

May 1, 2019 Step Adjustment

Rate Effective Date		5/1/2019
Line No.	Description	Investment Year 2018
	<u>Utility Plant:</u>	
1	Beginning Utility Plant	\$ 324,214,118
2	Plant Additions	18,361,098
3	Retirements	(1,766,899)
4	Ending Utility Plant	<u>340,808,317</u>
5	Beginning Accumulated Depreciation	114,418,513
6	Depreciation	12,146,479
7	Retirements	(1,766,899)
8	Cost of Removal and Salvage	(1,358,593)
9	Ending Accumulated Depreciation	<u>123,439,500</u>
10	Ending Net Utility Plant	<u>\$ 217,368,817</u>
	<u>Revenue Requirement:</u>	
11	Change in Net Plant	\$ 7,573,212
12	80% of Change in Net Plant	6,058,570
13	Pre-Tax Rate of Return	10.15%
14	Return and Taxes	<u>615,133</u>
15	Depreciation Expense on 80% of Plant Additions ⁽¹⁾	640,729
16	Property Taxes on 80% Change in Net Plant ⁽²⁾	187,210
17	Revenue Requirement	<u>\$ 1,443,072</u>
18	<u>Revenue Requirement Limit:</u>	
19	Revenue Requirement	\$ 1,443,072
20	May 1, 2017, 2018 & 2019 Step Adjustment Revenue Requirement Cap	\$ 4,500,000
21	Less: May 1, 2017 Step Adjustment Revenue Requirement	900,194
22	Add: Tax Rate Reduction to May 1, 2017 Step Adjustment	44,991
23	Less: May 1, 2018 Step Adjustment Revenue Requirement	<u>3,302,989</u>
24	Remaining May 1, 2019 Step Adjustment Revenue Requirement Cap	<u>\$ 341,808</u>
25	Allowable Revenue Requirement (Min of Line 19 or 24)	<u><u>\$ 341,808</u></u>

Notes:

(1) See Annualized Depreciation from page 4

(2) 3.09% rate (2018 Property Taxes of \$6,727,169 / 2018 Net Utility Plant of \$217,368,817)

2018 Gross Plant Detail

Description	Beginning Balance	Additions	Retirements	Ending Balance
301-00 Organization-E	380	-	-	380
303-00 Intangible Software-5 Yea-E	4,506,691	760,778	-	5,267,469
303-01 Intangible Software-3 Yea-E	87,196	-	-	87,196
303-02 Intangible Software-10 Yea-E	4,705,733	-	-	4,705,733
343-00 Prime Movers-E	56,575	-	-	56,575
353-00 Transmission Station Equi-E	-	-	-	-
360-01 ROW - Distribution-E	991,116	-	-	991,116
360-02 ROW - Distribution-E	1,674,812	-	-	1,674,812
361-00 Distribution Structures-E	2,173,616	-	-	2,173,616
362-00 Distribution Station Equi-E	45,775,957	482,629	(75,409)	46,183,177
364-00 Distribution Poles, Tower-E	61,567,986	4,348,899	(448,980)	65,467,905
365-00 Distribution Overhead Con-E	78,753,557	4,677,473	(704,772)	82,726,259
366-00 Distribution Underground -E	1,921,524	132,716	(4,292)	2,049,948
367-00 Distribution Underground -E	19,881,802	1,335,215	(93,582)	21,123,436
368-00 Distribution Line Transfo-E	26,231,769	1,917,442	(5,449)	28,143,763
368-01 Transformer Installations-E	20,391,273	1,877,682	(5,354)	22,263,600
369-00 Distribution Services-E	22,441,287	893,128	(200,440)	23,133,974
370-00 Distribution Meters-E	10,138,977	700,543	-	10,839,521
370-01 Meter Installation-E	4,933,880	700,543	-	5,634,424
371-00 Installations on Customer-E	2,139,641	246,648	(141,975)	2,244,314
373-00 Street Lights & Signal Sy-E	3,320,883	203,123	(86,645)	3,437,361
373-01 Street Lights & Signal Sy-E	-	-	-	-
389-00 General & Misc. Land-E	18,620	-	-	18,620
390-00 Structures-E	4,098,562	12,975	-	4,111,537
390-01 General & Misc. Structure-E	-	-	-	-
391-01 Office Furniture & Fixtur-E	278,782	(1,696)	-	277,086
391-03 Computer Equipment-E	-	-	-	-
392-00 Transportation Equipment-E	1,073,695	-	-	1,073,695
393-00 Stores Equipment-E	79,908	-	-	79,908
394-00 Tools, Shop and garage Eq-E	1,909,247	123,357	-	2,032,604
395-00 Laboratory Equipment-E	852,772	284	-	853,056
397-00 Communication Equipment-E	4,104,932	(50,643)	-	4,054,290
398-00 Miscellaneous Equipment-E	102,943	-	-	102,943
399-00 Other Intangible Plant-E	-	-	-	-
Grand Total	324,214,118	18,361,098	(1,766,899)	340,808,317

2018 Accumulated Depreciation Detail

Description	Beginning Balance	Provision	Retirements	Cost of Removal	Salvage	Ending Balance
301-00 Organization	-	-	-	-	-	-
303-00 Intangible Software-5 Year	3,865,915	256,785	-	-	-	4,122,700
303-01 Intangible Software-3 Year	87,196	-	-	-	-	87,196
303-02 Intangible Software-10 Year	1,203,428	470,573	-	-	-	1,674,001
343-00 Prime Movers	25,475	3,774	-	-	-	29,249
353-00 Transmission Station Equip-E	-	-	-	-	-	-
360-01 ROW - Distribution-E	-	-	-	-	-	-
360-02 ROW - Distribution-E	-	-	-	-	-	-
361-00 Distribution Structures	146,398	53,254	-	-	-	199,652
362-00 Distribution Station Equipme	9,049,261	1,186,616	(75,409)	(52,152)	-	10,108,316
364-00 Distribution Poles, Towers &	23,953,300	2,334,398	(448,980)	(598,930)	4,607	25,244,394
365-00 Distribution Overhead Conduc	24,358,610	2,925,997	(704,772)	(587,509)	11,454	26,003,780
366-00 Distribution Underground Con	627,217	40,314	(4,292)	(2,227)	-	661,012
367-00 Distribution Underground Con	5,964,162	521,668	(93,582)	(81,626)	785	6,311,408
368-00 Distribution Line Transforme	10,167,952	795,176	(5,449)	(13,420)	-	10,944,259
368-01 Transformer Installations	5,258,722	597,113	(5,354)	(33)	-	5,850,448
369-00 Distribution Services	15,510,678	1,286,093	(200,440)	(26,675)	79	16,569,734
370-00 Distribution Meters	4,140,985	511,035	-	-	-	4,652,019
370-01 Meter Installation	798,695	250,780	-	-	-	1,049,475
371-00 Installations on Customers P	512,355	164,982	(141,975)	(17,061)	17,305	535,606
373-00 Street Lights & Signal Syste	2,451,436	262,867	(86,645)	(23,992)	18,459	2,622,126
373-01 Street Lights & Signal Syste	-	-	-	-	-	-
389-00 General & Misc. Land	-	-	-	-	-	-
390-00 Structures	1,594,775	85,362	-	-	-	1,680,137
390-01 General & Misc. Structures	863	-	-	-	-	863
391-01 Office Furniture & Fixtures	(122,521)	16,281	-	-	-	(106,240)
391-03 Computer Equipment	4,346	-	-	-	-	4,346
392-00 Transportation Equipment	1,045,145	-	-	-	-	1,045,145
393-00 Stores Equipment	58,097	2,685	-	-	-	60,782
394-00 Tools, Shop and garage Equip	755,002	71,154	-	-	-	826,156
395-00 Laboratory Equipment	394,803	33,269	-	-	-	428,072
397-00 Communication Equipment	2,477,785	271,281	-	(7,658)	-	2,741,408
398-00 Miscellaneous Equipment	88,434	5,024	-	-	-	93,458
399-00 Other Tangible Property	-	-	-	-	-	-
Grand Total	114,418,513	12,146,479	(1,766,899)	(1,411,283)	52,690	123,439,500

Annualized Depreciation by FERC Account

Description	Additions	Depreciation Rate	Annual Depreciation
303-00 Intangible Software-5 Yea-E	760,778	20.00%	152,156
303-02 Intangible Software-10 Yea-E	-	10.00%	-
361-00 Distribution Structures-E	-	2.45%	-
362-00 Distribution Station Equi-E	482,629	2.60%	12,548
364-00 Distribution Poles, Tower-E	4,348,899	3.70%	160,909
365-00 Distribution Overhead Con-E	4,677,473	3.64%	170,260
366-00 Distribution Underground -E	132,716	2.04%	2,707
367-00 Distribution Underground -E	1,335,215	2.55%	34,048
368-00 Distribution Line Transfo-E	1,917,442	3.00%	57,523
368-01 Transformer Installations-E	1,877,682	2.89%	54,265
369-00 Distribution Services-E	893,128	5.67%	50,640
370-00 Distribution Meters-E	700,543	5.00%	35,027
370-01 Meter Installation-E	700,543	5.00%	35,027
371-00 Installations on Customer-E	246,648	7.56%	18,647
373-00 Street Lights & Signal Sy-E	203,123	7.79%	15,823
390-00 Structures-E	12,975	2.08%	270
391-01 Office Furniture & Fixtur-E	(1,696)	5.83%	(99)
394-00 Tools, Shop and garage Eq-E	123,357	3.64%	4,490
395-00 Laboratory Equipment-E	284	3.90%	11
397-00 Communication Equipment-E	(50,643)	6.60%	(3,342)
Grand Total	18,361,098	4.36%	800,911

Pre-Tax Rate of Return
December 31, 2015 Pro Forma

Line No.	Description	Proformed Amount	Weight	Cost of Capital	Weighted Cost of Capital	Tax Factor ⁽¹⁾	Pre-Tax Cost
1	Common Stock Equity	\$ 77,284,950	50.97%	9.50%	4.84%	1.3744	6.65%
2	Preferred Stock Equity	189,800	0.13%	6.00%	0.01%		0.01%
3	Long Term Debt	74,000,000	48.80%	7.15%	3.49%		3.49%
4	Short Term Debt	161,783	0.11%	1.54%	0.00%		0.00%
5	Total	\$ 151,636,533	100.00%		8.34%		10.15%

Notes:

(1) Tax factor calculated using a Federal Tax Rate of 21% and State Tax Rate of 7.9% (effective tax rate of 27.241%)

**UNITIL ENERGY SYSTEMS, INC.
MAJOR STORM COST RESERVE COLLECTION BALANCE**

Docket No. DE 19-____
Schedule TRD-2
MSCR Collection Balance
Page 1 of 1

	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18
Beginning (Over)/Under Collection	\$ 406,966	\$ 1,161,973	\$ 1,009,342	\$ 2,862,064	\$ 2,758,708	\$ 4,539,995
Storm Costs	1,374,471	593,310	2,521,986	572,142	2,438,860	2,260,220
Transfers ⁽¹⁾	-	-	-	-	-	1,257,109
Customer Revenue	666,667	800,000	800,000	800,000	800,000	800,000
Interest	47,203	54,059	130,737	124,502	142,427	248,944
Ending (Over)/Under Collection	\$ 1,161,973	\$ 1,009,342	\$ 2,862,065	\$ 2,758,708	\$ 4,539,995	\$ 4,992,050
Proposed Adjustment ⁽²⁾	-	-	-	-	-	1,618,723
Adjusted Ending (Over)/Under Collection	1,161,973	1,009,342	2,862,065	2,758,708	4,539,995	3,373,327

Note:

(1) Per Order No. 26,123, the Company moved \$1,257,109 in costs related to the 10/30/17 Windstorm Event (costs reported in the 2017 MSCR Report, plus associated carrying charges) to the SRAF

(2) Proposed adjustment to remove Winter Storm Quinn (costs reported in the 2018 MSCR Report, plus associated carrying charges) to the SRAF

UNITIL ENERGY SYSTEMS, INC.
Winter Storm Quinn (March 2018) Incremental Cost - Recovery
Calculation of Increment to the Storm Recovery Adjustment Factor
Effective May 1, 2019

Description	Amount
Incremental Annual Recovery (Page 2)	\$ 581,518
Sales (kWh) - 12 months ending December 31, 2018	<u>1,224,436,868</u>
Storm Recovery Adjustment Factor (Increment, \$/kWh)*	<u>\$ 0.00047</u>

* To be added to the current Storm Recovery Adjustment Factor.

Current SRAF (effective February 2019)	\$ 0.00133
less: recovery of December 2008 ice storm & February 2010 wind storm (terminates effective 5/1/2019)	\$ (0.00096)
plus: recovery of Winter Storm Quinn (proposed for effect 5/1/2019)	<u>\$ 0.00047</u>
Total SRAF for effect May 1, 2019:	\$ 0.00084

UNITIL ENERGY SYSTEMS, INC.
Winter Storm Quinn (March 2018) - Recovery Schedule

	<u>Year</u> (A)	<u>Beginning Balance With Interest</u> (B)	<u>Annual Recovery</u> (C)	<u>Ending Balance</u> (D)	<u>Balance Subject to Interest</u> (E)	<u>Interest Rate</u> (F)	<u>Interest</u> (G)	<u>Cumulative Interest</u> (H)
(1)	May 2019 - April 2020	\$ 1,618,723	\$ 581,518	\$ 1,037,204	\$ 1,327,964	5.20%	\$ 69,054	\$ 69,054
(2)	May 2020 - April 2021	\$ 1,106,259	\$ 581,518	\$ 524,740	\$ 815,499	5.20%	\$ 42,406	\$ 111,460
(3)	May 2021 - April 2022	\$ 567,146	\$ 581,518	\$ (14,372)	\$ 276,387	5.20%	\$ 14,372	\$ 125,832
	Total Recovery		\$ 1,744,555				\$ 125,832	

Column
Notes

- (A) Time period
- (B) Prior period Column (D) + Prior period Column (G)
- (C) Annual Recovery
- (D) Column (B) - Column (C)
- (E) (Column (B) + Column (D)) ÷ 2
- (F) UES's Cost of Debt net of deferred taxes
- (G) Column (E) times Column (F)
- (H) Prior Year Column (H) + Current Year Column (G)

UNITIL ENERGY SYSTEMS, INC.
Winter Storm Quinn (March 2018) Incremental Costs

	<u>Month</u> (A)	<u>Beginning Balance</u> (B)	Winter Storm <u>Quinn Charges</u> (C)	<u>Ending Balance</u> (D)	<u>Balance Subject to Interest</u> (E)	<u>Interest Rate</u> (F)	<u>Interest</u> (G)	<u>Balance</u> (H)
(1)	Mar-Oct 2018	\$0	\$1,550,964	\$1,550,964	\$775,482	5.20%	\$27,068	\$1,578,031
(2)	Nov 2018 - Apr 2019	\$1,578,031	\$0	\$1,578,031	\$1,578,031	5.20%	\$40,692	\$1,618,723
			\$1,550,964				\$67,759	\$1,618,723

Unitil Energy Systems, Inc.
PUC 308.11 - F-1 Rate of Return
12 Months Ending December 31, 2018

Schedule 1: Calculation of Per Books Rate of Return

<u>Cost of Service</u>	<u>Rolling 12 Months</u>	<u>Rate Base</u>	<u>Period End</u>
Electric Service Revenue	\$ 155,025,055	Utility Plant in Service	\$ 340,808,317
Other Operating Revenue	2,623,127	Less: Reserve for Depreciation & Amortization	123,439,500
Total Operating Revenue	157,648,182	Net Utility Plant	217,368,817
<i>Operating Expenses:</i>		<i>Plus:</i>	
Purchased Power	61,038,767	M&S Inventories	1,794,149
Transmission	29,521,428	Cash Working Capital	2,919,467
Distribution	9,286,501	Prepayments	5,224,634
Cust. Accounting & Service	8,506,053	Regulatory Assets	1,916,999
Admin. & General	10,665,287		
Depreciation	11,419,121	<i>Less:</i>	
Amortization	3,484,160	Deferred Income Taxes	39,777,804
Taxes-Other Than Income	6,519,710	Regulatory Liabilities	15,621,909
State & Federal Income Taxes - Adjusted	3,119,845	Customer Advances	616,161
Int on Customer Deposits	32,204	Customer Deposits	670,910
Total Operating Expenses	143,593,074	Total Rate Base	\$ 172,537,282
Net Operating Income	\$ 14,055,108	Utility Operating Income - Current Cost of Capital	\$ 13,130,087
Less: Flow-Through Oper. Inc. (Exc. Lost Base Rev.)	820,163	Utility Operating Income - Adjusted	\$ 13,234,945
Net Operating Income - Adjusted	\$ 13,234,945	Operating Income Deficiency (Surplus)	\$ (104,858)
		Income Tax Gross-Up	\$ (39,259)
		Revenue Deficiency (Surplus)	\$ (144,117)
		Return on Rate Base - Actual	7.67%
		Return on Rate Base - Current Cost of Capital	7.61%
		ROE - Actual	9.65%
		ROE - Authorized DE 16-384	9.50%

Schedule 2: Current Cost of Capital

	<u>Amount</u>	<u>Percent</u>	<u>Cost Rate</u>	<u>Weighted</u>
	<u>Outstanding</u>	<u>Total</u>		<u>Cost Rate</u>
Common Equity	\$ 83,926,900	44.74%	9.50%	4.25%
Preferred Stock Equity	\$ 189,300	0.10%	6.00%	0.01%
Long Term Debt	\$ 96,000,000	51.17%	6.30%	3.22%
Short Term Debt (a)	\$ 7,487,836	3.99%	3.14%	0.13%
Total	\$ 187,604,036	100.00%		7.61%

(a) Excluding Accrued Revenue, Power Supply Working Capital and CWIP

Unitil Energy Systems, Inc.
Rate Design Calculation
Individual Rate Design Calculations

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Test Year 2015 Billing Units	Step 1 Adjustment Rates	Step 2 Adjustment Rates	Step 2 Tax Adjusted Rates	Tax Adjusted Revenue May 1, 2018	Percent Change	Step 3 Adjustment Rates	Step 3 Adjustment Revenue May 1, 2019	Percent Change
Residential - D									
Test Year Consumers	785,306	\$15.24	\$16.12	\$16.12	\$12,661,259	0.00%	\$16.22	\$12,735,726	0.59%
All kWh	497,875,828	\$0.03566	\$0.03773	\$0.03537	\$17,609,495	-6.25%	\$0.03558	\$17,713,066	0.59%
Total Design Revenue					\$30,270,754	-3.73%		\$30,448,792	0.59%
Small General Service - G2 kWh									
Test Year Consumers	5,238	\$17.27	\$18.27	\$18.27	\$95,717	0.00%	\$18.38	\$96,280	0.59%
Annual kWh	607,397	\$0.01440	\$0.01523	\$0.00878	\$5,332	-42.36%	\$0.00883	\$5,364	0.59%
Total Design Revenue					\$101,050	-3.73%		\$101,644	0.59%
Small General Service - G2 QR WH /SH									
Test Year Consumers	3,454	\$9.14	\$9.67	\$9.67	\$33,411	0.00%	\$9.73	\$33,608	0.59%
Annual kWh	5,742,223	\$0.03149	\$0.03331	\$0.03185	\$182,883	-4.39%	\$0.03204	\$183,958	0.59%
Total Design Revenue					\$216,294	-3.73%		\$217,566	0.59%
Small General Service - G2 Demand									
Test Year Consumers	123,180	\$27.43	\$29.02	\$29.02	\$3,574,789	0.00%	\$29.19	\$3,595,814	0.59%
Demand kW	1,348,556	\$10.35	\$10.95	\$10.45	\$14,086,374	-4.63%	\$10.51	\$14,169,223	0.59%
Annual kWh	347,811,789	\$0.00000	\$0.00000	\$0.00000	\$0	0.00%	\$0.00000	\$0	0.00%
Total Design Revenue					\$17,661,162	-3.73%		\$17,765,037	0.59%
G2 Demand - kW Transformer Ownership Discount									
Test Year kW	50,269	(\$0.50)	(\$0.50)	(\$0.50)	-\$25,134		(\$0.50)	-\$25,134	
Total Design Revenue					-\$25,134	0.00%		-\$25,134	0.00%
Subtotal G2 Demand inc. Transformer Ownership Discount									
Total Design Revenue					\$17,636,028	-3.73%		\$17,739,903	0.59%
Large General Service - G1									
Test Year Consumers Secondary	1,497	\$152.40	\$161.23	\$161.23	\$241,357		\$162.18	\$242,776	
Test Year Consumers Primary	381	\$81.28	\$85.99	\$85.99	\$32,761		\$86.49	\$32,954	
Demand kVA	1,022,850	\$7.42	\$7.85	\$7.55	\$7,723,570		\$7.60	\$7,768,997	
Annual kWh	353,924,392	\$0.00000	\$0.00000	\$0.00000	\$0		\$0.00000	\$0	
Total Design Revenue					\$7,997,688	-3.64%		\$8,044,727	0.59%
G1 - kVA Transformer Ownership Discount									
Test Year kVA	415,470	(\$0.50)	(\$0.50)	(\$0.50)	-\$207,735		(\$0.50)	-\$207,735	
Total Design Revenue					-\$207,735	0.00%		-\$207,735	0.00%
Subtotal G1 inc. Transformer Ownership Discount									
Total Design Revenue					\$7,789,953	-3.73%		\$7,836,992	0.60%

Unitil Energy Systems, Inc.
Rate Design Calculation
Individual Rate Design Calculations

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Test Year 2015 Billing Units	Step 1 Adjustment Rates	Step 2 Adjustment Rates	Step 2 Tax Adjusted Rates	Tax Adjusted Revenue May 1, 2018	Percent Change	Step 3 Adjustment Rates	Step 3 Adjustment Revenue May 1, 2019	Percent Change
Outdoor Lighting - OL									
Delivery charge - Annual kWh	8,241,454	\$0.00000	\$0.00000	\$0.00000	\$0		\$0.00000	\$0	
Fixture revenue									
100W Mercury Vapor Street	17,494	\$12.96	\$13.72	\$13.20	\$230,973		\$13.28	\$232,331	
175W Mercury Vapor Street	894	\$15.37	\$16.26	\$15.66	\$13,999		\$15.75	\$14,081	
250W Mercury Vapor Street	945	\$17.42	\$18.43	\$17.75	\$16,771		\$17.85	\$16,869	
400W Mercury Vapor Street	1,940	\$20.75	\$21.95	\$21.13	\$40,994		\$21.25	\$41,235	
1000W Mercury Vapor Street	24	\$41.19	\$43.57	\$41.95	\$1,007		\$42.19	\$1,013	
250W Mercury Vapor Flood	850	\$18.56	\$19.64	\$18.90	\$16,062		\$19.02	\$16,157	
400W Mercury Vapor Flood	1,403	\$22.21	\$23.50	\$22.62	\$31,740		\$22.75	\$31,926	
1000W Mercury Vapor Flood	272	\$36.80	\$38.93	\$37.48	\$10,200		\$37.70	\$10,260	
100W Mercury Vapor Power Bracket	4,860	\$13.09	\$13.84	\$13.33	\$64,773		\$13.41	\$65,154	
175W Mercury Vapor Power Bracket	715	\$14.52	\$15.36	\$14.79	\$10,573		\$14.87	\$10,635	
50W Sodium Vapor Street	41,383	\$13.20	\$13.96	\$13.44	\$556,227		\$13.52	\$559,499	
100W Sodium Vapor Street	1,182	\$14.85	\$15.71	\$15.13	\$17,879		\$15.22	\$17,985	
150W Sodium Vapor Street	4,221	\$14.92	\$15.78	\$15.19	\$64,121		\$15.28	\$64,498	
250W Sodium Vapor Street	13,250	\$18.68	\$19.77	\$19.03	\$252,123		\$19.14	\$253,606	
400W Sodium Vapor Street	3,106	\$23.55	\$24.91	\$23.98	\$74,508		\$24.13	\$74,946	
1000W Sodium Vapor Street	1,728	\$40.67	\$43.03	\$41.42	\$71,575		\$41.66	\$71,996	
150W Sodium Vapor Flood	2,796	\$17.19	\$18.19	\$17.51	\$48,947		\$17.61	\$49,235	
250W Sodium Vapor Flood	3,708	\$20.27	\$21.44	\$20.64	\$76,549		\$20.76	\$76,999	
400W Sodium Vapor Flood	4,724	\$23.02	\$24.36	\$23.45	\$110,756		\$23.58	\$111,408	
1000W Sodium Vapor Flood	2,789	\$41.03	\$43.40	\$41.78	\$116,532		\$42.03	\$117,217	
50W Sodium Vapor Power Bracket	1,304	\$12.21	\$12.92	\$12.44	\$16,222		\$12.51	\$16,318	
100W Sodium Vapor Power Bracket	777	\$13.71	\$14.50	\$13.96	\$10,844		\$14.04	\$10,908	
175W Metal Halide Street	19	\$19.44	\$20.56	\$19.79	\$374		\$19.91	\$376	
250W Metal Halide Street	0	\$21.13	\$22.36	\$21.52	\$0		\$21.65	\$0	
400W Metal Halide Street	0	\$21.92	\$23.18	\$22.32	\$0		\$22.45	\$0	
175W Metal Halide Flood	0	\$22.45	\$23.75	\$22.87	\$0		\$23.00	\$0	
250W Metal Halide Flood	0	\$24.24	\$25.65	\$24.69	\$0		\$24.83	\$0	
400W Metal Halide Flood	0	\$24.28	\$25.69	\$24.73	\$0		\$24.88	\$0	
1000W Metal Halide Flood	465	\$31.46	\$33.28	\$32.03	\$14,882		\$32.22	\$14,970	
175W Metal Halide Power Bracket	0	\$18.19	\$19.24	\$18.52	\$0		\$18.63	\$0	
250W Metal Halide Power Bracket	0	\$19.34	\$20.45	\$19.69	\$0		\$19.81	\$0	
400W Metal Halide Power Bracket	0	\$20.67	\$21.86	\$21.05	\$0		\$21.17	\$0	

Unitil Energy Systems, Inc.
Rate Design Calculation
Individual Rate Design Calculations

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	Test Year 2015 Billing Units	Step 1 Adjustment Rates	Step 2 Adjustment Rates	Step 2 Tax Adjusted Rates	Tax Adjusted Revenue May 1, 2018	Percent Change	Step 3 Adjustment Rates	Step 3 Adjustment Revenue May 1, 2019	Percent Change
42W 3600 K LED Area Light Fixture	0	\$12.85	\$13.59	\$13.08	\$0		\$13.16	\$0	
57W 5200K LED Area Light Fixture	0	\$12.89	\$13.64	\$13.13	\$0		\$13.21	\$0	
25W 3000K LED Cobra Head Fixture	0	\$12.80	\$13.54	\$13.03	\$0		\$13.11	\$0	
88W 8300K LED Cobra Head Fixture	0	\$12.98	\$13.73	\$13.22	\$0		\$13.30	\$0	
108W 11500K LED Cobra Head Fixture	0	\$13.04	\$13.80	\$13.28	\$0		\$13.36	\$0	
193W 21000K LED Cobra Head Fixture	0	\$13.29	\$14.06	\$13.54	\$0		\$13.62	\$0	
123W 12180K LED Flood Light Fixture	0	\$13.09	\$13.84	\$13.33	\$0		\$13.41	\$0	
194W 25700K LED Flood Light Fixture	0	\$13.30	\$14.07	\$13.54	\$0		\$13.62	\$0	
297W 38100K LED Flood Light Fixture	0	\$13.60	\$14.39	\$13.85	\$0		\$13.93	\$0	
Total Design Revenue					\$1,868,631	-3.73%		\$1,879,622	0.59%
Total Design Revenue					\$57,882,710			\$58,224,518	
Total Billed kWh	1,214,203,082								
Total Billed kW/kVA	2,371,406								
Step Adjustment \$ (does not include recoupment)								\$341,808	
Step Adjustment Percentage Change (not including transformer discounts)								0.59%	
Step Adjustment Percentage Change Total								0.59%	

Unitil Energy Systems, Inc.
Typical Bill Impacts - January 1, 2019 vs. May 1, 2019
Step Adjustment Filing - February 28, 2019
Impact on D Rate Customers

<u>Average kWh</u>	<u>Total Bill Using Rates 1/1/2019</u>	<u>Total Bill Using Rates 5/1/2019</u>	<u>Total Difference</u>	<u>% Total Difference</u>
125	\$38.90	\$38.96	\$0.06	0.2%
150	\$43.45	\$43.51	\$0.06	0.1%
200	\$52.57	\$52.61	\$0.04	0.1%
250	\$61.68	\$61.71	\$0.03	0.0%
300	\$70.79	\$70.81	\$0.02	0.0%
350	\$79.90	\$79.90	\$0.00	0.0%
400	\$89.01	\$89.00	(\$0.01)	(0.0%)
450	\$98.12	\$98.10	(\$0.03)	(0.0%)
500	\$107.24	\$107.20	(\$0.04)	(0.0%)
525	\$111.79	\$111.74	(\$0.05)	(0.0%)
550	\$116.35	\$116.29	(\$0.05)	(0.0%)
575	\$120.90	\$120.84	(\$0.06)	(0.1%)
600	\$125.46	\$125.39	(\$0.07)	(0.1%)
625	\$130.01	\$129.94	(\$0.07)	(0.1%)
650	\$134.57	\$134.49	(\$0.08)	(0.1%)
675	\$139.13	\$139.04	(\$0.09)	(0.1%)
700	\$143.68	\$143.59	(\$0.10)	(0.1%)
725	\$148.24	\$148.13	(\$0.10)	(0.1%)
750	\$152.79	\$152.68	(\$0.11)	(0.1%)
775	\$157.35	\$157.23	(\$0.12)	(0.1%)
825	\$166.46	\$166.33	(\$0.13)	(0.1%)
925	\$184.68	\$184.52	(\$0.16)	(0.1%)
1,000	\$198.35	\$198.17	(\$0.18)	(0.1%)
1,250	\$243.91	\$243.66	(\$0.25)	(0.1%)
1,500	\$289.47	\$289.15	(\$0.32)	(0.1%)
2,000	\$380.58	\$380.12	(\$0.46)	(0.1%)
3,500	\$653.93	\$653.05	(\$0.88)	(0.1%)
5,000	\$927.27	\$925.97	(\$1.30)	(0.1%)

	<u>Rates - Effective January 1, 2019</u>	<u>Rates - Proposed May 1, 2019</u>	<u>Difference</u>
Customer Charge	\$16.12	\$16.22	\$0.10
	<u>kWh</u>	<u>kWh</u>	<u>kWh</u>
Distribution Charge:	\$0.03537	\$0.03558	\$0.00021
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000
Storm Recovery Adjustment Factor	\$0.00133	\$0.00084	(\$0.00049)
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge	<u>\$0.11689</u>	<u>\$0.11689</u>	<u>\$0.00000</u>
TOTAL	\$0.18223	\$0.18195	(\$0.00028)

Unitil Energy Systems, Inc.
Typical Bill Impacts - January 1, 2019 vs. May 1, 2019
Step Adjustment Filing - February 28, 2019
Impact on G2 Rate Customers

<u>Load Factor</u>	<u>Average Monthly kW</u>	<u>Average Monthly kWh</u>	<u>Total Bill Using Rates 1/1/2019</u>	<u>Total Bill Using Rates 5/1/2019</u>	<u>Total Difference</u>	<u>% Total Difference</u>
20%	5	730	\$180.05	\$180.16	\$0.11	0.1%
20%	10	1,460	\$331.08	\$331.13	\$0.05	0.0%
20%	15	2,190	\$482.10	\$482.10	(\$0.00)	(0.0%)
20%	25	3,650	\$784.16	\$784.04	(\$0.12)	(0.0%)
20%	50	7,300	\$1,539.30	\$1,538.89	(\$0.41)	(0.0%)
20%	75	10,950	\$2,294.43	\$2,293.74	(\$0.70)	(0.0%)
20%	100	14,600	\$3,049.57	\$3,048.59	(\$0.98)	(0.0%)
20%	150	21,900	\$4,559.85	\$4,558.28	(\$1.56)	(0.0%)
36%	5	1,314	\$259.91	\$259.74	(\$0.17)	(0.1%)
36%	10	2,628	\$490.80	\$490.28	(\$0.52)	(0.1%)
36%	15	3,942	\$721.69	\$720.83	(\$0.86)	(0.1%)
36%	25	6,570	\$1,183.47	\$1,181.92	(\$1.55)	(0.1%)
36%	50	13,140	\$2,337.92	\$2,334.65	(\$3.27)	(0.1%)
36%	75	19,710	\$3,492.36	\$3,487.37	(\$4.99)	(0.1%)
36%	100	26,280	\$4,646.81	\$4,640.10	(\$6.71)	(0.1%)
36%	150	39,420	\$6,955.71	\$6,945.56	(\$10.15)	(0.1%)
50%	5	1,825	\$329.79	\$329.36	(\$0.42)	(0.1%)
50%	10	3,650	\$630.56	\$629.54	(\$1.02)	(0.2%)
50%	15	5,475	\$931.33	\$929.71	(\$1.61)	(0.2%)
50%	25	9,125	\$1,532.86	\$1,530.06	(\$2.80)	(0.2%)
50%	50	18,250	\$3,036.71	\$3,030.94	(\$5.77)	(0.2%)
50%	75	27,375	\$4,540.55	\$4,531.81	(\$8.74)	(0.2%)
50%	100	36,500	\$6,044.40	\$6,032.68	(\$11.72)	(0.2%)
50%	150	54,750	\$9,052.08	\$9,034.43	(\$17.66)	(0.2%)
	<u>Rates - Effective January 1, 2019</u>	<u>Rates - Proposed May 1, 2019</u>	<u>Difference</u>			
Customer Charge	\$29.02	\$29.19	\$0.17			
	<u>All kW</u>	<u>All kW</u>	<u>All kW</u>			
Distribution Charge	\$10.45	\$10.51	\$0.06			
Stranded Cost Charge	(\$0.21)	(\$0.21)	\$0.00			
TOTAL	\$10.24	\$10.30	\$0.06			
	<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	\$0.00084	(\$0.00049)			
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000			
Default Service Charge	<u>\$0.10598</u>	<u>\$0.10598</u>	<u>\$0.00000</u>			
TOTAL	\$0.13675	\$0.13626	(\$0.00049)			

Unitil Energy Systems, Inc. Typical Bill Impacts - January 1, 2019 vs. May 1, 2019 Step Adjustment Filing - February 28, 2019 Impact on G2 kWh Meter Rate Customers				
Average Monthly kWh	Total Bill Using Rates 1/1/2019	Total Bill Using Rates 5/1/2019	Total Difference	% Total Difference
15	\$20.44	\$20.54	\$0.10	0.5%
75	\$29.12	\$29.20	\$0.08	0.3%
150	\$39.98	\$40.02	\$0.04	0.1%
250	\$54.45	\$54.45	\$0.00	0.0%
350	\$68.93	\$68.88	(\$0.04)	(0.1%)
450	\$83.40	\$83.31	(\$0.09)	(0.1%)
550	\$97.87	\$97.74	(\$0.13)	(0.1%)
650	\$112.34	\$112.17	(\$0.18)	(0.2%)
750	\$126.82	\$126.60	(\$0.22)	(0.2%)
900	\$148.53	\$148.24	(\$0.29)	(0.2%)
	Rates - Effective January 1, 2019	Rates - Proposed May 1, 2019	Difference	
kWh Meter Customer Charge	\$18.27	\$18.38	\$0.11	
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge	\$0.00878	\$0.00883	\$0.00005	
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000	
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000	
Storm Recovery Adjustment Factor	\$0.00133	\$0.00084	(\$0.00049)	
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	
Default Service Charge	\$0.10598	\$0.10598	\$0.00000	
TOTAL	\$0.14473	\$0.14429	(\$0.00044)	

Unitil Energy Systems, Inc. Typical Bill Impacts - January 1, 2019 vs. May 1, 2019 Step Adjustment Filing - February 28, 2019 Impact on G2 QRWH and SH Rate Customers				
Average kWh	Total Bill Using Rates 1/1/2019	Total Bill Using Rates 5/1/2019	Total Difference	% Total Difference
100	\$26.45	\$26.48	\$0.03	0.1%
200	\$43.23	\$43.23	\$0.00	0.0%
300	\$60.01	\$59.98	(\$0.03)	(0.0%)
400	\$76.79	\$76.73	(\$0.06)	(0.1%)
500	\$93.57	\$93.48	(\$0.09)	(0.1%)
750	\$135.52	\$135.36	(\$0.16)	(0.1%)
1,000	\$177.47	\$177.23	(\$0.24)	(0.1%)
1,500	\$261.37	\$260.98	(\$0.39)	(0.1%)
2,000	\$345.27	\$344.73	(\$0.54)	(0.2%)
2,500	\$429.17	\$428.48	(\$0.69)	(0.2%)
	Rates - Effective January 1, 2019	Rates - Proposed May 1, 2019	Difference	
Customer Charge	\$9.67	\$9.73	\$0.06	
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>	
Distribution Charge	\$0.03185	\$0.03204	\$0.00019	
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000	
Stranded Cost Charge	(\$0.00101)	(\$0.00101)	\$0.00000	
Storm Recovery Adjustment Factor	\$0.00133	\$0.00084	(\$0.00049)	
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000	
Default Service Charge	<u>\$0.10598</u>	<u>\$0.10598</u>	<u>\$0.00000</u>	
TOTAL	\$0.16780	\$0.16750	(\$0.00030)	

Unitil Energy Systems, Inc.
Typical Bill Impacts - January 1, 2019 vs. May 1, 2019
Step Adjustment Filing - February 28, 2019
Impact on G1 Rate Customers

Load Factor	Average Monthly kVa	Average Monthly kWh	Total Bill Using Rates 1/1/2019	Total Bill Using Rates 5/1/2019	Total Difference	% Total Difference
25.0%	200	36,500	\$6,224.61	\$6,217.68	(\$6.93)	(0.1%)
25.0%	400	73,000	\$12,287.99	\$12,273.17	(\$14.82)	(0.1%)
25.0%	600	109,500	\$18,351.37	\$18,328.67	(\$22.71)	(0.1%)
25.0%	800	146,000	\$24,414.75	\$24,384.16	(\$30.59)	(0.1%)
25.0%	1,000	182,500	\$30,478.13	\$30,439.66	(\$38.47)	(0.1%)
25.0%	1,500	273,750	\$45,636.58	\$45,578.39	(\$58.19)	(0.1%)
25.0%	2,000	365,000	\$60,795.03	\$60,717.13	(\$77.90)	(0.1%)
25.0%	2,500	456,250	\$75,953.48	\$75,855.87	(\$97.61)	(0.1%)
25.0%	3,000	547,500	\$91,111.93	\$90,994.61	(\$117.32)	(0.1%)
40.0%	200	58,400	\$8,986.64	\$8,968.97	(\$17.67)	(0.2%)
40.0%	400	116,800	\$17,812.05	\$17,775.76	(\$36.28)	(0.2%)
40.0%	600	175,200	\$26,637.45	\$26,582.56	(\$54.90)	(0.2%)
40.0%	800	233,600	\$35,462.86	\$35,389.35	(\$73.51)	(0.2%)
40.0%	1,000	292,000	\$44,288.27	\$44,196.14	(\$92.13)	(0.2%)
40.0%	1,500	438,000	\$66,351.79	\$66,213.12	(\$138.67)	(0.2%)
40.0%	2,000	584,000	\$88,415.31	\$88,230.10	(\$185.21)	(0.2%)
40.0%	2,500	730,000	\$110,478.83	\$110,247.08	(\$231.75)	(0.2%)
40.0%	3,000	876,000	\$132,542.35	\$132,264.06	(\$278.29)	(0.2%)
57.0%	200	83,220	\$12,116.94	\$12,087.11	(\$29.83)	(0.2%)
57.0%	400	166,440	\$24,072.64	\$24,012.04	(\$60.61)	(0.3%)
57.0%	600	249,660	\$36,028.35	\$35,936.97	(\$91.38)	(0.3%)
57.0%	800	332,880	\$47,984.06	\$47,861.89	(\$122.16)	(0.3%)
57.0%	1,000	416,100	\$59,939.76	\$59,786.82	(\$152.94)	(0.3%)
57.0%	1,500	624,150	\$89,829.03	\$89,599.14	(\$229.88)	(0.3%)
57.0%	2,000	832,200	\$119,718.29	\$119,411.47	(\$306.83)	(0.3%)
57.0%	2,500	1,040,250	\$149,607.56	\$149,223.79	(\$383.77)	(0.3%)
57.0%	3,000	1,248,300	\$179,496.83	\$179,036.11	(\$460.72)	(0.3%)
71.0%	200	103,660	\$14,694.83	\$14,654.99	(\$39.84)	(0.3%)
71.0%	400	207,320	\$29,228.43	\$29,147.79	(\$80.64)	(0.3%)
71.0%	600	310,980	\$43,762.03	\$43,640.60	(\$121.43)	(0.3%)
71.0%	800	414,640	\$58,295.63	\$58,133.40	(\$162.22)	(0.3%)
71.0%	1,000	518,300	\$72,829.23	\$72,626.21	(\$203.02)	(0.3%)
71.0%	1,500	777,450	\$109,163.22	\$108,858.22	(\$305.00)	(0.3%)
71.0%	2,000	1,036,600	\$145,497.22	\$145,090.24	(\$406.98)	(0.3%)
71.0%	2,500	1,295,750	\$181,831.22	\$181,322.25	(\$508.97)	(0.3%)
71.0%	3,000	1,554,900	\$218,165.22	\$217,554.27	(\$610.95)	(0.3%)

	<u>Rates - Effective January 1, 2019</u>	<u>Rates - Proposed May 1, 2019</u>	<u>Difference</u>
Customer Charge	\$161.23	\$162.18	\$0.95
	<u>All kVA</u>	<u>All kVA</u>	<u>All kVA</u>
Distribution Charge	\$7.55	\$7.60	\$0.05
Stranded Cost Charge	<u>(\$0.25)</u>	<u>(\$0.25)</u>	<u>\$0.00</u>
TOTAL	\$7.30	\$7.35	\$0.05
	<u>All kWh</u>	<u>All kWh</u>	<u>All kWh</u>
Distribution Charge	\$0.00000	\$0.00000	\$0.00000
External Delivery Charge	\$0.02389	\$0.02389	\$0.00000
Stranded Cost Charge	<u>(\$0.00025)</u>	<u>(\$0.00025)</u>	<u>\$0.00000</u>
Storm Recovery Adjustment Factor	\$0.00133	\$0.00084	(\$0.00049)
System Benefits Charge	\$0.00576	\$0.00576	\$0.00000
Default Service Charge*	<u>\$0.09539</u>	<u>\$0.09539</u>	<u>\$0.00000</u>
TOTAL	\$0.12612	\$0.12563	(\$0.00049)

* Default Service Charge for the G1 class is determined monthly. For purposes of this comparison, the February 2019 rate is unchanged.

Unitil Energy Systems, Inc. Typical Bill Impacts - January 1, 2019 vs. May 1, 2019 Step Adjustment Filing - February 28, 2019 Impact on OL Rate Customers *									
	Nominal Watts	Lumens	Type	Average Monthly kWh	Total Bill Using Rates 1/1/2019	Total Bill Using Rates 5/1/2019	Total Difference	% Total Difference	
<u>Mercury Vapor:</u>									
1	100	3,500	ST	43	\$19.05	\$19.10	\$0.06	0.3%	
2	175	7,000	ST	71	\$25.31	\$25.37	\$0.06	0.2%	
3	250	11,000	ST	100	\$31.35	\$31.40	\$0.05	0.2%	
4	400	20,000	ST	157	\$42.47	\$42.52	\$0.04	0.1%	
5	1,000	60,000	ST	372	\$92.52	\$92.58	\$0.06	0.1%	
6	250	11,000	FL	100	\$32.50	\$32.57	\$0.07	0.2%	
7	400	20,000	FL	157	\$43.96	\$44.02	\$0.05	0.1%	
8	1,000	60,000	FL	380	\$89.14	\$89.17	\$0.03	0.0%	
9	100	3,500	PB	48	\$19.86	\$19.91	\$0.06	0.3%	
10	175	7,000	PB	71	\$24.44	\$24.49	\$0.05	0.2%	
<u>High Pressure Sodium:</u>									
11	50	4,000	ST	23	\$16.57	\$16.64	\$0.07	0.4%	
12	100	9,500	ST	48	\$21.66	\$21.72	\$0.07	0.3%	
13	150	16,000	ST	65	\$24.03	\$24.08	\$0.06	0.2%	
14	250	30,000	ST	102	\$32.90	\$32.96	\$0.06	0.2%	
15	400	50,000	ST	161	\$45.87	\$45.94	\$0.07	0.2%	
16	1,000	140,000	ST	380	\$93.08	\$93.13	\$0.05	0.1%	
17	150	16,000	FL	65	\$26.35	\$26.41	\$0.07	0.3%	
18	250	30,000	FL	102	\$34.51	\$34.58	\$0.07	0.2%	
19	400	50,000	FL	161	\$45.34	\$45.39	\$0.05	0.1%	
20	1,000	140,000	FL	380	\$93.44	\$93.50	\$0.06	0.1%	
21	50	4,000	PB	23	\$15.57	\$15.63	\$0.06	0.4%	
22	100	95,000	PB	48	\$20.49	\$20.54	\$0.06	0.3%	
<u>Metal Halide:</u>									
23	175	8,800	ST	74	\$29.85	\$29.93	\$0.08	0.3%	
24	250	13,500	ST	102	\$35.39	\$35.47	\$0.08	0.2%	
25	400	23,500	ST	158	\$43.80	\$43.85	\$0.05	0.1%	
26	175	8,800	FL	74	\$32.93	\$33.02	\$0.09	0.3%	
27	250	13,500	FL	102	\$38.56	\$38.65	\$0.09	0.2%	
28	400	23,500	FL	158	\$46.21	\$46.28	\$0.07	0.2%	
29	1,000	86,000	FL	374	\$82.88	\$82.88	\$0.01	0.0%	
30	175	8,800	PB	74	\$28.58	\$28.65	\$0.07	0.3%	
31	250	13,500	PB	102	\$33.56	\$33.63	\$0.07	0.2%	
32	400	23,500	PB	158	\$42.53	\$42.57	\$0.04	0.1%	
<u>Light Emitting Diode:</u>									
33	42	3,600	AL	15	\$15.12	\$15.19	\$0.07	0.5%	
34	57	5,200	AL	20	\$15.85	\$15.92	\$0.07	0.4%	
35	25	3,000	CH	9	\$14.25	\$14.33	\$0.08	0.5%	
36	88	8,300	CH	30	\$17.30	\$17.36	\$0.07	0.4%	
37	108	11,500	CH	37	\$18.31	\$18.37	\$0.06	0.3%	
38	193	21,000	CH	67	\$22.65	\$22.70	\$0.05	0.2%	
39	123	12,180	FL	43	\$19.18	\$19.23	\$0.06	0.3%	
40	194	25,700	FL	67	\$22.65	\$22.70	\$0.05	0.2%	
41	297	38,100	FL	103	\$27.85	\$27.88	\$0.03	0.1%	
<u>Luminaire Charges For Year Round Service:</u>									
Rates - Effective January 1, 2019		<u>Mercury Vapor Rate/Mo.</u>		<u>Sodium Vapor Rate/Mo.</u>		<u>Metal Halide Rate/Mo.</u>		<u>LED Rate/Mo.</u>	
Customer Charge	\$0.00	1	\$13.20	11	\$13.44	23	\$19.79	33	\$13.08
		2	\$15.66	12	\$15.13	24	\$21.52	34	\$13.13
Distribution Charge	All kWh \$0.00000	3	\$17.75	13	\$15.19	25	\$22.32	35	\$13.03
		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	\$0.00133	7	\$22.62	17	\$17.51	29	\$32.03	39	\$13.33
System Benefits Charge	\$0.00576	8	\$37.48	18	\$20.64	30	\$18.52	40	\$13.54
Default Service Charge	\$0.10598	9	\$13.33	19	\$23.45	31	\$19.69	41	\$13.85
		10	\$14.79	20	\$41.78	32	\$21.05		
TOTAL	\$0.13595			21	\$12.44				
				22	\$13.96				
Rates - Proposed May 1, 2019		<u>Mercury Vapor Rate/Mo.</u>		<u>Sodium Vapor Rate/Mo.</u>		<u>Metal Halide Rate/Mo.</u>		<u>LED Rate/Mo.</u>	
Customer Charge	\$0.00	1	\$13.28	11	\$13.52	23	\$19.91	33	\$13.16
		2	\$15.75	12	\$15.22	24	\$21.65	34	\$13.21
Distribution Charge	All kWh \$0.00000	3	\$17.85	13	\$15.28	25	\$22.45	35	\$13.11
		4	\$21.25	14	\$19.14	26	\$23.00	36	\$13.30
External Delivery Charge	\$0.02389	5	\$42.19	15	\$24.13	27	\$24.83	37	\$13.36
Stranded Cost Charge	(\$0.00101)	6	\$19.02	16	\$41.66	28	\$24.88	38	\$13.62
Storm Recovery Adj. Factor	\$0.00084	7	\$22.75	17	\$17.61	29	\$32.22	39	\$13.41
System Benefits Charge	\$0.00576	8	\$37.70	18	\$20.76	30	\$18.63	40	\$13.62
Default Service Charge	\$0.10598	9	\$13.41	19	\$23.58	31	\$19.81	41	\$13.93
		10	\$14.87	20	\$42.03	32	\$21.17		
TOTAL	\$0.13546			21	\$12.51				
				22	\$14.04				
Difference		<u>Mercury Vapor Rate/Mo.</u>		<u>Sodium Vapor Rate/Mo.</u>		<u>Metal Halide Rate/Mo.</u>		<u>LED Rate/Mo.</u>	
Customer Charge	\$0.00	1	\$0.08	11	\$0.08	23	\$0.12	33	\$0.08
		2	\$0.09	12	\$0.09	24	\$0.13	34	\$0.08
Distribution Charge	All kWh \$0.00000	3	\$0.10	13	\$0.09	25	\$0.13	35	\$0.08
		4	\$0.12	14	\$0.11	26	\$0.13	36	\$0.08
External Delivery Charge	\$0.00000	5	\$0.24	15	\$0.15	27	\$0.14	37	\$0.08
Stranded Cost Charge	\$0.00000	6	\$0.12	16	\$0.24	28	\$0.15	38	\$0.08
Storm Recovery Adj. Factor	(\$0.00049)	7	\$0.13	17	\$0.10	29	\$0.19	39	\$0.08
System Benefits Charge	\$0.00000	8	\$0.22	18	\$0.12	30	\$0.11	40	\$0.08
Default Service Charge	\$0.00000	9	\$0.08	19	\$0.13	31	\$0.12	41	\$0.08
		10	\$0.08	20	\$0.25	32	\$0.12		
TOTAL	(\$0.00049)			21	\$0.07				
				22	\$0.08				
* Luminaire charges based on All-Night Service option.									