%	
14	250	30,000	ST	102	\$32.90	\$29.10	(\$3.80)	-11.6%	
15	400	50,000	ST	161	\$45.87	\$39.87	(\$6.00)	-13.1%	
16	1,000	140,000	ST	380	\$93.08	\$78.92	(\$14.16)	-15.2%	
17	150	16,000	FL	65	\$26.35	\$23.92	(\$2.42)	-9.2%	
18 19	250 400	30,000 50,000	FL FL	102 161	\$34.51 \$45.34	\$30.71 \$39.34	(\$3.80) (\$6.00)	-11.0% -13.2%	
20	1,000	140,000	FL	380	\$93.44	\$79.28	(\$14.16)	-15.2%	
21	50	4,000	PB	23	\$15.57	\$14.71	(\$0.86)	-5.5%	
22	100	95,000	PB	48	\$20.49	\$18.70	(\$1.79)	-8.7%	
	Metal Halide:						•		
23	175	8,800	ST	74	\$29.85	\$27.09	(\$2.76)	-9.2%	
24	250	13,500	ST	102	\$35.39	\$31.59	(\$3.80)	-10.7%	
25	400	23,500	ST	158	\$43.80	\$37.91	(\$5.89)	-13.4%	
26	175	8,800	FL	74	\$32.93	\$30.17	(\$2.76)	-8.4%	
27	250	13,500	FL	102	\$38.56	\$34.76	(\$3.80)	-9.9%	
28 29	400 1,000	23,500 86,000	FL FL	158 374	\$46.21 \$82.88	\$40.32 \$68.94	(\$5.89) (\$13.94)	-12.7% -16.8%	
30	1,000	8,800	PB	74	\$28.58	\$25.82	(\$2.76)	-9.6%	
31	250	13,500	PB	102	\$33.56	\$29.76	(\$3.80)	-11.3%	
32	400	23,500	PB	158	\$42.53	\$36.64	(\$5.89)	-13.8%	
	Light Emitting Dio	ide.							
33	42	3,600	AL	15	\$15.12	\$14.56	(\$0.56)	-3.7%	
34	57	5,200	AL	20	\$15.85	\$15.10	(\$0.75)	-4.7%	
35	25	3,000	CH	9	\$14.25	\$13.92	(\$0.34)	-2.4%	
36	88	8,300	CH	30	\$17.30	\$16.18	(\$1.12)	-6.5%	
37	108	11,500	CH	37 67	\$18.31	\$16.93	(\$1.38)	-7.5%	
38 39	193 123	21,000	CH FL	67 43	\$22.65 \$19.18	\$20.15 \$17.57	(\$2.50) (\$1.60)	-11.0% -8.4%	
40	194	12,180 25,700	FL	67	\$22.65	\$20.15	(\$2.50)	-11.0%	
41	297	38,100	FL	103	\$27.85	\$24.02	(\$3.84)	-13.8%	
Rates - Effective April 1, 201	9	Lun Mercury Vapo		s For Year Rou Sodium Vap		Metal Halid	Dato/Mo	LED Rat	o/Mo
		wercury vapo							
Customer Charge	\$0.00		1 \$13.20 2 \$15.66	11 12	\$13.44 \$15.43	23 24	\$19.79 \$21.52	33 34	\$13.08
	All kWh		3 \$17.75	13	\$15.13 \$15.19	25	\$22.32	35	\$13.13 \$13.03
Distribution Charge	\$0.00000		4 \$21.13	14	\$19.03	26	\$22.87	36	\$13.22
External Delivery Charge	\$0.02389		5 \$41.95	15	\$23.98	27	\$24.69	37	\$13.28
Stranded Cost Charge	(\$0.00101)		6 \$18.90	16	\$41.42	28	\$24.73	38	\$13.54
Storm Recovery Adj. Factor						29			
				17	\$17.51		\$32.03		\$13.33
System Benefits Charge	\$0.00133 \$0.00576		7 \$22.62 8 \$37.48	17 18	\$17.51 \$20.64	30	\$32.03 \$18.52	39 40	\$13.33 \$13.54
	\$0.00133		7 \$22.62					39	
	\$0.00133 \$0.00576		7 \$22.62 8 \$37.48	18	\$20.64	30	\$18.52	39 40	\$13.54
Default Service Charge	\$0.00133 \$0.00576		7 \$22.62 8 \$37.48 9 \$13.33	18 19 20 21	\$20.64 \$23.45 \$41.78 \$12.44	30 31	\$18.52 \$19.69	39 40	\$13.54
Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595		7 \$22.62 8 \$37.48 9 \$13.33	18 19 20 21 22	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96	30 31	\$18.52 \$19.69	39 40	\$13.54
Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 20 21	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96	30 31	\$18.52 \$19.69 \$21.05	39 40	\$13.54 \$13.85
Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 20 21 22	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96	30 31 32	\$18.52 \$19.69 \$21.05	39 40 41	\$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20	\$0.00133 \$0.00576 \$0.10598 \$0.13595	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 20 21 22 Sodium Vap	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44	30 31 32 Metal Halid	\$18.52 \$19.69 \$21.05	39 40 41 LED Rat	\$13.54 \$13.85 e/Mo.
Default Service Charge TOTAL Rates - Proposed June 1, 20	\$0.00133 \$0.00576 \$0.10598 \$0.13595	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20	18 19 20 21 22 Sodium Vap	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13	30 31 32 Metal Halid	\$18.52 \$19.69 \$21.05 • Rate/Mo. \$19.79	39 40 41 <u>LED Rat</u> 33	\$13.54 \$13.85 e/Mo. \$13.08
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 ***********************************	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13	18 19 20 21 22 Sodium Vap 11 12 13 13	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03	30 31 32 Metal Halid 23 24 25 26	\$18.52 \$19.69 \$21.05 Parte/Mo. \$19.79 \$21.52 \$22.32 \$22.87	39 40 41 LED Rat 33 34 35 36	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 ***********************************	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95	18 19 20 21 22 Sodium Vap 11 12 13 14 15	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98	30 31 32 Metal Halide 23 24 25 26 27	\$18.52 \$19.69 \$21.05 Pate/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.87 \$24.69	39 40 41 LED Rat 33 34 35 36 37	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 \$0.00101)	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42	30 31 32 Metal Halidi 23 24 25 26 27 28	\$18.52 \$19.69 \$21.05 8 Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73	39 40 41 LED Rat 33 34 35 36 37 38	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51	30 31 32 Metal Halid 23 24 25 26 27 28 29	\$18.52 \$19.69 \$21.05 e Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03	39 40 41 LED Rat 33 34 35 36 37 38 39	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64	30 31 32 Metal Halid 23 24 25 26 27 28 29 30	\$18.52 \$19.69 \$21.05 PRATE/MO. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52	39 40 41 LED Rat 33 34 35 36 37 38 39 40	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.54 \$13.33 \$13.54
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33	18 19 200 21 22 Sodium Vap 11 12 13 13 14 15 16 17 18 19 19	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31	\$18.52 \$19.69 \$21.05 B Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69	39 40 41 LED Rat 33 34 35 36 37 38 39	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48	18 19 200 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 20	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78	30 31 32 Metal Halid 23 24 25 26 27 28 29 30	\$18.52 \$19.69 \$21.05 PRATE/MO. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52	39 40 41 LED Rat 33 34 35 36 37 38 39 40	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.54 \$13.33 \$13.54
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 200 21	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31	\$18.52 \$19.69 \$21.05 B Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69	39 40 41 LED Rat 33 34 35 36 37 38 39 40	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.54 \$13.33 \$13.54
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 21 22	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.28 \$13.28 \$13.54 \$13.35 \$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872 \$0.09869	Mercury Vapo	7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 17 18 19 20 21 22 Sodium Vap Sodium Vap Sodium Vap Sodium Vap 20 Sodium Vap Sodium Vap 20 Sodium Vap Sodium Vap	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo.	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.37 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.28 \$13.28 \$13.54 \$13.35 \$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00	18 19 200 21 22 Sodium Vap 11 12 20 20 21 20 20 21 20 20 21 22 Sodium Vap 11	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 B Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.54 \$13.33 \$13.54 \$13.38 \$13.54 \$13.38 \$13.08
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00576 \$0.06872 \$0.09869		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00	18 19 200 211 22 Sodium Vap 11 14 15 16 17 18 19 20 21 22 Sodium Vap 20 Sodium Vap 11 12 12 12 12 12 12	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 31 32	\$18.52 \$19.69 \$21.05 Parte/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.32 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33 \$13.54 \$13.35 \$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Stranded Cost Charge Torm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference Customer Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00 All kWh		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00	18 19 20 21 22 Sodium Vap 11 12 13 13 14 4 15 16 17 18 19 20 21 22 Sodium Vap 11 12 12 13 13 14 14 15 15 16 17 18 18 19 20 21 21 22 13 13 14 12 13 13	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00	Metal Haliid 23 24 25 26 27 28 29 30 31 32 Metal Haliid 23 24 25 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	\$18.52 \$19.69 \$21.05 Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41 LED Rat 33 34 35	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.03 \$13.28 \$13.24 \$13.35 \$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference Customer Charge Distribution Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00576 \$0.06872 \$0.09869		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00	18 19 200 211 22 Sodium Vap 11 14 15 16 17 18 19 20 21 22 Sodium Vap 20 Sodium Vap 11 12 12 12 12 12 12	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 31 32	\$18.52 \$19.69 \$21.05 Parte/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.32 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05	39 40 41 33 34 35 36 37 38 39 40 41	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33 \$13.54 \$13.35 \$13.54 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Stranded Cost Charge Default Service Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00 All kWh \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 4 \$0.00	18 19 200 21 22 Sodium Vap 11 12 20 Sodium Vap 20 21 12 12 22 Sodium Vap 21 12 13 13 14 15 15 16 16 17 18 18 19 20 21 11 12 13 13 14 14 15 15 16 16 17 17 18 18 19 20 21 17 18 18 18 18 18 18 18 18 18 18 18 18 18	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 Pater/Mo. \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 Pater/Mo. \$0.00 \$0.00 \$0.00 \$0.00	39 40 41 33 34 35 36 37 38 39 40 41 LED Rat 33 34 35 36	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.54 \$13.33 \$13.54 \$13.85 e/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Stranded Stranded Charge Default Service Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 \$0.00101) \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00 All kWh \$0.00000 \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 5 \$0.00	18 19 200 21 22 Sodium Vap 11 12 2 13 14 15 5 Sodium Vap 11 12 13 14 15 15 16 16 17 18 18 19 19 20 21 12 13 14 15 15 16 16 17 17 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 31 32 44 25 26 27 28 29 30 31 31 31 31 31 31 31 31 31 31 31 31 31	\$18.52 \$19.69 \$21.05 Parte/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.32 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 Parte/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	39 40 41 33 34 35 36 37 38 40 41 41 LED Rat 33 34 35 36 37	\$13.54 \$13.85 e/Mo. \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33 \$13.54 \$13.85 e/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge	\$0.00133 \$0.00576 \$0.10598 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00 All kWh \$0.00000 \$0.00000 \$0.000000 \$0.000000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 6 \$0.00 6 \$0.00	18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 16 17 12 12 13 14 15 16 16 17 17 18 18 19 20 21 22 11 12 13 14 15 16 16 16 17 17 18 18 19 20 21 22 17 18 18 19 20 21 22 17 18 18 19 20 21 22 17 18 18 19 20 21 22 18 18 18 18 18 18 18 18 18 18 18 18 18	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 \$24.05	39 40 41 33 34 35 36 37 38 39 40 41 41 LED Rat 33 34 35 36 37 37 38 39 40 41 31 31 32 32 33 34 35 36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.03 \$13.28 \$13.24 \$13.35 \$13.54 \$13.85 \$13.64 \$13.35 \$13.64 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference	\$0.00133 \$0.00576 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.02389 (\$0.00101) \$0.00576 \$0.06872 \$0.06872 \$0.09869 \$0.00 All kWh \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79	18 19 200 211 22 Sodium Vap 11 12 13 13 14 15 15 166 17	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 32	\$18.52 \$19.69 \$21.05 \$19.79 \$21.52 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	39 40 41 33 34 35 36 37 38 39 40 41 LED Rat 33 34 35 36 37 37 38 39 40 41	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.03 \$13.22 \$13.54 \$13.33 \$13.25 \$13.85
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.10598 \$0.13595 \$0.00 \$0.0000 \$0.00389 \$0.00101 \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 4 \$21.13 5 \$41.95 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 5 \$0.00 6 \$0.00 7 \$0.00 8 \$0.00	18 18 19 20 21 22 Sodium Vap 11 12 13 13 14 15 16 17 18 18 19 20 21 17 18 18 19 20 20 21 17 12 20 20 21 17 12 20 20 20 20 20 20 20 20 20 20 20 20 20	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 30 31 30	\$18.52 \$19.69 \$21.05 Rate/Mo. \$19.79 \$21.52 \$22.32 \$22.32 \$22.87 \$24.69 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 Rate/Mo. \$0.00 \$0	39 40 41 33 34 35 36 37 38 39 40 41 2 2 2 2 3 3 3 3 3 4 3 5 3 6 3 7 3 7 3 8 3 9 4 0 1 3 1 3 3 3 3 4 3 3 3 3 3 3 4 4 3 3 3 3	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33 \$13.54 \$13.85 \$0.00
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge External Delivery Charge Stranded Cost Charge Stranded Cost Charge Stranded Cost Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge	\$0.00133 \$0.00576 \$0.10598 \$0.10598 \$0.13595 119 \$0.00 All kWh \$0.00000 \$0.00576 \$0.06872 \$0.09869 \$0.00 All kWh \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 6 \$0.00 7 \$0.00 8 \$0.00 9 \$0.00	18 18 19 20 21 22 Sodium Vap 11 12 13 14 15 16 16 17 18 11 12 13 14 15 16 16 17 18 18 19 19 11 12 11 12 11 12 11 11 12 11 11 12 11 11	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 31	\$18.52 \$19.69 \$21.05 \$19.79 \$21.52 \$22.32 \$22.87 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 \$0.00	39 40 41 33 34 35 36 37 38 39 40 41 2 2 2 2 3 3 3 3 3 4 3 5 3 6 3 7 3 7 3 8 3 9 4 0 1 3 1 3 3 3 3 4 3 3 3 3 3 3 4 4 3 3 3 3	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.22 \$13.22 \$13.24 \$13.33 \$13.54 \$13.35 \$0.00
Default Service Charge TOTAL Rates - Proposed June 1, 20 Customer Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge TOTAL Difference Customer Charge Distribution Charge External Delivery Charge Stranded Cost Charge Storm Recovery Adj. Factor System Benefits Charge Default Service Charge	\$0.00133 \$0.00576 \$0.10598 \$0.10598 \$0.13595 \$0.00 \$0.0000 \$0.00389 \$0.00101 \$0.00133 \$0.00576 \$0.06872 \$0.09869 \$0.00000		7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$13.20 2 \$15.66 3 \$17.75 6 \$18.90 7 \$22.62 8 \$37.48 9 \$13.33 10 \$14.79 r Rate/Mo. 1 \$0.00 2 \$0.00 3 \$0.00 4 \$0.00 6 \$0.00 7 \$0.00 8 \$0.00 9 \$0.00	18 18 19 20 21 22 Sodium Vap 11 12 13 13 14 15 16 17 18 18 19 20 21 17 18 18 19 20 20 21 17 12 20 20 21 17 12 20 20 20 20 20 20 20 20 20 20 20 20 20	\$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$13.44 \$15.13 \$15.19 \$19.03 \$23.98 \$41.42 \$17.51 \$20.64 \$23.45 \$41.78 \$12.44 \$13.96 or Rate/Mo. \$0.00	Metal Halid 23 24 25 26 27 28 29 30 31 32 Metal Halid 23 24 25 26 27 28 29 30 31 31	\$18.52 \$19.69 \$21.05 \$19.79 \$21.52 \$22.32 \$22.87 \$24.73 \$32.03 \$18.52 \$19.69 \$21.05 \$0.00	39 40 41 33 34 35 36 37 38 39 40 41 2 2 2 2 3 3 3 3 3 4 3 5 3 6 3 7 3 7 3 8 3 9 4 0 1 3 1 3 3 3 3 4 3 3 3 3 3 3 4 4 3 3 3 3	\$13.54 \$13.85 \$13.08 \$13.08 \$13.13 \$13.03 \$13.22 \$13.28 \$13.54 \$13.33 \$13.54 \$13.85 \$0.00

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

Residential Rate D 650 kWh Bill

	6/1/2018	6/1/2019*					% D:ff===================================
Rate Components	Prior Rate	As Revised	Difference	Current Bill	As Revised Bill	Difference	Difference to Total Bill
Customer Charge	\$16.12	\$16.12	\$0.00	\$16.12	\$16.12	\$0.00	0.0%
Customer Charge	\$10.12	\$10.12	φυ.υυ	\$10.12	φ10.1Z	φυ.υυ	0.0%
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.03537	\$0.03537	\$0.00000	\$22.99	\$22.99	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$17.14	\$15.53	(\$1.61)	(1.4%)
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.37)	(\$0.66)	(\$0.29)	(0.3%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$0.86	\$0.86	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00576	\$0.00120	\$2.96	\$3.74	\$0.78	0.7%
Default Service Charge	\$0.08238	\$0.07714	(\$0.00524)	<u>\$53.55</u>	<u>\$50.14</u>	<u>(\$3.41)</u>	<u>(3.0%)</u>
Total kWh Charges	\$0.14944	\$0.14248	(\$0.00696)				
Total Bil	l			\$113.26	\$108.73	(\$4.52)	(4.0%)

	Regular Gener	al G2 Demand,	11 kW, 2,800 k	Wh Typical Bill	ı		
	6/1/2018	6/1/2019*					% Difference <u>to</u>
Rate Components	Prior Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$29.02	\$29.02	\$0.00	\$29.02	\$29.02	\$0.00	0.0%
	<u>All kW</u>	<u>All kW</u>					
Distribution Charge	\$10.45	\$10.45	\$0.00	\$114.95	\$114.95	\$0.00	0.0%
Stranded Cost Charge	<u>(\$0.11)</u>	<u>(\$0.21)</u>	<u>(\$0.10)</u>	<u>(\$1.21)</u>	<u>(\$2.31)</u>	<u>(\$1.10)</u>	<u>(0.3%)</u>
Total kW Charges	\$10.34	\$10.24	(\$0.10)	\$113.74	\$112.64	(\$1.10)	(0.3%)
	<u>\$/kWh</u>	<u>\$/kWh</u>					
Distribution Charge	\$0.00000	\$0.00000	\$0.00000	\$0.00	\$0.00	\$0.00	0.0%
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$73.84	\$66.89	(\$6.94)	(1.6%)
Stranded Cost Charge	(\$0.00011)	(\$0.00021)	(\$0.00010)	(\$0.31)	(\$0.59)	(\$0.28)	(0.1%)
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$3.72	\$3.72	\$0.00	0.0%
System Benefits Charge	\$0.00456	\$0.00576	\$0.00120	\$12.77	\$16.13	\$3.36	0.8%
Default Service Charge	\$0.07377	\$0.06872	(\$0.00505)	<u>\$206.56</u>	\$192.42	<u>(\$14.14)</u>	(3.2%)
Total kWh Charges	\$0.10592	\$0.09949	(\$0.00643)	\$296.58	\$278.57	(\$18.00)	(4.1%)
Total Bill				\$439.34	\$420.23	(\$19.10)	(4.3%)

^{*} Rates do not reflect changes pending in DE 19-043.

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

Regular General	Regular General G2 Quick Recovery Water Heating and Space Heating 1,660 kWh Typical Bill								
	6/1/2018	6/1/2019*					%		
Rate Components	Prior Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Difference to Total Bill		
Customer Charge	\$9.67	\$9.67	\$0.00	\$9.67	\$9.67	\$0.00	0.0%		
	\$/kWh	\$/kWh							
Distribution Charge	\$0.03185	\$0.03185	\$0.00000	\$52.87	\$52.87	\$0.00	0.0%		
External Delivery Charge	\$0.02637	\$0.02389	(\$0.00248)	\$43.77	\$39.66	(\$4.12)	(1.7%)		
Stranded Cost Charge	(\$0.00057)	(\$0.00101)	(\$0.00044)	(\$0.95)	(\$1.68)	(\$0.73)	(0.3%)		
Storm Recovery Adj.	\$0.00133	\$0.00133	\$0.00000	\$2.21	\$2.21	\$0.00	0.0%		
System Benefits Charge	\$0.00456	\$0.00576	\$0.00120	\$7.57	\$9.56	\$1.99	0.8%		
Default Service Charge	\$0.07377	\$0.06872	(\$0.00505)	<u>\$122.46</u>	<u>\$114.08</u>	<u>(\$8.38)</u>	(3.5%)		
Total kWh Charges	\$0.13731	\$0.13054	(\$0.00677)	\$227.93	\$216.70	(\$11.24)	(4.7%)		
Total Bill				\$237.60	\$226.37	(\$11.24)	(4.7%)		

Regular General G2 kWh Meter 115 kWh Typical Bill							
	6/1/2018	6/1/2019*					% Difference to
Rate Components	Prior Rate	As Revised	<u>Difference</u>	Current Bill	As Revised Bill	<u>Difference</u>	Total Bill
Customer Charge	\$18.27	\$18.27	\$0.00	\$18.27	\$18.27	\$0.00	0.0%
	\$/kWh	<u>\$/kWh</u>					
Distribution Charge	\$0.00878	\$0.00878	\$0.00000	\$1.01	\$1.01	\$0.00	0.0%
External Delivery Charge Stranded Cost Charge	\$0.02637 (\$0.00057)	\$0.02389 (\$0.00101)	(\$0.00248) (\$0.00044)	\$3.03 (\$0.07)	\$2.75 (\$0.12)	(\$0.29) (\$0.05)	(0.9%) (0.2%)
Storm Recovery Adj. System Benefits Charge	\$0.00133 \$0.00456	\$0.00133 \$0.00576	\$0.00000 \$0.00120	\$0.15 \$0.52	\$0.15 \$0.66	\$0.00 \$0.14	0.0% 0.4%
Default Service Charge Total kWh Charges	<u>\$0.07377</u> \$0.11424	<u>\$0.06872</u> \$0.10747	(\$0.00505) (\$0.00677)	<u>\$8.48</u> \$13.14	<u>\$7.90</u> \$12.36	(\$0.58) (\$0.78)	<u>(1.8%)</u> (2.5%)
	ψυ. 1 1424	ψ0.10747	(ψυ.υυστη)	•	,	(. ,	,
Total Bill				\$31.41	\$30.63	(\$0.78)	(2.5%)

^{*} Rates do not reflect changes pending in DE 19-043.

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