

	<u>Large Customer Group</u>					
	<u>Aug</u> <u>-19</u>	<u>Sep-</u> <u>19</u>	<u>Oct-</u> <u>19</u>	<u>Nov</u> <u>-19</u>	<u>Dec</u> <u>-19</u>	<u>Jan-</u> <u>20</u>
Base	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1
ES	598	590	592	697	906	066
Rate	1	2	7	3	4	5
ES	(\$0.	(\$0.	(\$0.	(\$0.	(\$0.	(\$0.
AF	008	008	008	008	008	008
AF	22)	22)	22)	22)	22)	22)
ES	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
CR	026	026	026	026	026	026
AF	1	1	1	1	1	1
<u>RP</u>	<u>\$0.0</u>	<u>\$0.0</u>	<u>\$0.0</u>	<u>\$0.0</u>	<u>\$0.0</u>	<u>\$0.0</u>
<u>S</u>	<u>053</u>	<u>053</u>	<u>053</u>	<u>053</u>	<u>053</u>	<u>055</u>
	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>
Total	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.1
al	595	588	590	695	904	066
	9	0	5	1	2	3

D. Bill Impacts

As shown in Schedule DBS-7, for a residential customer taking Energy Service using 650 kWh per month, the total bill impact of the proposed rate in this filing, as compared to rates effective today, is a decrease of \$3.83 per month, or 3.22 percent, from \$119.05 to \$115.22 per month.

Large Customer Group
Rates G-1 and G-2
Illustrative Weighted Average Energy Service Rates For Comparison Purposes Only
August 2019 - January 2020

Section 1: Percentage of Medium and Large C&I kWhs Attributable to Energy Service

1	March 2019 Medium and Large C&I Energy Service kWhs	8,619,550
2	March 2019 Total Medium and Large C&I kWhs	<u>38,241,137</u>
3	Percentage of Medium and Large C&I Energy Service kWhs to Total Medium and Large C&I kWhs	22.54%

Section 2: Projected Medium and Large C&I Default Service kWhs, August 2019 - January 2020

	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>Total</u>	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	
4	Projected Total Company Medium and Large kWhs	52,106,802	46,419,495	44,374,979	41,321,235	42,252,483	43,139,480	269,614,475
5	Percentage of Medium and Large C&I Energy Service kWhs to Total Medium and Large C&I kWhs	<u>22.54%</u>	<u>22.54%</u>	<u>22.54%</u>	<u>22.54%</u>	<u>22.54%</u>	<u>22.54%</u>	
6	Projected Medium and Large C&I Energy Service kWhs	11,744,870	10,462,951	10,002,118	9,313,804	9,523,707	9,723,636	60,771,087

Section 3: Medium and Large C&I Default Service Load Weighting for August 2019 - January 2020

7	Projected Medium and Large C&I Energy Service kWhs	11,744,870	10,462,951	10,002,118	9,313,804	9,523,707	9,723,636	60,771,087
8	Loss Factor							
9	Wholesale Contract Price (\$/MWh)							
10	Base Energy Service Rate (\$/kWh)	\$0.05981	\$0.05902	\$0.05927	\$0.06973	\$0.09064	\$0.10665	
11	Energy Service Reconciliation Adjustment Factor (\$/kWh)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	
12	Energy Service Cost Reclassification Adjustment Factor (\$/kWh)	\$0.00261	\$0.00261	\$0.00261	\$0.00261	\$0.00261	\$0.00261	
13	<u>Renewable Portfolio Standard Adder (\$/kWh)</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	
14	Total Estimated Medium and Large C&I Energy Service Price per kWh	\$0.05959	\$0.05880	\$0.05905	\$0.06951	\$0.09042	\$0.10663	
15	Projected Medium and Large C&I Base Default Service Cost, August 2019 - January 2020	<u>\$ 702,461</u>	<u>\$ 617,523</u>	<u>\$ 592,826</u>	<u>\$ 649,452</u>	<u>\$ 863,229</u>	<u>\$1,037,026</u>	<u>\$ 4,462,516</u>
16	Weighted Average Medium and Large C&I Base Default Service Charge for August 2019 - January 2020							\$ 0.07343
17	Projected Medium and Large C&I Default Service Cost, August 2019 - January 2020	<u>\$ 699,877</u>	<u>\$ 615,222</u>	<u>\$ 590,625</u>	<u>\$ 647,403</u>	<u>\$ 861,134</u>	<u>\$1,036,831</u>	<u>\$ 4,451,091</u>
18	Weighted Average Medium and Large C&I Default Service Charge for August 2019 - January 2020							\$ 0.07324

- 1 Per Quarterly Migration Report
- 2 Per Quarterly Migration Report
- 3 Line (1) + Line (2)
- 4 Per Company forecast for medium and large C&I rates (Rates G-1 and G-2)
- 5 Line (3)
- 6 Line (4) x Line (5)
- 7 Line (6)
- 8 Schedule JDW-2 Exhibit 6
- 9 Schedule JDW-2 Exhibit 5
- 10 Line (8) x Line (9) / 1000, truncated to five decimal places
- 11 Schedule DBS-5 Page 1, Line 6
- 12 Schedule DBS-6 Page 1, Line 5
- 13 Schedule JDW-2 Exhibit 11
- 14 Line (10) + Line (11) + Line (12) + Line (13)
- 15 Line (7) x Line (10)
- 16 Line (15) total ÷ Line (7) total, truncated after 5 decimal places
- 17 Line (7) x Line (14)
- 18 Line (17) total ÷ Line (7) total, truncated after 5 decimal places

**Small Customer Group
(Rates D, D-10, G-3, M, T and V)
Based on Weighted Average Effective Energy Service Prices
August 2019 - January 2020**

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 19-059 Energy Service Reconciliation
Schedule JLU-2 Rates
Page 1 of 1

Section 1: Percentage of Residential and Small C&I kWhs Attributable to Energy Service	
1 March 2019 Residential and Small C&I Energy Service kWhs	30,977,893
2 March 2019 Total Residential and Small C&I kWhs	<u>35,345,405</u>
3 Percentage of Residential and Small C&I Energy Service kWhs to Total Residential & Small C&I kWhs	87.64%

Section 2: Projected Residential and Small C&I Default Service kWhs, August 2019 - January 2020

	August	September	October	November	December	January	Total
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
4 Projected Total Company Residential and Small C&I kWhs	35,289,249	29,294,843	28,072,072	29,590,252	35,888,286	38,656,000	196,790,702
5 Percentage of Residential and Small C&I Energy Service kWhs to Total Residential & Small C&I kWhs	<u>87.64%</u>	<u>87.64%</u>	<u>87.64%</u>	<u>87.64%</u>	<u>87.64%</u>	<u>87.64%</u>	
6 Projected Residential and Small C&I Energy Service kWhs	30,928,676	25,674,978	24,603,301	25,933,885	31,453,692	33,879,409	172,473,941

Section 3: Residential and Small C&I Default Service Load Weighting for August 2019 - January 2020

7 Projected Residential and Small C&I Energy Service kWhs	30,928,676	25,674,978	24,603,301	25,933,885	31,453,692	33,879,409	172,473,941
8 Loss Factor	[REDACTED]						
9 Wholesale Contract Price (\$/MWh)	[REDACTED]						
10 Base Residential and Small C&I Energy Service Rate (\$/kWh)	\$0.06370	\$0.06650	\$0.06632	\$0.07264	\$0.08880	\$0.10551	
11 Energy Service Reconciliation Adjustment Factor (\$/kWh)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	(\$0.00822)	
12 Energy Service Cost Reclassification Adjustment Factor (\$/kWh)	\$0.00127	\$0.00127	\$0.00127	\$0.00127	\$0.00127	\$0.00127	
13 Proposed Renewable Portfolio Standard Adder (\$/kWh)	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00539</u>	<u>\$0.00559</u>	
14 Total Estimated Residential and Small C&I Energy Service Price per kWh	\$0.06214	\$0.06494	\$0.06476	\$0.07108	\$0.08724	\$0.10415	
15 Projected Residential and Small C&I Energy Service Base Cost, August 2019 - January 2020	<u>\$1,970,157</u>	<u>\$1,707,386</u>	<u>\$1,631,691</u>	<u>\$1,883,837</u>	<u>\$2,793,088</u>	<u>\$3,574,616</u>	<u>\$13,560,775</u>
16 Weighted Average Base Residential and Small C&I Energy Service Charge for August 2019 - January 2020							\$0.07862
17 Projected Residential and Small C&I Energy Service Cost, August 2019 - January 2020	<u>\$1,921,908</u>	<u>\$1,667,333</u>	<u>\$1,593,310</u>	<u>\$1,843,381</u>	<u>\$2,744,020</u>	<u>\$3,528,540</u>	<u>\$13,298,492</u>
18 Weighted Average Residential and Small C&I Energy Service Charge for August 2019 - January 2020							\$0.07710

- 1 Per Quarterly Migration Report
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- 17 Line (7) x Line (14)
- 18 Line (17) total ÷ Line (7) total, truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a L berty Utilities
Base Energy Service Reconciliation
August 2018 - July 2019

Month	(Over)/Under Beginning Balance (a)	Base Energy Service Revenue (b)	Base Energy Service Expense (c)	Monthly (Over)/Under (d)	(Over)/Under Ending Balance (e)	Balance Subject to Interest (f)	Effective Interest Rate (g)	Interest (h)	Cumulative Interest (i)
[1]	\$ (650,150)								
[2]	\$ 650,150								
[3] Aug-18	\$ -	\$ 3,860,759	\$ 3,120,242	\$ (740,517)	\$ (740,517)	\$ (370,258)	5.00%	\$ (1,543)	\$ (1,543)
[4] Sep-18	\$ (742,060)	\$ 3,014,622	\$ 2,647,937	\$ (366,685)	\$ (1,108,744)	\$ (925,402)	5.00%	\$ (3,856)	\$ (5,399)
[5] Oct-18	\$ (1,112,600)	\$ 2,990,175	\$ 2,734,989	\$ (255,186)	\$ (1,367,786)	\$ (1,240,193)	5.25%	\$ (5,426)	\$ (10,824)
[6] Nov-18	\$ (1,373,212)	\$ 3,014,682	\$ 3,014,866	\$ 184	\$ (1,373,028)	\$ (1,373,120)	5.25%	\$ (6,007)	\$ (16,832)
[7] Dec-18	\$ (1,379,035)	\$ 3,993,254	\$ 4,025,825	\$ 32,570	\$ (1,346,465)	\$ (1,362,750)	5.25%	\$ (5,962)	\$ (22,794)
[8] Jan-19	\$ (1,352,427)	\$ 4,648,811	\$ 5,386,912	\$ 738,102	\$ (614,325)	\$ (983,376)	5.50%	\$ (4,507)	\$ (27,301)
[9] Feb-19	\$ (618,832)	\$ 3,249,475	\$ 5,184,955	\$ 1,935,480	\$ 1,316,648	\$ 348,908	5.50%	\$ 1,599	\$ (25,702)
[10] Mar-19	\$ 1,318,247	\$ 3,383,220	\$ 3,890,845	\$ 507,624	\$ 1,825,871	\$ 1,572,059	5.50%	\$ 7,205	\$ (18,497)
[11] Apr-19	\$ 1,833,076	\$ 2,750,459	\$ 2,762,641	\$ 12,182	\$ 1,845,259	\$ 1,839,168	5.50%	\$ 8,430	\$ (10,067)
[12] May-19	\$ 1,853,688	\$ 2,716,548	\$ 3,948,484	\$ 1,231,937	\$ 3,085,625	\$ 2,469,657	5.50%	\$ 11,319	\$ 1,252
[13]* Jun-19	\$ 3,096,944	\$ 3,175,823	\$ 1,809,336	\$ (1,366,487)	\$ 1,730,457	\$ 2,413,701	5.50%	\$ 11,063	\$ 12,315
[14]* Jul-19	\$ 1,741,520	\$ 3,859,837	\$ 3,206,504	\$ (653,333)	\$ 1,088,187	\$ 1,414,854	5.50%	\$ 6,485	\$ 18,800
		\$ 40,657,664	\$ 41,733,536						

Cumulative (Over)/Under Collection of Base Energy Service: \$ 1,094,672

[1] Estimated July 2018 balance in DE 18-041 dated June 18, 2018, Bates 129

[2] Adjustment to zero out the Base Energy beginning balance. Adjustment to agree with reconciled accounting records as of July 31, 2018 is included in DBS-5 and DBS-6.

(a) Prior Month Column (e) + Prior Month Column (h)

(b) Monthly Revenue calculated on DBS-3 P2

(c) Monthly Expenses calculated on DBS-3 P3

(d) Column (c) - Column (b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] + 2

(g) Interest rate on Customer Deposits

(h) Column (f) x Column (g) / 12

(i) Column (h) + Prior Month Column (i)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 19-059 Energy Service Reconciliation
Schedule DBS-3 Base ES Reconciliation
Page 2 of 3

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Revenue
August 2018 - July 2019

Month	Energy Service Revenue (a)	Renewable Portfolio Standard Revenue (b)	Energy Service Adjustment Revenue (c)	Energy Service Cost Reclass. Adjustment Factor (d)	Base Energy Service Revenue (e)
[1] Aug-18	\$ 3,576,286	\$ 200,040	\$ (419,997)	\$ (64,515)	\$ 3,860,759
[2] Sep-18	\$ 2,748,891	\$ 186,214	\$ (390,969)	\$ (60,976)	\$ 3,014,622
[3] Oct-18	\$ 2,783,046	\$ 144,527	\$ (303,445)	\$ (48,212)	\$ 2,990,175
[4] Nov-18	\$ 2,806,473	\$ 145,964	\$ (306,461)	\$ (47,712)	\$ 3,014,682
[5] Dec-18	\$ 3,728,314	\$ 186,295	\$ (391,140)	\$ (60,096)	\$ 3,993,254
[6] Jan-19	\$ 4,413,168	\$ 233,973	\$ (407,457)	\$ (62,158)	\$ 4,648,811
[7] Feb-19	\$ 2,914,119	\$ 117,392	\$ (392,656)	\$ (60,091)	\$ 3,249,475
[8] Mar-19	\$ 3,059,323	\$ 113,269	\$ (378,866)	\$ (58,301)	\$ 3,383,220
[9] Apr-19	\$ 2,485,666	\$ 92,848	\$ (310,562)	\$ (47,080)	\$ 2,750,459
[10] May-19	\$ 2,452,931	\$ 91,881	\$ (307,325)	\$ (48,173)	\$ 2,716,548
[11]* Jun-19	\$ 2,857,699	\$ 110,609	\$ (369,969)	\$ (58,764)	\$ 3,175,823
[12]* Jul-19	\$ 3,482,064	\$ 131,575	\$ (440,097)	\$ (69,251)	\$ 3,859,837
Total	\$ 37,307,980	\$ 1,754,588	\$ (4,418,943)	\$ (685,329)	\$ 40,657,664

- (a) Adjustment to agree with reconciled accounting records
 - (b) Actual kWh sales multiplied by approved RPS Adder
 - (c) Actual kWh sales multiplied by approved Energy Service Adjustment Factor
 - (d) Actual kWh sales multiplied by the Energy Service Cost Reclassification Adjustment Factor approved
 - (e) Column (a) - Column (b) - Column (c) - Column (d) - Column (e)
- * Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 19-059 Energy Service Reconciliation
Schedule DBS-3 Base ES Reconciliation
Page 3 of 3

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Expense Calculation
August 2018 - July 2019

		<u>Energy Service</u> <u>Expense</u> <u>(a)</u>	<u>RPS</u> <u>Expense</u> <u>(b)</u>	<u>Base Energy</u> <u>Service Expense</u> <u>(c)</u>
[1]	Aug-18	\$ 3,132,905	\$ 12,663	\$ 3,120,242
[2]	Sep-18	\$ 2,647,937	\$ -	\$ 2,647,937
[3]	Oct-18	\$ 3,042,581	\$ 307,591	\$ 2,734,989
[4]	Nov-18	\$ 3,264,586	\$ 249,721	\$ 3,014,866
[5]	Dec-18	\$ 4,025,825	\$ -	\$ 4,025,825
[6]	Jan-19	\$ 5,561,288	\$ 174,376	\$ 5,386,912
[7]	Feb-19	\$ 5,184,955	\$ -	\$ 5,184,955
[8]	Mar-19	\$ 3,897,407	\$ 6,563	\$ 3,890,845
[9]	Apr-19	\$ 2,762,641	\$ -	\$ 2,762,641
[10]	May-19	\$ 3,959,959	\$ 11,475	\$ 3,948,484
[11]*	Jun-19	\$ 2,502,891	\$ 693,555	\$ 1,809,336
[12]*	Jul-19	\$ 3,206,504	\$ -	\$ 3,206,504
	Total	\$ 43,189,479	\$ 1,455,943	\$ 41,733,536

(a) Adjustment to agree with reconciled accounting records

(b) Adjustment to agree with reconciled accounting records

(c) Column (a) - Column (b)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Renewable Portfolio Standard Reconciliation
2018 Program Year

	Month	Beginning Balance (a)	Revenue (b)	Expense (c)	Monthly (Over)/Under (d)	Ending Balance (e)	Balance Subject to Interest (f)	Interest Rate (g)	Interest (h)	Cumulative Interest (i)
[1]		\$ (34,546)								
[2]		\$ 34,546								
[3]	Jul-18	\$ -	\$ 180,968	\$ 297,919	\$ 116,951	\$ 116,951	\$ 58,475	5.00%	\$ 244	\$ 244
[4]	Aug-18	\$ 117,195	\$ 200,040	\$ 12,663	\$ (187,377)	\$ (70,182)	\$ 23,506	5.00%	\$ 98	\$ 342
[5]	Sep-18	\$ (70,084)	\$ 186,214	\$ -	\$ (186,214)	\$ (256,298)	\$ (163,191)	5.00%	\$ (680)	\$ (338)
[6]	Oct-18	\$ (256,978)	\$ 144,527	\$ 307,591	\$ 163,064	\$ (93,915)	\$ (175,446)	5.25%	\$ (768)	\$ (1,106)
[7]	Nov-18	\$ (94,682)	\$ 145,964	\$ 249,721	\$ 103,757	\$ 9,075	\$ (42,804)	5.25%	\$ (187)	\$ (1,293)
[8]	Dec-18	\$ 8,888	\$ 186,295	\$ -	\$ (186,295)	\$ (177,408)	\$ (84,260)	5.25%	\$ (369)	\$ (1,662)
[9]	Jan-19	\$ (177,777)	\$ 233,973	\$ 174,376	\$ (59,597)	\$ (237,374)	\$ (207,575)	5.50%	\$ (951)	\$ (2,613)
[10]	Feb-19	\$ (238,325)	\$ 117,392	\$ -	\$ (117,392)	\$ (355,717)	\$ (297,021)	5.50%	\$ (1,361)	\$ (3,975)
[11]	Mar-19	\$ (357,078)	\$ 113,269	\$ 6,563	\$ (106,707)	\$ (463,785)	\$ (410,432)	5.50%	\$ (1,881)	\$ (5,856)
[12]	Apr-19	\$ (465,666)	\$ 92,848	\$ -	\$ (92,848)	\$ (558,515)	\$ (512,090)	5.50%	\$ (2,347)	\$ (8,203)
[13]	May-19	\$ (560,862)	\$ 91,881	\$ 11,475	\$ (80,406)	\$ (641,267)	\$ (601,064)	5.50%	\$ (2,755)	\$ (10,958)
[14]*	Jun-19	\$ (644,022)	\$ 110,609	\$ 693,555	\$ 582,945	\$ (61,077)	\$ (352,549)	5.50%	\$ (1,616)	\$ (12,574)

\$ 1,803,981 \$ 1,753,862

Cumulative (Over)/Under Collection of RPS Compliance Costs \$ (62,693)

[1] Estimated July 2018 balance in DE 18-041 dated June 18, 2018, Bates 132

[2] Adjustment to zero out the Base Energy beginning balance. Adjustment to agree with reconciled accounting records as of July 31, 2018 is included in DBS-5 and DBS-6.

(a) Prior Month Column (e) + Prior Month Column (h)

(b) Actual kWh sales multiplied by the RPS adder

(c) Actual Monthly REC expenses

(d) Column (c) - Column (b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] ÷ 2

(g) Interest Rate on Customer Deposits

(h) Column (f) x Column (g) / 12

(i) Column (h) + Prior Month Column (i)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Calculation of Energy Service Adjustment Factor
Effective August 1, 2019

[1] Base Energy Service (Over)/Under Collection	\$	1,094,672
[2] Energy Service Adjustment Factor (Over)/Under Collection	\$	(4,982,792)
[3] RPS (Over)/Under Collection	\$	(62,693)
[4] Total (Over)/Under Collection	\$	(3,950,813)
[5] Estimated Energy Service kWh Deliveries		480,169,454
[6] Energy Service Adjustment Factor per kWh	\$	(0.00822)

- [1] Schedule DBS-3, Page 1
- [2] Schedule DBS-5 Page 2
- [3] Schedule DBS-4
- [4] Sum of Lines 1 - 3
- [5] Per Company forecast August 2019 - July 2020
- [6] Line (4) ÷ Line (5), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Reconciliation of Energy Service Adjustment Factor (Over)/Under
Balance Incurred August 2018 - July 2019

Month	Beginning (Over)/Under Balance (a)	Energy Service Adjustment Revenue (b)	Ending (Over)/Under Balance (c)	Balance Subject to Interest (d)	Effective Interest Rate (e)	Interest (f)	Cumulative Interest (g)
[1]	\$ (4,385,505)						
[2]	\$ (4,643,046)						
[3] Aug-18	\$ (9,028,551)	\$ (419,997)	\$ (8,608,554)	\$ (8,818,552)	5.00%	\$ (36,744)	\$ (36,744)
[4] Sep-18	\$ (8,645,298)	\$ (390,969)	\$ (8,254,329)	\$ (8,449,813)	5.00%	\$ (35,208)	\$ (71,952)
[5] Oct-18	\$ (8,289,536)	\$ (303,445)	\$ (7,986,091)	\$ (8,137,814)	5.25%	\$ (35,603)	\$ (107,554)
[6] Nov-18	\$ (8,021,694)	\$ (306,461)	\$ (7,715,233)	\$ (7,868,464)	5.25%	\$ (34,425)	\$ (141,979)
[7] Dec-18	\$ (7,749,658)	\$ (391,140)	\$ (7,358,518)	\$ (7,554,088)	5.25%	\$ (33,049)	\$ (175,028)
[8] Jan-19	\$ (7,391,567)	\$ (407,457)	\$ (6,984,110)	\$ (7,187,839)	5.50%	\$ (32,944)	\$ (207,972)
[9] Feb-19	\$ (7,017,054)	\$ (392,656)	\$ (6,624,398)	\$ (6,820,726)	5.50%	\$ (31,262)	\$ (239,234)
[10] Mar-19	\$ (6,655,660)	\$ (378,866)	\$ (6,276,794)	\$ (6,466,227)	5.50%	\$ (29,637)	\$ (268,871)
[11] Apr-19	\$ (6,306,431)	\$ (310,562)	\$ (5,995,869)	\$ (6,151,150)	5.50%	\$ (28,193)	\$ (297,064)
[12] May-19	\$ (6,024,062)	\$ (307,325)	\$ (5,716,737)	\$ (5,870,399)	5.50%	\$ (26,906)	\$ (323,970)
[13]* Jun-19	\$ (5,743,643)	\$ (369,969)	\$ (5,373,674)	\$ (5,558,659)	5.50%	\$ (25,477)	\$ (349,447)
[14]* Jul-19	\$ (5,399,152)	\$ (440,097)	\$ (4,959,055)	\$ (5,179,103)	5.50%	\$ (23,738)	\$ (373,184)

\$ (4,418,943)

Total (Over)/Under Collection: \$ (4,982,792)

- [1] Estimated July 2018 balance in DE 18-041 dated June 18, 2018, (Line 6 on Bates 133)
- [2] Adjustment to agree with reconciled accounting records as of July 31, 2018
- (a) Prior month Column (c) + Prior month Column (f)
- (b) Actual kWh sales multiplied by the approved Energy Service Adjustment Factor
- (c) Column (a) - Column (b)
- (d) [Column (a) + Column (c)] ÷ 2
- (e) Interest rate on Customer Deposits
- (f) Column (d) x Column (e) / 12
- (g) Column (f) + Prior Month Column (g)
- * Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
 Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
 Effective August 1, 2019

	<u>Total</u>	<u>Residential and Small C&I</u>	<u>Medium and Large C&I</u>
[1] Total Forecast of 2019 Costs	\$ 411,309	\$ 236,905	\$ 174,405
[2] Undercollection Related to ESCRAF	\$ 369,071	\$ 212,577	\$ 156,495
[3] Net Estimated Commodity Related Costs	\$ 780,381	\$ 449,481	\$ 330,899
[4] Estimated Forecast Energy Service kWh Deliveries	<u>480,169,454</u>	<u>353,579,265</u>	<u>126,590,189</u>
[5] 2018 ESCRAF per kWh	\$ 0.00162	\$ 0.00127	\$ 0.00261

- (1) Forecast of costs using previous period; Schedule DBS-6, Page 3, Line 4
- (2) Schedule DBS-6, Page 2
- (3) Line (1) + Line (2)
- (4) Per Company forecast
- (5) Line (3) ÷ Line (4), truncated after 5 decimal places

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
 Energy Service Cost Reclassification Adjustment Factor (ESCRAF) Reconciliation
 August 2018 - July 2019

Month	Beginning Balance (a)	Revenue (b)	Expense (c)	Monthly (Over)/Under (d)	Ending Balance (e)	Balance Subject to Interest (f)	Interest Rate (g)	Interest (h)	Cumulative Interest (i)	
[1]	\$ (701,081)									
[2]	\$ -									
[3]	Aug-18	\$ (701,081)	\$ (64,515)	\$ 26,630	\$ 91,145	\$ (609,936)	\$ (655,508)	5.00%	\$ (2,731)	\$ (2,731)
[4]	Sep-18	\$ (612,667)	\$ (60,976)	\$ 24,695	\$ 85,671	\$ (526,996)	\$ (569,832)	5.00%	\$ (2,374)	\$ (5,106)
[5]	Oct-18	\$ (529,371)	\$ (48,212)	\$ 26,753	\$ 74,965	\$ (454,406)	\$ (491,888)	5.25%	\$ (2,152)	\$ (7,258)
[6]	Nov-18	\$ (456,558)	\$ (47,712)	\$ 29,659	\$ 77,371	\$ (379,187)	\$ (417,872)	5.25%	\$ (1,828)	\$ (9,086)
[7]	Dec-18	\$ (381,015)	\$ (60,096)	\$ 41,545	\$ 101,641	\$ (279,374)	\$ (330,195)	5.25%	\$ (1,445)	\$ (10,530)
[8]	Jan-19	\$ (280,819)	\$ (62,158)	\$ 42,972	\$ 105,130	\$ (175,689)	\$ (228,254)	5.50%	\$ (1,046)	\$ (11,577)
[9]	Feb-19	\$ (176,735)	\$ (60,091)	\$ 38,790	\$ 98,882	\$ (77,853)	\$ (127,294)	5.50%	\$ (583)	\$ (12,160)
[10]	Mar-19	\$ (78,436)	\$ (58,301)	\$ 31,344	\$ 89,645	\$ 11,208	\$ (33,614)	5.50%	\$ (154)	\$ (12,314)
[11]	Apr-19	\$ 11,054	\$ (47,080)	\$ 28,068	\$ 75,148	\$ 86,202	\$ 48,628	5.50%	\$ 223	\$ (12,091)
[12]	May-19	\$ 86,425	\$ (48,173)	\$ 36,802	\$ 84,975	\$ 171,399	\$ 128,912	5.50%	\$ 591	\$ (11,500)
[13]*	Jun-19	\$ 171,990	\$ (58,764)	\$ 32,861	\$ 91,625	\$ 263,615	\$ 217,803	5.50%	\$ 998	\$ (10,502)
[14]*	Jul-19	\$ 264,613	\$ (69,251)	\$ 33,758	\$ 103,010	\$ 367,623	\$ 316,118	5.50%	\$ 1,449	\$ (9,053)

\$ (685,329) \$ 393,876

Cumulative (Over)/Under Collection of Energy Service Cost Reclassification Adjustment Provision: \$ 369,071

[1] Estimated July 2018 balance in DE 18-041 dated June 18, 2018, Bates 135 Line 3

(a) Prior Month Column (e) + Prior Month Column (h)

(b) Actual kWh sales multiplied by approved ESCRAF

(c) DBS-6 Page 4 Column (d)

(d) Column (c) - Column (b)

(e) Column (a) + Column (d)

(f) [Column (a) + Column (e)] + 2

(g) Interest Rate on Customer Deposits

(h) Column (f) x Column (g) / 12

(i) Column (h) + Prior Month Column (i)

* Projection

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
 Energy Service Cost Reclassification Adjustment Factor (ESCRAF)
 Expense Summary August 2018 - July 2019

	<u>Total</u>	<u>Residential and Small C&I</u>	<u>Medium and Large C&I</u>
<u>Wholesale Costs:</u>			
[1] Procurement and Ongoing Administration Costs	\$41,456	\$20,728	\$20,728
<u>Direct Retail:</u>			
[2] Bad Debt Expense	<u>\$224,572</u>	<u>\$131,261</u>	<u>\$93,312</u>
<u>Cash Working Capital:</u>			
[3] Working Capital Impact	<u>\$145,281</u>	<u>\$84,916</u>	<u>\$60,365</u>
[4] Total Estimated Commodity Related Costs	\$411,309	\$236,905	\$174,405

- (1) Schedule DBS-6 Page 4 Column (a), allocated evenly
- (2) Bad debt calculation August 2018 - July 2019. Allocated to customer group based on method agreed to in the settlement in Docket DE 05-126.
- (3) Schedule DBS-6 Page 4 Column (c), allocated to customer group based on DR 95-169 allocation.
- (4) Line (1) + Line (2) + Line (3)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
DE 19-059 Energy Service Reconciliation
Schedule DBS-6 ES Cost Reclassification Adj Factor
Page 4 of 8

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
August 2018 - July 2019

		Payroll and Other Admin Expenses (a)	Bad Debt Expense (b)	Cash Working Capital Expense (c)	Total Expense (d)
[1]	Aug-18	\$2,660	\$13,316	\$10,654	\$26,630
[2]	Sep-18	\$113	\$13,927	\$10,654	\$24,695
[3]	Oct-18	\$226	\$15,873	\$10,654	\$26,753
[4]	Nov-18	\$2,671	\$16,335	\$10,654	\$29,659
[5]	Dec-18	\$11,131	\$19,760	\$10,654	\$41,545
[6]	Jan-19	\$4,705	\$27,614	\$10,654	\$42,972
[7]	Feb-19	\$927	\$27,209	\$10,654	\$38,790
[8]	Mar-19	\$925	\$19,765	\$10,654	\$31,344
[9]	Apr-19	\$3,583	\$13,831	\$10,654	\$28,068
[10]	May-19	\$7,166	\$18,981	\$10,654	\$36,802
[11]*	Jun-19	\$3,225	\$18,981	\$10,654	\$32,861
[12]*	Jul-19	\$4,123	\$18,981	\$10,654	\$33,758
	Total	\$41,456	\$224,572	\$127,848	\$393,876

(a) Per general ledger

(b) Actual bad debt calculation for period

(c) Approved cash working capital in DE 18-041, Bates 139 Line 7 ÷ 12

(d) Column (a) + Column (b) + Column (c)

* Projection based on previous period's costs

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses
Working Capital Summary

	<u>Days of Cost</u> (a)	<u>Annual Percent</u> (b)	<u>Customer Payment Lag %</u> (c)	<u>CWC %</u> (d)	<u>Expense</u> (e)	<u>Working Capital Requirement</u> (f)
[1] 2018 Purchase Power Costs	(37.227)	-10.20%	16.68%	6.48%	\$ 36,553,274	\$ 2,368,652
[2] Renewable Portfolio Standard	(228.434)	-62.58%	16.68%	-45.90%	\$ 1,803,981	<u>\$ (828,027)</u>
[3] Working Capital Requirement						\$ 1,540,625
[4] Capital Structure Post-tax						7.69%
[5] Working Capital Impact						<u>\$ 118,474</u>
[6] Capital Structure Pre-tax						<u>9.43%</u>
[7] Working Capital Impact						\$ 145,281

Columns:

- [1](a) Schedule DBS-6 Page 6
- (b) Column (a) ÷ 365
- (c) Schedule DBS-6 Page 8
- (d) Column (b) + Column (c)
- (e) Schedule DBS-6 Page 6
- [2](a) Schedule DBS-6 Page 7
- (b) Column (a) ÷ 365
- (c) Schedule DBS-6 Page 8
- (d) Column (b) + Column (c)
- (e) Schedule DBS-6 Page 7
- (f) Column (d) x Column (e)

Lines:

- [3] Line 1(f) + Line 2(f)
- [4] Docket No. DE 19-051
- [5] Line (3) x Line (4)
- [6] Docket No. DE 19-051
- [7] Line (3) x Line (6)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Energy Service Cost Reclassification Adjustment Factor Expenses

Invoice Month (a)	Expense Description (b)	Invoice Amount (c)	Mid-Point Service		Payment Date (g)	Elapsed Days (h)	% of Total (i)	Weighted Days (j)	
			Period (d)	Invoice Date (e)					Due Date (f)
January 2018	Current Charge for January 2018	\$ 1,068,762.12	1/16/2018	2/7/2018	2/20/2018	2/20/2018	35	2.92%	1.02
January 2018	Supplier Reallocation	\$ (17,390.95)	1/16/2018	2/7/2018	2/20/2018	2/20/2018	35	-0.05%	(0.02)
January 2018	Current Charge for January 2018	\$ 3,676,356.37	1/16/2018	2/7/2018	2/20/2018	2/27/2018	42	10.06%	4.22
January 2018	Supplier Reallocation	\$ (25,073.11)	1/16/2018	2/7/2018	2/20/2018	2/27/2018	42	0.00%	0.00
February 2018	Current Charge for February 2018	\$ 1,004,308.06	2/15/2018	3/12/2018	3/23/2018	3/23/2018	36	2.75%	0.99
February 2018	Supplier Reallocation	\$ (9,498.45)	2/15/2018	3/15/2018	3/25/2018	3/20/2018	33	-0.03%	(0.01)
February 2018	Current Charge for February 2018	\$ 2,895,253.85	2/15/2018	3/13/2018	3/20/2018	3/20/2018	33	7.92%	2.61
February 2018	Supplier Reallocation	\$ (66,832.74)	2/15/2018	3/15/2018	3/25/2018	3/20/2018	33	0.00%	0.00
March 2018	Current Charge for March 2018	\$ 2,133,259.20	3/16/2018	4/9/2018	4/20/2018	4/19/2018	34	5.84%	1.98
March 2018	Supplier Reallocation	\$ 51,037.72	3/16/2018	4/9/2018	4/20/2018	4/19/2018	34	0.14%	0.05
March 2018	Current Charge for March 2018	\$ 863,176.93	3/16/2018	4/10/2018	4/20/2018	4/19/2018	34	2.36%	0.80
March 2018	Supplier Reallocation	\$ (31,111.26)	3/16/2018	4/11/2018	4/21/2018	4/20/2018	35	-0.09%	(0.03)
April 2018	Current Charge for April 2018	\$ 1,620,470.68	4/15/2018	5/7/2018	5/21/2018	5/21/2018	36	4.43%	1.60
April 2018	Supplier Reallocation	\$ 46,639.47	4/15/2018	5/8/2018	5/18/2018	5/17/2018	32	0.00%	0.00
April 2018	Current Charge for April 2018	\$ 669,211.01	4/15/2018	5/10/2018	5/21/2018	6/13/2018	59	1.83%	1.08
April 2018	Supplier Reallocation	\$ (18,980.56)	4/15/2018	5/9/2018	5/19/2018	5/18/2018	33	-0.05%	(0.02)
May 2018	Current Charge for May 2018	\$ 1,413,030.61	5/16/2018	6/7/2018	6/20/2018	6/20/2018	35	3.87%	1.35
May 2018	Supplier Reallocation	\$ (14,058.94)	5/16/2018	6/11/2018	6/21/2018	6/20/2018	35	-0.04%	(0.01)
May 2018	Current Charge for May 2018	\$ 686,970.28	5/16/2018	7/10/2018	7/17/2018	7/17/2018	62	1.88%	1.17
May 2018	Supplier Reallocation	\$ (78,439.37)	5/16/2018	6/11/2018	6/21/2018	6/20/2018	35	-0.21%	(0.08)
June 2018	Current Charge for June 2018	\$ 1,629,525.71	6/15/2018	7/9/2018	7/20/2018	7/20/2018	35	4.46%	1.56
June 2018	Supplier Reallocation	\$ (136,080.16)	6/15/2018	7/9/2018	7/20/2018	7/20/2018	35	0.00%	0.00
June 2018	Current Charge for June 2018	\$ 668,418.59	6/15/2018	7/13/2018	7/20/2018	7/20/2018	35	1.83%	0.64
June 2018	Supplier Reallocation	\$ 24,973.90	6/15/2018	7/13/2018	7/20/2018	7/20/2018	35	0.07%	0.02
July 2018	Current Charge for July 2018	\$ 2,171,681.70	7/16/2018	8/8/2018	8/20/2018	8/20/2018	35	5.94%	2.08
July 2018	Supplier Reallocation for March 2018	\$ (21,477.71)	7/16/2018	8/8/2018	8/20/2018	8/20/2018	35	-0.06%	(0.02)
July 2018	Current Charge for July 2018	\$ 760,622.96	7/16/2018	8/13/2018	8/24/2018	8/24/2018	39	2.08%	0.81
July 2018	Supplier Reallocation for March 2018	\$ (7,037.56)	7/16/2018	8/13/2018	8/24/2018	8/24/2018	39	-0.02%	(0.01)
August 2018	Current Charge for August 2018	\$ 2,405,725.37	8/16/2018	9/10/2018	9/20/2018	9/20/2018	35	6.58%	2.30
August 2018	Supplier Reallocation	\$ (27,806.19)	8/16/2018	9/12/2018	9/22/2018	9/20/2018	35	-0.08%	(0.03)
August 2018	Current Charge for August 2018	\$ 726,183.41	8/16/2018	9/10/2018	9/20/2018	9/20/2018	35	1.99%	0.70
September 2018	Current Charge for September 2018	\$ 2,016,868.19	9/15/2018	10/10/2018	10/22/2018	10/22/2018	37	5.52%	2.04
September 2018	Supplier Reallocation	\$ 33,487.19	9/15/2018	10/9/2018	10/19/2018	10/18/2018	33	0.09%	0.03
September 2018	Current Charge for September 2018	\$ 665,230.81	9/15/2018	10/10/2018	10/22/2018	10/22/2018	37	1.82%	0.67
September 2018	Supplier Reallocation	\$ (1,423.95)	9/15/2018	10/3/2018	10/13/2018	11/13/2018	59	0.00%	(0.00)
September 2018	Supplier Reallocation	\$ (32,335.56)	9/15/2018	10/23/2018	11/2/2018	11/1/2018	47	-0.09%	(0.04)
October 2018	Current Charge for October 2018	\$ 2,087,127.99	10/16/2018	11/10/2018	11/20/2018	11/20/2018	35	5.71%	2.00
October 2018	Supplier Reallocation	\$ 84,620.87	10/16/2018	11/6/2018	11/20/2018	11/20/2018	35	0.00%	0.00
October 2018	Current Charge for October 2018	\$ 697,476.58	10/16/2018	11/10/2018	11/20/2018	11/20/2018	35	1.91%	0.67
November 2018	Current Charge for November 2018	\$ 2,192,114.54	11/15/2018	12/10/2018	12/20/2018	12/19/2018	34	6.00%	2.04
November 2018	Supplier Reallocation	\$ 69,802.77	11/15/2018	12/10/2018	12/20/2018	12/19/2018	34	0.19%	0.06
November 2018	Current Charge for November 2018	\$ 737,046.46	11/15/2018	12/17/2018	12/31/2018	1/8/2019	54	2.02%	1.09
December 2018	Current Charge for December 2018	\$ 2,996,838.44	12/16/2018	1/9/2019	1/22/2019	1/22/2019	37	8.20%	3.03
December 2018	Supplier Reallocation	\$ 23,151.91	12/16/2018	1/9/2019	1/22/2019	1/22/2019	37	0.06%	0.02
December 2018	Current Charge for December 2018	\$ 921,446.75	12/16/2018	1/14/2019	1/22/2019	1/18/2019	33	2.52%	0.83
[1] Total		\$ 36,553,273.93					Days		37.23

Columns:

- (a) Month in which obligation for payment occurred
- (b) Per invoices
- (c) Per invoices
- (d) Midpoint of applicable service period
- (e) Per invoices
- (f) Per agreements
- (g) Date paid
- (h) Number of days between Column (d) and Column (g)
- (i) Column (c) + Line (1)
- (j) Column (h) x Column (i)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
 DE 19-059 Energy Service Reconciliation
 Schedule DBS-6 ES Cost Reclassification Adj Factor
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Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
 RPS Obligation Program Year 2018

<u>Invoice Month</u> (a)	<u>Obligation Amount</u> (b)	<u>Mid-Point of Service Period</u> (c)	<u>Due Date</u> (d)	<u>Elapsed (Days)</u> (e)	<u>% of Total</u> (f)	<u>Weighted Days</u> (g)
Jul-18	\$ 180,968	7/16/2018	3/31/2019	258	10.03%	25.88
Aug-18	\$ 200,040	8/16/2018	3/31/2019	227	11.09%	25.17
Sep-18	\$ 186,214	9/15/2018	3/31/2019	197	10.32%	20.34
Oct-18	\$ 144,527	10/16/2018	6/30/2019	257	8.01%	20.59
Nov-18	\$ 145,964	11/15/2018	6/30/2019	227	8.09%	18.37
Dec-18	\$ 186,295	12/16/2018	6/30/2019	196	10.33%	20.24
Jan-19	\$ 233,973	1/16/2019	9/30/2019	257	12.97%	33.33
Feb-19	\$ 117,392	2/14/2019	9/30/2019	228	6.51%	14.84
Mar-19	\$ 113,269	3/16/2019	9/30/2019	198	6.28%	12.43
Apr-19	\$ 92,848	4/15/2019	12/31/2019	260	5.15%	13.38
May-19	\$ 91,881	5/16/2019	12/31/2019	229	5.09%	11.66
Jun-19	\$ 110,609	6/15/2019	12/31/2019	199	6.13%	12.20
[1] Total	\$ 1,803,981				[2] Days	228.43

Columns:

- (a) Month in which obligation occurred
- (b) Obligation based on kWh sales multiplied by the approved RPS rates for period
- (c) Midpoint of Service Period
- (d) Date of Obligation for Payment
- (e.) Number of days between Column (c) and Column (d)
- (f) Column (b) / Line 1
- (g) Column (c) multiplied by Column (e.)

Lines:

- (1) Sum of Column (b)
- (2) Sum of Column (g)

Liberty Utilities (Granite State Electric) Corp. d/b/a Liberty Utilities
Revenue Lead/Lag Applied to Energy Service

<u>Service Period</u>		Monthly Customer <u>Accts.Receivable</u> (a)	Monthly <u>Sales</u> (b)	Days <u>In Month</u> (c)	Average <u>Daily Revenues</u> (d)
1/1/2018	1/31/2018	\$ 12,464,067	\$ 9,336,310	31	\$ 301,171
2/1/2018	2/28/2018	\$ 12,094,179	\$ 8,339,213	28	\$ 297,829
3/1/2018	3/31/2018	\$ 11,587,778	\$ 8,030,574	31	\$ 259,051
4/1/2018	4/30/2018	\$ 11,275,943	\$ 7,650,209	30	\$ 255,007
5/1/2018	5/31/2018	\$ 10,359,173	\$ 7,002,414	31	\$ 225,884
6/1/2018	6/30/2018	\$ 11,587,820	\$ 8,115,425	30	\$ 270,514
7/1/2018	7/31/2018	\$ 13,472,970	\$ 9,427,852	31	\$ 304,124
8/1/2018	8/31/2018	\$ 12,357,067	\$ 10,057,582	31	\$ 324,438
9/1/2018	9/30/2018	\$ 13,555,964	\$ 9,129,873	30	\$ 304,329
10/1/2018	10/31/2018	\$ 10,519,662	\$ 7,458,512	31	\$ 240,597
11/1/2018	11/30/2018	\$ 10,408,897	\$ 7,535,632	30	\$ 251,188
12/1/2018	12/31/2018	\$ 12,634,538	\$ 9,093,725	31	\$ 293,346
Average		\$ 11,859,838			\$ 277,290

[1] Service Lag	15.21
[2] Collection Lag	42.77
[3] Billing Lag	<u>2.92</u>
[4] Total Average Days Lag	60.90
[5] Customer Payment Lag-annual percent	16.68%

Columns:

- (a) Accounts Receivable per general ledger at end of applicable mo
- (b) Per Company billing data
- (c) Number of days in applicable service period
- (d) Column (b) ÷ Column (c.)

Lines:

- [1] Docket No. DE 16-383
- [2] (a) / (d)
- [3] Docket No. DE 16-383
- [4] Sum of Lines 1-3
- [5] Line (4) ÷ 365

Liberty Utilities (Granite State Electric) d/b/a Liberty Utilities
 Bill Calculation

Usage	650	kWh	Current Rates	August 1, 2019 Proposed Rates	Current Bill	August 1, 2019 Proposed Bill
Customer Charge			\$13.95	\$13.95	\$13.95	\$13.95
Distribution Charge						
All kWh			\$0.04709	\$0.04709	\$30.61	\$30.61
Storm Recovery Adjustment			\$0.00000	\$0.00000	\$0.00	\$0.00
Transmission Charge			\$0.02732	\$0.02732	\$17.76	\$17.76
Stranded Cost Charge			-\$0.00106	-\$0.00106	-\$0.69	-\$0.69
System Benefits Charge			\$0.00535	\$0.00535	\$3.48	\$3.48
Electricity Consumption Tax			\$0.00000	\$0.00000	<u>\$0.00</u>	<u>\$0.00</u>
Subtotal Retail Delivery Services					\$65.11	\$65.11
Energy Service Charge			\$0.08299	\$0.07710	<u>\$53.94</u>	<u>\$50.12</u>
				Total Bill	\$119.05	\$115.22
						-\$3.83
						-3.22%