

Direct Testimony

of

David E. Tufts

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1 **I. Introduction and Qualifications**

2 **Q. Mr. Tufts, please state your full name and business address.**

3 A. My name is David E. Tufts. My business address is 201 Jones Road, Waltham,
4 Massachusetts 02451.

5

6 **Q. By whom are you employed and in what position?**

7 A. I am Director, Electric Distribution and Generation Revenue Requirements for National
8 Grid USA Service Company, Inc. (“Service Company”). Service Company provides
9 engineering, financial, administrative and other technical support to subsidiary companies
10 of National Grid USA. My current duties include revenue requirements oversight for
11 National Grid’s electric distribution and generation activities in the US, including Granite
12 State Electric Company d/b/a National Grid (“National Grid” or “the Company”).

13

14 **Q. Please provide a brief summary of your educational background.**

15 A. In 1983, I earned a Bachelor of Science degree in Accounting, from Stonehill College in
16 Easton, Massachusetts.

17

18 **Q. Please describe your professional background.**

19 A. From 1981 through April 2000, I was employed by various subsidiary companies of
20 Eastern Utilities Associates (“EUA”), including EUA Service Corporation which
21 provided accounting, financial, engineering, planning, data processing and other services
22 to all EUA System companies. I joined EUA’s accounting department in 1983. I held

1 positions of increasing responsibility in accounting and was promoted to the position of
2 Manager of Accounting Services in 1991. The EUA System was acquired by National
3 Grid USA in early 2000, at which time I joined the Service Company. In January 2009 I
4 became Director, Electric Distribution and Generation Revenue Requirements.
5

6 **Q. Have you previously testified before the New Hampshire Public Utilities**
7 **Commission (“NHPUC” or “Commission”)?**

8 A. No. I have not previously testified before the Commission.
9

10 **II. Purpose of Testimony**

11 **Q. What is the purpose of this testimony?**

12 A. This testimony supports the Company’s request for Commission approval to recover the
13 incremental operating and maintenance (“O&M”) and capital investment allowance
14 expense associated with the Vegetation Management Program (“VMP”) and Reliability
15 Enhancement Program (“REP”) implemented during fiscal year 2009. As shown in the
16 Company’s May 15th, 2009 Fiscal year 2009 REP and VMP Results and Reconciliation
17 Filing (“May 15th Reconciliation Filing”) submitted concurrently with this testimony, the
18 Company is seeking to recover the incremental O&M expense of \$113,832 above the
19 base O&M amount of \$1,360,000 through the REP/VMP Adjustment Provision, and also
20 to recover a REP Capital Investment Allowance of \$75,740 which is the revenue
21 requirement associated with \$500,000 of capital spending budgeted for fiscal year 2009.
22

1 The Company has calculated an annual rate adjustment of \$189,572 to be effective for
2 usage on and after July 1, 2009 associated with the REP Capital Investment Allowance
3 and the REP/VMP Adjustment Provision. The REP Capital Investment Allowance
4 revenue requirement of \$75,740 translates into a percentage increase of 0.36% to base
5 distribution rates. The incremental O&M expense of \$113,832 translates into a proposed
6 REP/VMP Adjustment Factor of \$0.00012 per kilowatt-hour. The REP/VMP
7 Adjustment Provision and REP Capital Investment Allowance revenue requirements and
8 rate design calculations are set forth in Schedules DET-1 and DET-2 respectively, to this
9 testimony.

10
11 **III. Incremental REP/VMP O&M Expense**

12 **Q. Is the Company's request to recover the incremental REP/VMP O&M expense**
13 **incurred during fiscal year 2009 consistent with the terms of the comprehensive**
14 **settlement agreement approved by the Commission in Docket No. DG 06-107**
15 **("Settlement Agreement")?**

16 A. Yes. As required by the Settlement Agreement, on February 15, 2008 the Company
17 provided its proposed REP and VMP to Staff for fiscal year 2009 for Staff's review. The
18 elements that the REP and VMP must include and the process for Staff review are set
19 forth in Exhibit GSE-8 to the Settlement Agreement at pages 4 and 5. The Settlement
20 Agreement at page 5 of Exhibit GSE-8 establishes a base O&M expense amount
21 approximately equal to \$1,360,000 for fiscal years 2009 through 2013. Actual expenses
22 incurred by the Company in implementing the O&M components of the annual REP and

1 VMP, as agreed to with Staff, shall be reconciled to the base O&M amount of \$1,360,000
2 and shall be subject to the REP/VMP Adjustment Provision. Following review and
3 discussion, the Company and Staff agreed to an initial O&M budget of \$1,373,832 plus
4 an additional \$100,000 for hazard tree removals for fiscal year 2009. Therefore, the total
5 O&M budget for fiscal year 2009 was \$1,473,832. As shown in the May 15th
6 Reconciliation Filing, the Company incurred \$1,477,916 in REP/VMP O&M expenses
7 during fiscal year 2009. The Company, however, is only seeking recovery of the
8 incremental O&M expense above the base amount of \$1,360,000 up to the O&M budget
9 for fiscal year 2009 of \$1,473,832, or \$113,832.

10
11 **IV. REP Capital Investment Allowance**

12 **Q. Is the calculation of the REP Capital Investment Allowance included in the**
13 **Company's May 15th Reconciliation Filing consistent with the terms of the**
14 **Settlement Agreement?**

15 A. Yes, it is. The Company is proposing to recover the incremental revenue requirement of
16 \$75,740 associated with \$500,000 of capital investments made during fiscal year 2009.
17 The calculation mirrors the calculation agreed to in the Settlement Agreement as shown
18 in Exhibit GSE-8, Attachment 1 of that document.

19
20 **Q. Were there any changes made to the revenue requirements calculation**
21 **from the Settlement Agreement?**

1 A. Yes there were. The Company updated the composite depreciation rate and the property
2 tax rate to reflect the actual data for calendar year 2008.

3

4 **Q. How was the capital investment amount included in the REP Capital Investment**
5 **Allowance revenue requirement calculation contained on Schedule DET-1 of this**
6 **testimony determined?**

7 A. Pursuant to the terms of the Settlement Agreement, Exhibit GSE-8 at Page 7,

8 “The Company shall track all capital investments made in accordance with
9 the REP for each fiscal year including FY 2008 through 2013. At the same
10 time that the Company makes its reconciliation filing for the REP/VMP
11 Adjustment reconciliation, the Company shall file a report detailing the
12 actual amount of capital investments made in accordance with
13 implementing the REP during the prior fiscal year. The report shall
14 include a calculation of the revenue requirement for adding these
15 additional capital investments into rate base, using the imputed capital
16 structure and rates set forth in Section 3.(C) of the Rate Plan, and as
17 illustrated on the accompanying Attachment 1. Provided that the
18 investments were made in accordance with the REP, the Company will be
19 allowed, subject to Commission approval, a permanent increase in its
20 distribution rates to recover the annual revenue requirement for those
21 investments. This permanent REP Capital Investment Allowance will take
22 effect for usage on and after July 1, at the same time as any REP/VMP
23 Adjustments are implemented for the preceding fiscal year as discussed in
24 section (D) above.”

25

26 As indicated in the May 15th Reconciliation Filing, the Company invested \$543,229 in
27 REP capital investments in fiscal year 2009. However, the revenue requirement
28 calculation was based on the \$500,000 capital investment budgeted for fiscal year 2009
29 as agreed to with Staff.

30

1 **Q. Would you please walk through the revenue requirement calculation contained on**
2 **Schedule DET-1 of your testimony?**

3 A. Certainly. Lines 1 through 28 calculate the rate base upon which the Company's return
4 allowance is calculated. As shown on Line 1 and Line 2 in the "FY 2009" column, the
5 fiscal year 2009 annual and cumulative REP program spend is \$500,000 as previously
6 discussed. Lines 4 through 22 calculate the deferred tax reserve based on the
7 depreciation rate timing difference between book and tax depreciation rates. The
8 composite book depreciation rate was based on actual data for calendar year 2008 and
9 equals 3.72%. The tax depreciation rate reflects the MACRS 20 year utility property year
10 1 rate of 3.75% and the utility property year 2 rate of 7.22 %. The resulting cumulative
11 book/tax timing difference is \$33,866. The cumulative deferred tax reserve equals the
12 cumulative book/tax timing difference times the effective federal and state tax rate,
13 incorporating a 8.5% state rate, of 40.53%, or \$13,724. The Company's year-end net rate
14 base of \$1,347,186, upon which the Company's return allowance is calculated, is shown
15 on Line 28 and consists of the cumulative REP capital investment limitation through
16 fiscal year 2009, or \$1,450,000, accumulated book depreciation of \$89,090 and
17 accumulated deferred tax reserves of \$13,724.

18
19 **Q. Please continue.**

20 A. As agreed to in the Settlement Agreement, the return allowance for the REP capital
21 investment allowance for each July 1st rate adjustment is based on the prior fiscal year-
22 end rate base times the stipulated pre-tax weighted average cost of capital from the

1 Settlement Agreement as shown on Lines 43 through 49, or 11.91%. The resulting return
2 allowance equals the fiscal year-end rate base of \$1,347,186 times the stipulated pre-tax
3 return rate of 11.91%, or \$160,421 as shown on Line 33. Annual depreciation expense of
4 \$53,940 and property taxes of \$27,218 are added to the return amount to arrive at the
5 total revenue requirement of \$241,579. The property tax amount is based on the actual
6 ratio of municipal tax expense to net plant in service for calendar year 2008 applied to the
7 fiscal year-end net plant in service, or the sum of lines 25 and 26.

8
9 **Q. What is reflected in the subsequent columns shown on page 3 of your Schedule**
10 **DET-1?**

11 A. The Company provided its proposed REP and VMP budgets for fiscal year 2010 to Staff
12 on February 17th. Although the Company has not yet reached agreement with Staff
13 regarding the final budget to be implemented for fiscal year 2010, the REP investment
14 target for fiscal year 2010 was established at \$500,000. For illustrative purposes, that
15 target was maintained for each of the fiscal years 2011 through 2012 and actual
16 investments for those years were assumed to be at the targeted level. The calculation of
17 the cumulative revenue requirement which was previously described for fiscal year 2009
18 was repeated for each of the subsequent fiscal years with incremental rate adjustments,
19 equal to the cumulative revenue requirement less the previous year's cumulative revenue
20 requirement, shown on Line 40 of page 3.

21
22 **V. Summary**

1 **Q. Would you please summarize Schedule DET-1 to your testimony?**

2 A. Page 1 of 3 provides a summary of estimated rate adjustments for the Incremental
3 REP/VMP O&M spend and REP capital investment allowance. The columns titled
4 “07/01/08” and “07/01/2009” represent actual data. The column titled “07/01/09” is the
5 basis for the rate adjustment to be implemented on July 1, 2009. For subsequent years
6 the annual rate adjustments are illustrative only and equal the sum of the previously
7 described annual Incremental REP/VMP O&M spend reflected on Page 2 of 3 and the
8 annual REP Capital Investment Allowance reflected on Page 3 of 3. Those subsequent
9 year rate adjustments will be the subject of annual filings before the Commission. The
10 incremental annual revenue requirement to be recovered through the Company’s
11 distribution rates commencing July 1, 2009 amounts to \$189,572.

12
13 **VI. Rate Design**

14 **Q. Is the procedure for adjusting distribution rates for the REP Capital Investment**
15 **Allowance and REP/VMP Adjustment Provision consistent with the terms of the**
16 **Settlement Agreement?**

17 A. Yes. The rate design in Schedule DET-2 of my testimony is consistent with the terms of
18 the Settlement Agreement and is the same procedure used to adjust base distribution
19 charges for the rate reductions, pursuant to the Settlement Agreement, which took place
20 for usage on and after August 11, 2007 and for usage on and after January 1, 2008,
21 respectively. It is also the same procedure used to adjust base distribution rates associated
22 with the REP Capital Investment Allowance implemented for usage on and after July 1,

1 2008 following Commission approval of the Company's REP Capital Allowance for
2 fiscal year 2008 in Docket No. DE 08-072.

3
4
5
6 **Q. Please describe the procedure for adjusting distribution rates for the REP Capital
7 Investment Allowance.**

8 A. The procedure for adjusting distribution rates is presented in Schedule DET-2 of my
9 testimony. As presented on page 1 of Schedule DET-2, the Company simply divides
10 capital investment allowance related to the REP on line (1) by the forecasted annual
11 distribution revenue for the twelve month period ended June 30, 2010 on line (2) to
12 calculate the percentage increase on line (3) which is then applied to each of the
13 Company's base distribution charge components. The calculation of the forecasted
14 annual distribution revenue is presented on Page 2 of Schedule DET-2. The calculation
15 of the new base distribution rates as well as the net proposed total distribution charges to
16 be billed to customers is presented on Page 3 of Schedule DET-2.

17
18 **Q. Please describe the procedure for calculating the adjustment factor for the REP and
19 VMP Adjustment Factor.**

20 A. The procedure for calculating the REP/VMP O&M Adjustment Factor, is presented in
21 Schedule DET-2 of my testimony. As presented on page 3 of Schedule DET-2, the
22 Company simply divides incremental O&M expense related to the REP and VMP on line

1 (1) by the Company's estimated kWh deliveries for the twelve month period ended June
2 30, 2010 on line (2) to calculate the adjustment factor on line (3) which is then applied to
3 all kWhs billed to customers. The calculation of the new base distribution rates as well
4 as the net proposed total distribution charges to be billed to customers is presented on
5 Page 4 of Schedule DET-2.
6

7 **VII. Effective Date and Bill Impact**

8 **Q. How and when is the Company proposing that these rate changes be implemented?**

9 A. Consistent with the Commission's rules on the implementation of rate changes, the
10 Company is proposing that these distribution rate changes be made effective for usage on
11 and after July 1, 2009.
12

13 **Q. Has the Company determined the impact of these rate changes on customer bills?**

14 A. Yes. These bill impacts were included as Schedule DET-3 to my testimony. Exhibit
15 Schedule DET-3 shows that for a typical residential 500 kilowatt-hour Default Service
16 customer, the bill impact of the rates proposed for July 1, 2009, as compared to rates in
17 effect today, is a bill increase of \$0.11, or 0.2%, from \$63.88 to \$63.99. In addition, a
18 bill comparison for a Default Service residential customer with an average kilowatt-hour
19 usage of 656, which is the average monthly usage over the 12 months ending April 2009,
20 has also been included on page 1 of Schedule DET-3. The total bill impact of the rates
21 proposed in this filing, as compared to rates in effect today, is a bill increase of \$0.16 or
22 0.2%, from \$84.45 to \$84.61. For other customers, increases range from 0.1% to 0.2%.

1

2 **Q. Has the Company prepared revised tariff pages reflecting the proposed rates?**

3 A. Yes. The revised tariff pages are set forth in Schedule DET-4 to my testimony.

4

5 **VIII. Conclusion**

6 **Q. Does that conclude your testimony?**

7 A. Yes, it does.

Granite State Electric Company
d/b/a National Grid
Docket No. DE 09-____
Witness: D.E. Tufts

Schedules
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Schedule DET-1	Revenue Requirements
Schedule DET-2	Rate Design
Schedule DET-3	Typical Bill Impacts
Schedule DET-4	Revised Tariff Pages

Granite State Electric Company
d/b/a National Grid
Docket No. DE 09-____
Witness: D.E. Tufts

Schedule DET-1
Revenue Requirement

Granite State Electric Company
Incremental REP Program
Annual Rate Changes
FY 2009

<u>Annual Incremental Rate Adjustments</u>		<u>07/01/2007</u>	<u>07/01/2008</u>	<u>07/01/2009</u>	<u>07/01/2010</u>	<u>07/01/2011</u>	<u>07/01/2012</u>
1	REP and VMP O&M Program	0	0	113,832	(13,832)	(100,000)	0
2							
3	REP Capital Program	0	165,840	75,740	75,844	72,772	69,805
4							
5	Total	0	165,840	189,572	62,012	(27,228)	69,805

Notes:

Line 1 From Page 2 of 3 Line 15.
Line 3 From Page 3 of 3 Line 40.
Line 5 Line 1 + Line 3.

**Granite State Electric Company
Incremental VMP and REP O&M Program
Computation of Annual Revenue Requirement
FY 2009**

	<u>FY</u> <u>2008</u>	<u>FY</u> <u>2009</u>	<u>FY</u> <u>2010</u>	<u>FY</u> <u>2011</u>	<u>FY</u> <u>2012</u>	
<u>Incremental VMP and REP O&M Spend</u>						
1 Actual VMP and REP Program Spending	2,169,258	1,477,916	1,460,000	1,360,000	1,360,000	
2						
3 Approved Program Budget	1,950,000	1,473,832	1,460,000	1,360,000	1,360,000	
4						
5 Lesser of Actual Spending and Approved Program Budget	1,950,000	1,473,832	1,460,000	1,360,000	1,360,000	
6						
7 VMP and REP Base Spending Level	<u>1,950,000</u>	<u>1,360,000</u>	<u>1,360,000</u>	<u>1,360,000</u>	<u>1,360,000</u>	
8						
9 Total Revenue Requirement	<u>0</u>	<u>113,832</u>	<u>100,000</u>	<u>0</u>	<u>0</u>	
10						
11 <u>Annual Rate Adjustment</u>	<u>7/1/2007</u>	<u>7/1/2008</u>	<u>7/1/2009</u>	<u>7/1/2010</u>	<u>7/1/2011</u>	<u>7/1/2012</u>
12						
13 Current Year Rate Adjustment		0	113,832	100,000	0	0
14 Expiration of Prior Year Rate Adjustment		0	0	(113,832)	(100,000)	0
15 Incremental Rate Adjustment	<u>0</u>	<u>0</u>	<u>113,832</u>	<u>(13,832)</u>	<u>(100,000)</u>	<u>0</u>

Notes:

- Line 1 Actual VMP and REP program spending for fiscal year 2008 and projected spending for all other years.
- Line 3 Approved program budget pursuant to the Company's annual February 15 REP and VMP plan submission. Approval of FY2010 is currently pending before the NHPUC.
- Line 5 Lesser of Line 1 and Line 3.
- Line 7 VMP and REP base spending level per Merger Settlement Agreement in Docket No. DG 06-107.
- Line 9 Line 5 minus Line 7.
- Line 13 Prior year Line 9.
- Line 14 Minus prior year Line 13.
- Line 15 Line 13 plus Line 14.

**Granite State Electric Company
Incremental REP Capital Program
Computation of Revenue Requirement
FY 2009**

		<u>FY</u> <u>2008</u>	<u>FY</u> <u>2009</u>	<u>FY</u> <u>2010</u>	<u>FY</u> <u>2011</u>	<u>FY</u> <u>2012</u>	<u>FY</u> <u>2013</u>	
<u>Deferred Tax Calculation</u>								
1	REP Program Annual Spend	/1	950,000	500,000	500,000	500,000	500,000	
2	Cumulative REP Program Spend		950,000	1,450,000	1,950,000	2,450,000	2,950,000	
3								
4	Book Depreciation Rate (a)		3.70%	3.72%	3.72%	3.72%	3.72%	
5	20 YR MACRS Tax Depr. Rates		3.75%	7.22%	6.68%	6.18%	5.71%	
6	Vintage Year Tax Depreciation:							
7	Year 1 Spend		35,625	68,581	63,432	58,682	54,274	
8	Year 2 Spend			18,750	36,095	33,385	30,885	
9	Year 3 Spend				18,750	36,095	33,385	
10	Year 4 Spend				18,750	36,095		
11	Year 5 Spend					18,750		
12								
13	Annual Tax Depreciation		35,625	87,331	118,277	146,912	173,389	
14	Cumulative Tax Depreciation		35,625	122,956	241,232	388,144	561,532	
15								
16	Book Depreciation		35,150	53,940	72,540	91,140	109,740	
17	Cumulative Book Depreciation		35,150	89,090	161,630	252,770	362,510	
18								
19	Book/Tax Timer		475	33,866	79,602	135,374	199,022	
20	Effective Tax Rate		40.53%	40.53%	40.53%	40.53%	40.53%	
21								
22	Deferred Tax Reserve		192	13,724	32,259	54,860	80,654	
23								
24	<u>Rate Base Calculation</u>							
25	Plant In Service		950,000	1,450,000	1,950,000	2,450,000	2,950,000	
26	Accumulated Depreciation		(35,150)	(89,090)	(161,630)	(252,770)	(362,510)	
27	Deferred Tax Reserve		(192)	(13,724)	(32,259)	(54,860)	(80,654)	
28	Year End Rate Base		914,658	1,347,186	1,756,111	2,142,370	2,506,836	
29								
30	<u>Revenue Requirement Calculation</u>							
31	Year End Rate Base		914,658	1,347,186	1,756,111	2,142,370	2,506,836	
32	Pre-Tax ROR		11.91%	11.91%	11.91%	11.91%	11.91%	
33	Return and Taxes		108,916	160,421	209,116	255,111	298,511	
34	Book Depreciation		35,150	53,940	72,540	91,140	109,740	
35	Property Taxes (b)	2.00%	21,773	27,218	35,767	43,945	51,750	
36	Annual Revenue Requirement		165,840	241,579	317,423	390,195	460,001	
37								
38	<u>Annual Rate Adjustment</u>							
39			7/1/2008	7/1/2009	7/1/2010	7/1/2011	7/1/2012	
40	Incremental Annual Rate Adjustment		165,840	75,740	75,844	72,772	69,805	
41								
42								
43	<u>Imputed Capital Structure (c)</u>							
44		Ratio	Rate	Weighted Rate	Pre Tax			
45	Long Term Debt	50.00%	7.54%	3.77%	3.77%			
46								
47	Common Equity	50.00%	9.67%	4.84%	8.14%			
48								
49		100.00%		8.61%	11.91%			

/1 Actual REP capital spending for FY2008 and FY2009 exceeded the REP program annual spend targets of \$950,000 and \$500,000, respectively.

(a) Actual 2008 Composite Depreciation rate for distribution property.

(b) Actual 2008 ratio of municipal tax expense to net plant in service.

(c) Capital structure per Merger Settlement in Docket DG 06-107, Exhibit 1, Section 3(c).

Granite State Electric Company
d/b/a National Grid
Docket No. DE 09-____
Witness: D.E. Tufts

Schedule DET-2
Rate Design

Granite State Electric Company
Rate Settlement
Procedure for Adjusting Distribution Rates for Capital Investment Allowance
Calculation of Percentage Adjustment to Distribution Rates
Rates Effective July 1, 2009

(1) Increase in Annual Revenue Requirement	\$75,740
(2) Forecasted Base Distribution Revenue	\$21,227,442
(3) Percentage of Adjustment to Distribution Rates	0.36%

- (1) Schedule DET- 1, Page 1
- (2) Page 2, Forecasted Billing Units for the applicable period multiplied by current rates.
- (3) Line (1) ÷ Line (2)

Granite State Electric Company
Rate Settlement
Procedure for Adjusting Distribution Rates for Capital Investment Allowance
Calculation of Percentage Adjustment to Distribution Rates
Forecasted Distribution Revenue for Period from July 2009 through June 2010

Rate Class	Distribution Rate Component	Current Base Distribution Charges (a)	Forecasted Units (b)	Forecasted Revenue (c)
D	Customer Charge	\$4.31	405,682	\$1,748,487.33
	1st 250 kWh	\$0.01623	92,296,751	\$1,497,976.27
	Excess 250 kWh	\$0.04226	162,715,413	\$6,876,353.34
	Off Peak kWh	\$0.01552	7,709,177	\$119,646.43
	Farm kWh	\$0.02524	1,192,141	\$30,089.63
	D-6 kWh	\$0.01623	1,006,697	\$16,338.69
	Interruptible Credit IC-1	(\$4.80)	2,940	-\$14,112.00
	Interruptible Credit IC-2	(\$6.40)	468	-\$2,995.20
D-10	Customer Charge	\$7.40	5,108	\$37,800.46
	On Peak kWh	\$0.04691	1,960,786	\$91,980.47
	Off Peak kWh	\$0.00000		
G-1	Customer Charge	\$91.92	1,413	\$129,842.09
	Demand Charge	\$4.02	880,229	\$3,538,521.36
	On Peak kWh	\$0.00133	151,636,687	\$201,676.79
	Off Peak kWh	\$0.00000		
	Credit for High Voltage Delivery > 2.4 kv	(\$0.26)	309,753	-\$80,535.69
	Credit for High Voltage Metering			-\$62,307.65
	Optional Charge			\$17,802.19
G-2	Customer Charge	\$24.61	9,715	\$239,091.33
	Demand Charge	\$4.44	534,745	\$2,374,268.70
	All kWh	\$0.00031	161,861,716	\$50,177.13
	Credit for High Voltage Delivery > 2.4 kv	(\$0.26)	481	-\$125.13
	Credit for High Voltage Metering			-\$532.71
	Optional Charge			\$4,794.37
G-3	Customer Charge	\$5.45	65,216	\$355,425.27
	All kWh	\$0.03041	96,540,198	\$2,935,787.43
	Minimum Charge > 25 kVA	\$1.61		
M	Luminaire Charge			
	Lamp Code			
	010	\$48.31	26	\$1,256.06
	003	\$58.74	351	\$20,617.74
	004	\$111.07	509	\$56,534.63
	005	\$210.73	74	\$15,594.02
	006	\$66.74	1	\$66.74
	023	\$122.84	43	\$5,282.12
	024	\$212.11	2	\$424.22
	070	\$50.00	2184	\$109,200.00
	072	\$60.61	1618	\$98,066.98
	074	\$106.42	590	\$62,787.80
	075	\$138.66	249	\$34,526.34
	077	\$107.37	297	\$31,888.89
	078	\$148.22	480	\$71,145.60
	079	\$69.80	356	\$24,848.80
	Pole and Accessory Charge			
	Pole and Accessory Code			
	P	\$58.92	138	\$8,130.96
	R	\$61.01	248	\$15,130.48
	C	\$103.45	105	\$10,862.25
	D	\$172.83	0	\$0.00
	F	\$123.36	97	\$11,965.92
	T	\$148.65	129	\$19,175.85
	All kWh	\$0.00000		
T	Customer Charge	\$5.57	16,788	\$93,507.73
	All kWh	\$0.01987	22,043,301	\$438,000.39
	Interruptible Credit IC-1	(\$4.80)	3,588	-\$17,222.40
	Interruptible Credit IC-2	(\$6.40)	120	-\$768.00
V	Minimum Charge	\$5.82	275	\$1,599.47
	All kWh	\$0.02806	333,879	\$9,368.64
				\$21,227,442.13
(a)	Per currently effective tariffs			
(b)	Company Forecast			
(c)	Column (a) x Column (b)			

Granite State Electric Company
Rate Settlement
Calculation of Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor
Rates Effective July 1, 2009

(1) Incremental O&M Expense Above Base O&M Expense	\$113,832
(2) Estimated kWh deliveries	893,943,798
(3) Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor	\$0.00012

- (1) Schedule DET- 1, Page 1
- (2) Per Company forecast
- (3) Line (1) ÷ Line (2), truncated after 5 decimal places

Granite State Electric Company
Rate Settlement
Procedure for Adjusting Distribution Rates for Capital Investment Allowance & Incremental O&M Expense
Rates Effective July 1, 2009

Rate Class	Distribution Rate Component	Current Base Distribution Charges (a)	Proposed Distribution % Increase (b)	Proposed Base Distribution Charges (c)	Current Business Profits Surcharge (d)	Current Default Service Cost Reclassification Distribution Credit (e)	Proposed REP & VMP Operations & Maintenance Adjustment Factor (f)	Proposed Total Distribution Charges (g)
D	Customer Charge	\$4.31	0.36%	\$4.32				\$4.32
	1st 250 kWh	\$0.01623	0.36%	\$0.01628	\$0.00057	(\$0.00017)	\$0.00012	\$0.01680
	Excess 250 kWh	\$0.04226	0.36%	\$0.04241	\$0.00057	(\$0.00017)	\$0.00012	\$0.04293
	Off Peak kWh	\$0.01552	0.36%	\$0.01557	\$0.00057	(\$0.00017)	\$0.00012	\$0.01609
	Farm kWh	\$0.02524	0.36%	\$0.02533	\$0.00057	(\$0.00017)	\$0.00012	\$0.02585
	D-6 kWh	\$0.01623	0.36%	\$0.01628	\$0.00057	(\$0.00017)	\$0.00012	\$0.01680
	Interruptible Credit IC-1	(\$4.80)	0.36%	(\$4.81)				(\$4.81)
	Interruptible Credit IC-2	(\$6.40)	0.36%	(\$6.42)				(\$6.42)
D-10	Customer Charge	\$7.40	0.36%	\$7.42				\$7.42
	On Peak kWh	\$0.04691	0.36%	\$0.04707	\$0.00057	(\$0.00008)	\$0.00012	\$0.04768
	Off Peak kWh	\$0.00000	0.36%	\$0.00000	\$0.00057	(\$0.00008)	\$0.00012	\$0.00061
G-1	Customer Charge	\$91.92	0.36%	\$92.25				\$92.25
	Demand Charge	\$4.02	0.36%	\$4.03				\$4.03
	On Peak kWh	\$0.00133	0.36%	\$0.00133	\$0.00057	\$0.00000	\$0.00012	\$0.00202
	Off Peak kWh	\$0.00000	0.36%	\$0.00000	\$0.00057	\$0.00000	\$0.00012	\$0.00069
	Credit for High Voltage Delivery > 2.4 kv	(\$0.26)	0.36%	(\$0.26)				(\$0.26)
G-2	Customer Charge	\$24.61	0.36%	\$24.69				\$24.69
	Demand Charge	\$4.44	0.36%	\$4.45				\$4.45
	All kWh	\$0.00031	0.36%	\$0.00031	\$0.00057	\$0.00000	\$0.00012	\$0.00100
	Credit for High Voltage Delivery > 2.4 kv	(\$0.26)	0.36%	(\$0.26)				(\$0.26)
G-3	Customer Charge	\$5.45	0.36%	\$5.46				\$5.46
	All kWh	\$0.03041	0.36%	\$0.03051	\$0.00057	(\$0.00017)	\$0.00012	\$0.03103
	Minimum Charge > 25 kVA	\$1.61	0.36%	\$1.61				\$1.61
M	Luminaire Charge							
	<u>Lamp Code</u>							
	003	\$48.31	0.36%	\$48.48				\$48.48
	004	\$58.74	0.36%	\$58.95				\$58.95
	005	\$111.07	0.36%	\$111.46				\$111.46
	006	\$210.73	0.36%	\$211.48				\$211.48
	010	\$66.74	0.36%	\$66.98				\$66.98
	023	\$122.84	0.36%	\$123.28				\$123.28
	024	\$212.11	0.36%	\$212.87				\$212.87
	070	\$50.00	0.36%	\$50.18				\$50.18
	072	\$60.61	0.36%	\$60.82				\$60.82
	074	\$106.42	0.36%	\$106.80				\$106.80
	075	\$138.66	0.36%	\$139.15				\$139.15
	077	\$107.37	0.36%	\$107.75				\$107.75
	078	\$148.22	0.36%	\$148.75				\$148.75
	079	\$69.80	0.36%	\$70.05				\$70.05
	<u>Pole and Accessory Charge</u>							
	<u>Pole and Accessory Code</u>							
	P	\$58.92	0.36%	\$59.13				\$59.13
	R	\$61.01	0.36%	\$61.22				\$61.22
	C	\$103.45	0.36%	\$103.82				\$103.82
	D	\$172.83	0.36%	\$173.45				\$173.45
	F	\$123.36	0.36%	\$123.80				\$123.80
	T	\$148.65	0.36%	\$149.18				\$149.18
	All kWh	\$0.00000	0.36%	\$0.00000	\$0.00057	\$0.00000	\$0.00012	\$0.00069
T	Customer Charge	\$5.57	0.36%	\$5.59				\$5.59
	All kWh	\$0.01987	0.36%	\$0.01994	\$0.00057	(\$0.00007)	\$0.00012	\$0.02056
	Interruptible Credit IC-1	(\$4.80)	0.36%	(\$4.81)				(\$4.81)
	Interruptible Credit IC-2	(\$6.40)	0.36%	(\$6.42)				(\$6.42)
V	Minimum Charge	\$5.82	0.36%	\$5.84				\$5.84
	All kWh	\$0.02806	0.36%	\$0.02816	\$0.00057	(\$0.00009)	\$0.00012	\$0.02876

(a) Per currently effective tariffs
 (b) Page 1
 (c) Column (a) x (1+Column (b))
 (d) Distribution Energy Charges include a Business Profits Tax Surcharge of \$0.00057 per kWh for usage on and after 8/1/01
 (e) Per Default Service Cost Reclassification Adjustment Provision
 (f) Page 3
 (g) Column (c) + Column (d) + Column (e) + Column (f)

Granite State Electric Company
d/b/a National Grid
Docket No. DE 09-____
Witness: D.E. Tufts

Schedule DET-3
Typical Bill Impacts

Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D Default Service Customers
 Without Water Heater Control
 0% Off-Peak

kWh Split
 On-Peak 100.00%
 Off-Peak 0.00%

Monthly kWh	On-Peak kWh	Off-Peak kWh	(1)			(2)			(1) vs (2)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	200	0	\$25.53	\$13.78	\$11.75	\$25.57	\$13.78	\$11.79	\$0.04	0.2%
350	350	0	\$44.05	\$24.12	\$19.93	\$44.12	\$24.12	\$20.00	\$0.07	0.2%
500	500	0	\$63.88	\$34.46	\$29.42	\$63.99	\$34.46	\$29.53	\$0.11	0.2%
656	656	0	\$84.45	\$45.20	\$39.25	\$84.61	\$45.20	\$39.41	\$0.16	0.2%
750	750	0	\$96.88	\$51.68	\$45.20	\$97.07	\$51.68	\$45.39	\$0.19	0.2%
1,000	1,000	0	\$129.92	\$68.91	\$61.01	\$130.17	\$68.91	\$61.26	\$0.25	0.2%

	Present Rates	Proposed Rates
Customer Charge	\$4.31	\$4.32
Distribution Charge		
1st 250 kWh	kWh x \$0.01663	\$0.01680
excess of 250 kWh	kWh x \$0.04266	\$0.04293
Off Peak kWh	kWh x \$0.01592	\$0.01609
Def. Serv. Adj. Fctr	kWh x \$0.00000	\$0.00000
Transmission Charge	kWh x \$0.01679	\$0.01679
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055
<u>Supplier Services</u>		
Default Service	kWh x \$0.06891	\$0.06891

Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D Default Service Customers
 With 6 Hour Water Heater Control

kWh Split
 On-Peak 80.00%
 Off-Peak 20.00%

/----- (1) -----/----- (2) -----/ (1) vs (2)

Monthly KWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	160	40	\$20.70	\$13.78	\$6.92	\$20.73	\$13.78	\$6.95	\$0.03	0.1%
350	280	70	\$37.37	\$24.12	\$13.25	\$37.44	\$24.12	\$13.32	\$0.07	0.2%
500	400	100	\$56.40	\$34.46	\$21.94	\$56.50	\$34.46	\$22.04	\$0.10	0.2%
750	600	150	\$88.07	\$51.68	\$36.39	\$88.23	\$51.68	\$36.55	\$0.16	0.2%
1,000	800	200	\$119.76	\$68.91	\$50.85	\$119.99	\$68.91	\$51.08	\$0.23	0.2%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$4.31	\$4.32
Distribution Charge		
1st 250 kWh	kWh x \$0.01663	\$0.01680
excess of 250 kWh	kWh x \$0.04266	\$0.04293
Off Peak kWh	kWh x \$0.01592	\$0.01609
Def. Serv. Adj. Fctr	kWh x \$0.00000	\$0.00000
Transmission Charge	kWh x \$0.01679	\$0.01679
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055
Interruptible Credit #1	(\$4.80)	(\$4.81)

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D Default Service Customers
 With 6 Hour Water Heater Control

kWh Split
 On-Peak 60.00%
 Off-Peak 40.00%

/----- (1) -----//----- (2) -----/ (1) vs (2)

Monthly KWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	120	80	\$19.07	\$13.78	\$5.29	\$19.10	\$13.78	\$5.32	\$0.03	0.2%
350	210	140	\$34.94	\$24.12	\$10.82	\$34.99	\$24.12	\$10.87	\$0.05	0.1%
500	300	200	\$52.12	\$34.46	\$17.66	\$52.21	\$34.46	\$17.75	\$0.09	0.2%
750	450	300	\$82.46	\$51.68	\$30.78	\$82.60	\$51.68	\$30.92	\$0.14	0.2%
1,000	600	400	\$112.82	\$68.91	\$43.91	\$113.02	\$68.91	\$44.11	\$0.20	0.2%

Present Rates

Proposed Rates

Customer Charge		\$4.31	\$4.32
Distribution Charge		\$0.00000	\$0.00000
1st 250 kWh	kWh x	\$0.01663	\$0.01680
excess of 250 kWh	kWh x	\$0.04266	\$0.04293
Off Peak kWh	kWh x	\$0.01592	\$0.01609
Def. Serv. Adj. Fctr	kWh x	\$0.00000	\$0.00000
Transmission Charge	kWh x	\$0.01679	\$0.01679
Stranded Cost Charge	kWh x	(\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055
Interruptible Credit #2		(\$6.40)	(\$6.42)

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D-10 Default Service Customers

kWh Split
 On-Peak 80.00%
 Off-Peak 20.00%

/----- (1) -----/ /----- (2) -----/ (1) vs (2)

Monthly KWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
700	560	140	\$95.71	\$48.24	\$47.47	\$95.91	\$48.24	\$47.67	\$0.20	0.2%
1,000	800	200	\$133.54	\$68.91	\$64.63	\$133.80	\$68.91	\$64.89	\$0.26	0.2%
1,300	1,040	260	\$171.38	\$89.58	\$81.80	\$171.72	\$89.58	\$82.14	\$0.34	0.2%
1,600	1,280	320	\$209.23	\$110.26	\$98.97	\$209.65	\$110.26	\$99.39	\$0.42	0.2%
1,900	1,520	380	\$247.07	\$130.93	\$116.14	\$247.55	\$130.93	\$116.62	\$0.48	0.2%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$7.40	\$7.42
Distribution Charge		
On Peak kWh	kWh x \$0.04740	\$0.04768
Off Peak kWh	kWh x \$0.00049	\$0.00061
Def. Serv. Adj. Fctr	kWh x \$0.00000	\$0.00000
Transmission Charge	kWh x \$0.01548	\$0.01548
Stranded Cost Charge	kWh x (\$0.00012)	(\$0.00012)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D-10 Default Service Customers

kWh Split
 On-Peak 70.00%
 Off-Peak 30.00%

/----- (1) -----/ /----- (2) -----/ (1) vs (2)

Monthly KWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
700	490	210	\$92.43	\$48.24	\$44.19	\$92.61	\$48.24	\$44.37	\$0.18	0.2%
1,000	700	300	\$128.85	\$68.91	\$59.94	\$129.10	\$68.91	\$60.19	\$0.25	0.2%
1,300	910	390	\$165.27	\$89.58	\$75.69	\$165.60	\$89.58	\$76.02	\$0.33	0.2%
1,600	1,120	480	\$201.73	\$110.26	\$91.47	\$202.11	\$110.26	\$91.85	\$0.38	0.2%
1,900	1,330	570	\$238.15	\$130.93	\$107.22	\$238.61	\$130.93	\$107.68	\$0.46	0.2%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$7.40	\$7.42
Distribution Charge		
On Peak kWh	kWh x \$0.04740	\$0.04768
Off Peak kWh	kWh x \$0.00049	\$0.00061
Def. Serv. Adj. Fctr	kWh x \$0.00000	\$0.00000
Transmission Charge	kWh x \$0.01548	\$0.01548
Stranded Cost Charge	kWh x (\$0.00012)	(\$0.00012)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate D-10 Default Service Customers

kWh Split
 On-Peak 60.00%
 Off-Peak 40.00%

/----- (1) -----/ /----- (2) -----/ (1) vs (2)

Monthly KWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
			Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
700	420	280	\$89.15	\$48.24	\$40.91	\$89.32	\$48.24	\$41.08	\$0.17	0.2%
1,000	600	400	\$124.16	\$68.91	\$55.25	\$124.39	\$68.91	\$55.48	\$0.23	0.2%
1,300	780	520	\$159.17	\$89.58	\$69.59	\$159.48	\$89.58	\$69.90	\$0.31	0.2%
1,600	960	640	\$194.21	\$110.26	\$83.95	\$194.58	\$110.26	\$84.32	\$0.37	0.2%
1,900	1,140	760	\$229.24	\$130.93	\$98.31	\$229.67	\$130.93	\$98.74	\$0.43	0.2%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$7.40	\$7.42
Distribution Charge		
On Peak kWh	kWh x \$0.04740	\$0.04768
Off Peak kWh	kWh x \$0.00049	\$0.00061
Def. Serv. Adj. Fctr	kWh x \$0.00000	\$0.00000
Transmission Charge	kWh x \$0.01548	\$0.01548
Stranded Cost Charge	kWh x (\$0.00012)	(\$0.00012)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-3 Default Service Customers

Hours Use

Monthly kWh	(1)			(2)			(1) vs (2)	
	Total	Present Rates Default Service	Retail Delivery	Total	Proposed Rates Default Service	Retail Delivery	Overall Increase (Decrease) Amount	%
600	\$76.94	\$41.35	\$35.59	\$77.08	\$41.35	\$35.73	\$0.14	0.2%
800	\$100.76	\$55.13	\$45.63	\$100.94	\$55.13	\$45.81	\$0.18	0.2%
1,200	\$148.42	\$82.69	\$65.73	\$148.70	\$82.69	\$66.01	\$0.28	0.2%
1,500	\$184.17	\$103.37	\$80.80	\$184.51	\$103.37	\$81.14	\$0.34	0.2%
2,000	\$243.73	\$137.82	\$105.91	\$244.18	\$137.82	\$106.36	\$0.45	0.2%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$5.45	\$5.46
Distribution Charge	kWh x	\$0.03081	\$0.03103
Transmission Charge	kWh x	\$0.01568	\$0.01568
Stranded Cost Charge	kWh x	(\$0.00011)	(\$0.00011)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate T Default Service Customers

Monthly kWh	(1)			(2)			(1) vs (2)	
	Total	Present Rates Default Service	Retail Delivery	Total	Proposed Rates Default Service	Retail Delivery	Overall Increase (Decrease) Amount	%
600	\$72.15	\$41.35	\$30.80	\$72.29	\$41.35	\$30.94	\$0.14	0.2%
800	\$94.35	\$55.13	\$39.22	\$94.52	\$55.13	\$39.39	\$0.17	0.2%
1,200	\$138.73	\$82.69	\$56.04	\$138.98	\$82.69	\$56.29	\$0.25	0.2%
1,500	\$172.04	\$103.37	\$68.67	\$172.34	\$103.37	\$68.97	\$0.30	0.2%
2,000	\$227.51	\$137.82	\$89.69	\$227.91	\$137.82	\$90.09	\$0.40	0.2%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$5.57	\$5.59
Distribution Charge	kWh x	\$0.02037	\$0.02056
Transmission Charge	kWh x	\$0.01794	\$0.01794
Stranded Cost Charge	kWh x	(\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate V Default Service Customers

Monthly kWh	(1)			(2)			(1) vs (2)	
	Total	Present Rates Default Service	Retail Delivery	Total	Proposed Rates Default Service	Retail Delivery	Overall Increase (Decrease) Amount	%
600	\$71.47	\$41.35	\$30.12	\$71.61	\$41.35	\$30.26	\$0.14	0.2%
800	\$95.30	\$55.13	\$40.17	\$95.48	\$55.13	\$40.35	\$0.18	0.2%
1,200	\$142.94	\$82.69	\$60.25	\$143.20	\$82.69	\$60.51	\$0.26	0.2%
1,500	\$178.69	\$103.37	\$75.32	\$179.02	\$103.37	\$75.65	\$0.33	0.2%
2,000	\$238.24	\$137.82	\$100.42	\$238.68	\$137.82	\$100.86	\$0.44	0.2%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Minimum Charge		\$5.82	\$5.84
Distribution Charge	kWh x	\$0.02854	\$0.02876
Transmission Charge	kWh x	\$0.01797	\$0.01797
Stranded Cost Charge	kWh x	(\$0.00015)	(\$0.00015)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.06891	\$0.06891
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-1 Default Service Customers

Hours Use kWh Split
 250 On-Peak 60.00%
 Off-Peak 40.00%

/----- (1) -----/ /----- (2) -----/ (1) vs (2)

kW	Monthly kWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
				Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	50,000	30,000	20,000	\$5,445.82	\$3,567.00	\$1,878.82	\$5,454.15	\$3,567.00	\$1,887.15	\$8.33	0.2%
300	75,000	45,000	30,000	\$8,122.77	\$5,350.50	\$2,772.27	\$8,135.10	\$5,350.50	\$2,784.60	\$12.33	0.2%
400	100,000	60,000	40,000	\$10,799.72	\$7,134.00	\$3,665.72	\$10,816.05	\$7,134.00	\$3,682.05	\$16.33	0.2%
500	125,000	75,000	50,000	\$13,476.67	\$8,917.50	\$4,559.17	\$13,497.00	\$8,917.50	\$4,579.50	\$20.33	0.2%
1,000	250,000	150,000	100,000	\$26,861.42	\$17,835.00	\$9,026.42	\$26,901.75	\$17,835.00	\$9,066.75	\$40.33	0.2%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$91.92	\$92.25
Distribution Charge		
On Peak kWh	kWh x \$0.00190	\$0.00202
Off Peak kWh	kWh x \$0.00057	\$0.00069
Distribution Demand Charge	kW x \$4.02	\$4.03
Transmission Charge	kWh x \$0.01454	\$0.01454
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x \$0.07134	\$0.07134
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-1 Default Service Customers

Hours Use kWh Split
 350 On-Peak 50.00%
 Off-Peak 50.00%

-----/ (1) -----/ /-----/ (2) -----/ (1) vs (2)

kW	Monthly kWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
				Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	70,000	35,000	35,000	\$7,256.47	\$4,993.80	\$2,262.67	\$7,267.20	\$4,993.80	\$2,273.40	\$10.73	0.1%
300	105,000	52,500	52,500	\$10,838.75	\$7,490.70	\$3,348.05	\$10,854.68	\$7,490.70	\$3,363.98	\$15.93	0.1%
400	140,000	70,000	70,000	\$14,421.02	\$9,987.60	\$4,433.42	\$14,442.15	\$9,987.60	\$4,454.55	\$21.13	0.1%
500	175,000	87,500	87,500	\$18,003.30	\$12,484.50	\$5,518.80	\$18,029.63	\$12,484.50	\$5,545.13	\$26.33	0.1%
1,000	350,000	175,000	175,000	\$35,914.67	\$24,969.00	\$10,945.67	\$35,967.00	\$24,969.00	\$10,998.00	\$52.33	0.1%

	Present Rates	Proposed Rates
Customer Charge	\$91.92	\$92.25
Distribution Charge		
On Peak kWh	kWh x \$0.00190	\$0.00202
Off Peak kWh	kWh x \$0.00057	\$0.00069
Distribution Demand Charge	kW x \$4.02	\$4.03
Transmission Charge	kWh x \$0.01454	\$0.01454
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.07134	\$0.07134
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-1 Default Service Customers

Hours Use kWh Split
 450 On-Peak 45.00%
 Off-Peak 55.00%

----- (1) ----- / ----- (2) ----- / ----- (1) vs (2) -----

kW	Monthly kWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
				Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	90,000	40,500	49,500	\$9,067.79	\$6,420.60	\$2,647.19	\$9,080.92	\$6,420.60	\$2,660.32	\$13.13	0.1%
300	135,000	60,750	74,250	\$13,555.72	\$9,630.90	\$3,924.82	\$13,575.25	\$9,630.90	\$3,944.35	\$19.53	0.1%
400	180,000	81,000	99,000	\$18,043.65	\$12,841.20	\$5,202.45	\$18,069.58	\$12,841.20	\$5,228.38	\$25.93	0.1%
500	225,000	101,250	123,750	\$22,531.59	\$16,051.50	\$6,480.09	\$22,563.92	\$16,051.50	\$6,512.42	\$32.33	0.1%
1,000	450,000	202,500	247,500	\$44,971.25	\$32,103.00	\$12,868.25	\$45,035.58	\$32,103.00	\$12,932.58	\$64.33	0.1%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$91.92	\$92.25
Distribution Charge		
On Peak kWh	kWh x \$0.00190	\$0.00202
Off Peak kWh	kWh x \$0.00057	\$0.00069
Distribution Demand Charge	kW x \$4.02	\$4.03
Transmission Charge	kWh x \$0.01454	\$0.01454
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x \$0.07134	\$0.07134
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-1 Default Service Customers

Hours Use kWh Split
 450 On-Peak 40.00%
 Off-Peak 60.00%

/----- (1) -----/----- (2) -----/ (1) vs (2)

kW	Monthly kWh	On-Peak kWh	Off-Peak kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
				Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
200	90,000	36,000	54,000	\$9,061.80	\$6,420.60	\$2,641.20	\$9,074.93	\$6,420.60	\$2,654.33	\$13.13	0.1%
300	135,000	54,000	81,000	\$13,546.74	\$9,630.90	\$3,915.84	\$13,566.27	\$9,630.90	\$3,935.37	\$19.53	0.1%
400	180,000	72,000	108,000	\$18,031.68	\$12,841.20	\$5,190.48	\$18,057.61	\$12,841.20	\$5,216.41	\$25.93	0.1%
500	225,000	90,000	135,000	\$22,516.62	\$16,051.50	\$6,465.12	\$22,548.95	\$16,051.50	\$6,497.45	\$32.33	0.1%
1,000	450,000	180,000	270,000	\$44,941.32	\$32,103.00	\$12,838.32	\$45,005.65	\$32,103.00	\$12,902.65	\$64.33	0.1%

	<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge	\$91.92	\$92.25
Distribution Charge		
On Peak kWh	kWh x \$0.00190	\$0.00202
Off Peak kWh	kWh x \$0.00057	\$0.00069
Distribution Demand Charge	kW x \$4.02	\$4.03
Transmission Charge	kWh x \$0.01454	\$0.01454
Stranded Cost Charge	kWh x (\$0.00010)	(\$0.00010)
System Benefits Charge	kWh x \$0.00330	\$0.00330
Electricity Consumption Tax	kWh x \$0.00055	\$0.00055

Supplier Services

Default Service	kWh x \$0.07134	\$0.07134
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-2 Default Service Customers

Hours Use 200

kW	Monthly kWh	(1)			(2)			(1) vs (2)	
		Total	Present Rates Default Service	Retail Delivery	Total	Proposed Rates Default Service	Retail Delivery	Overall Increase (Decrease) Amount	%
20	4,000	\$481.93	\$285.36	\$196.57	\$482.69	\$285.36	\$197.33	\$0.76	0.2%
50	10,000	\$1,167.91	\$713.40	\$454.51	\$1,169.69	\$713.40	\$456.29	\$1.78	0.2%
75	15,000	\$1,739.56	\$1,070.10	\$669.46	\$1,742.19	\$1,070.10	\$672.09	\$2.63	0.2%
100	20,000	\$2,311.21	\$1,426.80	\$884.41	\$2,314.69	\$1,426.80	\$887.89	\$3.48	0.2%
150	30,000	\$3,454.51	\$2,140.20	\$1,314.31	\$3,459.69	\$2,140.20	\$1,319.49	\$5.18	0.1%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$24.61	\$24.69
Distribution Charge	kWh x	\$0.00088	\$0.00100
Distribution Demand Charge	kW x	\$4.44	\$4.45
Transmission Charge	kWh x	\$0.01617	\$0.01617
Stranded Cost Charge	kWh x	(\$0.00011)	(\$0.00011)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055

Supplier Services

Default Service	kWh x	\$0.07134	\$0.07134
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Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-2 Default Service Customers

Hours Use 250

		(1)			(2)			(1) vs (2)	
kW	Monthly kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
20	5,000	\$574.06	\$356.70	\$217.36	\$574.94	\$356.70	\$218.24	\$0.88	0.2%
50	12,500	\$1,398.24	\$891.75	\$506.49	\$1,400.32	\$891.75	\$508.57	\$2.08	0.1%
75	18,750	\$2,085.06	\$1,337.63	\$747.43	\$2,088.14	\$1,337.63	\$750.51	\$3.08	0.1%
100	25,000	\$2,771.86	\$1,783.50	\$988.36	\$2,775.94	\$1,783.50	\$992.44	\$4.08	0.1%
150	37,500	\$4,145.49	\$2,675.25	\$1,470.24	\$4,151.57	\$2,675.25	\$1,476.32	\$6.08	0.1%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$24.61	\$24.69
Distribution Charge	kWh x	\$0.00088	\$0.00100
Distribution Demand Charge	kW x	\$4.44	\$4.45
Transmission Charge	kWh x	\$0.01617	\$0.01617
Stranded Cost Charge	kWh x	(\$0.00011)	(\$0.00011)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055
 <u>Supplier Services</u>			
Default Service	kWh x	\$0.07134	\$0.07134

Granite State Electric Company
 Proposed July 1, 2009 Distribution Rates
 Calculation of Monthly Typical Bill
 Impact on Rate G-2 Default Service Customers

Hours Use 300

		(1)			(2)			(1) vs (2)	
kW	Monthly kWh	Present Rates			Proposed Rates			Overall Increase (Decrease)	
		Total	Default Service	Retail Delivery	Total	Default Service	Retail Delivery	Amount	%
20	6,000	\$666.19	\$428.04	\$238.15	\$667.19	\$428.04	\$239.15	\$1.00	0.2%
50	15,000	\$1,628.56	\$1,070.10	\$558.46	\$1,630.94	\$1,070.10	\$560.84	\$2.38	0.1%
75	22,500	\$2,430.54	\$1,605.15	\$825.39	\$2,434.07	\$1,605.15	\$828.92	\$3.53	0.1%
100	30,000	\$3,232.51	\$2,140.20	\$1,092.31	\$3,237.19	\$2,140.20	\$1,096.99	\$4.68	0.1%
150	45,000	\$4,836.46	\$3,210.30	\$1,626.16	\$4,843.44	\$3,210.30	\$1,633.14	\$6.98	0.1%

		<u>Present Rates</u>	<u>Proposed Rates</u>
Customer Charge		\$24.61	\$24.69
Distribution Charge	kWh x	\$0.00088	\$0.00100
Distribution Demand Charge	kW x	\$4.44	\$4.45
Transmission Charge	kWh x	\$0.01617	\$0.01617
Stranded Cost Charge	kWh x	(\$0.00011)	(\$0.00011)
System Benefits Charge	kWh x	\$0.00330	\$0.00330
Electricity Consumption Tax	kWh x	\$0.00055	\$0.00055
 <u>Supplier Services</u>			
Default Service	kWh x	\$0.07134	\$0.07134

Granite State Electric Company
d/b/a National Grid
Docket No. DE 09-____
Witness: D.E. Tufts

Schedule DET-4
Revised Tariff Pages

<u>Revised Page</u>	<u>Superseded Page</u>	<u>Rate Schedule</u>
Eighth Revised Page 35	Superseding Seventh Revised Page 35	Rate D
Fourth Revised Page 36	Superseding Third Revised Page 36	Rate D
Fifth Revised Page 37	Superseding Fourth Revised Page 37	Rate D
Tenth Revised Page 39	Superseding Ninth Revised Page 39	Rate D
Eighth Revised Page 40	Superseding Seventh Revised Page 40	Rate D-10
Eighth Revised Page 43	Superseding Seventh Revised Page 43	Rate D-10
Fourth Revised Page 44	Superseding Third Revised Page 44	Rate G-1
Ninth Revised Page 45	Superseding Eighth Revised Page 45	Rate G-1
Fourth Revised Page 50	Superseding Third Revised Page 50	Rate G-2
Fifth Revised Page 55	Superseding Fourth Revised Page 55	Rate G-3
Eighth Revised Page 57	Superseding Seventh Revised Page 57	Rate G-3
Fourth Revised Page 59	Superseding Third Revised Page 59	Rate M
Fifth Revised Page 60	Superseding Fourth Revised Page 60	Rate M
Fifth Revised Page 66	Superseding Fourth Revised Page 66	Rate T
Eighth Revised Page 68	Superseding Seventh Revised Page 68	Rate T
Fourth Revised Page 70	Superseding Third Revised Page 70	Rate V
Eighth Revised Page 72	Superseding Seventh Revised Page 72	Rate V
Fifty-seventh Revised Page 84	Superseding Fifty-sixth Revised Page 84	Summary of Rates

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DOMESTIC SERVICE RATE D

AVAILABILITY

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes. If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate.

CHARACTER OF SERVICE

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

RATE PER MONTH

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge

~~\$4.32~~ per month

Deleted: 4.31

Distribution Energy Charges

Regular Use

~~1.628~~ cents per kilowatt-hour for the first 250 kilowatt-hours
~~4.241~~ cents per kilowatt-hour for the excess of 250 kilowatt-hours

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For customers who received service under the off-peak provisions of the Domestic Service Rate D prior to April 1, 1991, the following rates shall apply:

Off-Peak Use: 16 Hour Control

For all electricity separately metered and delivered between the hours of 11:00 p.m. on each day and 7:00 a.m. on the next day, the price of such electricity shall be:

~~1.557~~ cents per kilowatt-hour if a Customer has installed an electric water heater of a type approved by the Company, and electricity delivered to such water heater is supplied only under this rate.

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Issued by: /s/ Thomas B. King
Thomas B. King
President

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Effective: July 1, 2009

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Off-Peak Use: 6 Hour Control

For all electricity separately metered and subject to the Company's right to limit the operation of the bottom water heating element up to 6 hours a day, the price of such electricity shall be:

1.628 cents per kilowatt-hour if a Customer has installed an electric water heater of a type approved by the Company, and electricity delivered to such water heater is supplied only under this rate.

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Farm use

The availability of the Farm Use Section is limited to those locations which were served under the Farm Use Section of Domestic Rate D, N.H.P.U.C. No. 8 - Electricity immediately prior to the effective date of this rate. For such farm customers, where all electricity is supplied by the Company, the RATE PER MONTH is modified as follows:

2.533 cents per kilowatt-hour for all Regular Use kilowatt-hours in excess of the greater of the following:
(a) 500 kilowatt-hours
(b) 100 kilowatt-hours per kilovolt-ampere of transformer capacity needed to serve the Customer

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APPROVED TYPES OF WATER HEATERS FOR USE UNDER PROVISIONS OF
OFF-PEAK USE CLAUSE OF DOMESTIC RATE D

The specifications for an approved type of water heater for all domestic applications are as follows:

(1) It shall be of standard manufacture and have a capacity and corresponding heating elements as specified below:

Approx. Tank Size Gallons	Rating Top Unit	Rating Bottom Unit
	Watts	Watts
80*	4500	3000
100 to 120	4500	4500
150	5000	5000

*Water heaters of less than 80 gallons with top and bottom heating elements of not more than 4500 watts each may be installed at the Company's option, with the permission of the Regional Executive.

(2) It shall be equipped with a top and bottom heating element, each controlled by a separate thermostatic switch. The thermostatic switch for the top element shall be of a double-throw type so connected as to

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Issued by: /s/ Thomas B. King

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Thomas B. King

Effective: July 1, 2009

Title: _____
President

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permit operation of only one heating element at a time. The thermostat for the bottom element shall be of single-pole, single-throw type. The top and bottom units shall be designed for nominal 240-volt operation.

- (3) It shall have a pressure rating of not less than 250 pounds-per-square-inch test.
- (4) It shall be equipped as purchased with an approved fuel cut-off type temperature limit switch having its temperature sensitive element in contact with tank surface within 12 inches of top and so connected as to completely disconnect the heating elements from the power supply.
- (5) The thermostats for the top and the bottom heating units shall have a range of temperature settings extending from 120 degrees to 170 degrees Fahrenheit with the bottom element setting maintaining approximately a 10-degree differential above the setting of the top element.
- (6) The water heater and the installation thereof shall conform to the National Electric Code, to any State of local requirements, and to those of the Company.

The Customer shall provide a separate circuit for the water heater, of ample capacity and designed for 240-volt operation, to which no equipment other than the water heater shall be connected. Specific water heating connection diagrams for each type of service and rate application are available from the Company.

INTERRUPTIBLE CREDITS

The Company will provide, own and maintain a suitable switch designed to control the operation of selected appliances so that the appliance may operate only during the hours chosen by the Company.

If the Customer has installed an electric water heater of a type approved by the Company, and permits the Company to control the operation of the water heater for the specified number of hours per day and during emergency situations, the Customer will receive the following credit each month:

	Control hrs./day	Credit
IC-1	6	\$4.81
IC-2	16	\$6.42

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 Thomas B. King
 Effective: July 1, 2009 Title: President
 (Issued in Compliance with Order No. _____ in Docket DE 09-_____, dated _____)

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ELECTRIC ASSISTANCE PROGRAM

Eligible customers taking service under this rate will receive a discount as provided on Page 86 of this Tariff of which this rate is a part. Eligibility shall be determined in accordance with the Electric Assistance Program Provision on Page 86 of this Tariff. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

SYSTEM BENEFITS CHARGE ADJUSTMENT PROVISION

Customers taking service under this rate will be charged a System Benefits Charge as provided on Page 77 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

MINIMUM CHARGE

~~\$4.32~~ per month Customer Charge.

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BIMONTHLY BILLING

The Company reserves the right to read meters and render bills on a bimonthly basis. When bills are rendered bimonthly, the Customer Charge, the kilowatt-hours stated in each block and the Minimum Charge shall be multiplied by two.

TERMS OF PAYMENT

The above rate is net, billed monthly or bimonthly and payable upon presentation of the bill.

TERMS AND CONDITIONS

The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate.

Issued: _____

Issued by: /s/ Thomas B. King
Thomas B. King

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Effective: July 1, 2009

Title: _____
President

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DOMESTIC SERVICE RATE D-10
OPTIONAL PEAK LOAD PRICING RATE

AVAILABILITY

Retail Delivery Service under this rate is available for all domestic purposes in an individual private dwelling or an individual apartment and for farm purposes to selected customers presently served under Rate D.

If electricity is delivered through more than one meter, the charge for electricity delivered through each meter shall be computed separately under this rate. The availability of this rate will be subject to the Company's ability to obtain the necessary meters and to render such service.

CHARACTER OF SERVICE

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location.

RATE PER MONTH

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge

~~\$7.42~~ month

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Distribution Energy Charges

On-Peak ~~4.707~~ cents per kilowatt-hour

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Off-Peak 0.000 cents per kilowatt-hour

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

Off-Peak hours will be from 9:00 p.m. to 8:00 a.m. daily Monday through Friday, and all day on Saturdays, Sundays, and holidays.

The holidays will be: New Year's Day, President's Day, Memorial Day, Independence Day, Columbus Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day. All holidays will be the nationally observed day.

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Issued by: /s/ Thomas B. King
Thomas B. King

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Effective: ~~July 1, 2009~~

Title: _____
President

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(Issued in Compliance with Order No. _____, in Docket DE 09- _____ dated _____)

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ELECTRIC ASSISTANCE PROGRAM

Eligible customers taking service under this rate will receive a discount as provided on Page 86 of this Tariff of which this rate is a part. Eligibility shall be determined in accordance with the Electric Assistance Program Provision on Page 86 of this Tariff. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

SYSTEM BENEFITS CHARGE ADJUSTMENT PROVISION

Customers taking service under this rate will be charged a System Benefits Charge as provided on Page 77 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

MINIMUM CHARGE

\$7.42 per month Customer Charge

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TERMS OF PAYMENT

The above rate is net, billed monthly or bimonthly and payable upon presentation of the bill.

TERMS OF AGREEMENT

The agreement for service under this rate will continue for an initial term of one year if electricity can be properly delivered to a Customer without an uneconomic expenditure by the Company. The agreement may be terminated at any time on or after the expiration date of the initial term by twelve (12) months prior written notice.

TERMS AND CONDITIONS

The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate.

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Issued by: /s/ Thomas B. King
Thomas B. King

Effective: July 1, 2009

Title: _____
President

(Issued in Compliance with Order No. _____ in Docket DE 09- dated _____)

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GENERAL SERVICE TIME-OF-USE RATE G-1

AVAILABILITY

Retail Delivery Service under this rate is available for all purposes except resale, subject to the provisions of this section. A Customer will take delivery service on this rate if the Company estimates that its average use will be greater than or equal to 200 kW of Demand.

A Customer may be transferred from rate G-1 at its request or at the option of the Company if the customer's 12 month average monthly demand is less than 180 kW of Demand for 3 consecutive months.

If electricity is delivered through more than one meter, except at the Company's option, the charge for electricity delivered through each meter shall be computed separately under this rate. If any electricity is delivered hereunder at a given location, then all electricity delivered by the Company at such location shall be furnished hereunder, except such electricity as may be delivered under the provisions of the Limited Commercial Space Heating Rate V.

The actual delivery of service and the rendering of bills under this rate is contingent upon the installation of the necessary time-of-use metering equipment by the Company; subject to both the availability of such meters from the Company's supplier and the conversion or installation procedures established by the Company.

All customers served on this rate must elect to take their total electric service under the time-of-use metering installation as approved by the Company. If delivery is through more than one meter, except at the Company's option, the Monthly Charge for service through each meter shall be computed separately under this rate.

CHARACTER OF SERVICE

Service supplied under this rate will be 60 cycle, three-phase alternating current normally at a nominal voltage of 120/208, 277/480, 2400, 4160, 4800, 7200, 13,200 and 13,800 volts.

All voltages are not available in every area.

RATE PER MONTH

The Rate Per Month will be the sum of the applicable Customer, Demand and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Customer Charge

\$92.25 per month.

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Issued by: /s/ Thomas B. King

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Effective: July 1, 2009

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Deleted: Seventh

Distribution Demand Charge

~~\$4.03~~ per kW of Peak Hours Demand per Month

Deleted: 4.02

Distribution Energy Charges

Peak Hours Use 0.133 cents per Kilowatt-hour

Off-Peak Hours Use 0.000 cents per Kilowatt-hour

Peak hours will be from 8:00 a.m. to 9:00 p.m. daily on Monday through Friday excluding holidays.

Off-Peak hours will be from 9:00 p.m. to 8:00 a.m. daily Monday through Friday, and all day on Saturdays, Sundays, and holidays.

The holidays will be: New Year's Day, President's Day, Memorial Day, Independence Day, Columbus Day, Labor Day, Veteran's Day, Thanksgiving Day and Christmas Day. All holidays will be the nationally observed day.

TRANSMISSION SERVICE COST ADJUSTMENT

Transmission service is available to all retail Customers taking service under this rate. For those Customers, the Transmission Energy Charge shall be calculated in accordance with the Company's Transmission Service Cost Adjustment Provision as provided on Page 79 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

STRANDED COST ADJUSTMENT

All energy billed under this rate is subject to a Stranded Cost Energy Charge which rate shall be adjusted from time to time in accordance with the Company's Stranded Cost Adjustment Provision as provided on Page 80 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

Issued: _____

Issued by: /s/ Thomas B. King

Deleted: April 10, 2009

Effective: July 1, 2009

Title: Thomas B. King
President

Deleted: March 8, 2009

(Issued in Compliance with Order No. _____, in Docket DE 09- _____ dated _____)

Deleted: Secretarial Letter dated April 8, 2009

Deleted: DT 08-016

Deleted: Third
Deleted: Second

GENERAL LONG HOUR SERVICE RATE G-2

AVAILABILITY

Retail Delivery Service under this rate is available for all purposes except resale, subject to the provisions of this section. A Customer will take delivery service on this rate if the Company estimates that its average use will be greater than or equal to 20 kW of Demand but is less than 200 kW of Demand. If electricity is delivered through more than one meter, except at the Company's option, the charge for electricity delivered through each meter shall be computed separately under this rate.

A customer may be transferred from rate G-2 at its request or at the option of the Company if the customer's twelve (12) month average monthly demand is less than 18 kW of demand for three consecutive months.

If any electricity is delivered hereunder at a given location, then all electricity delivered by the Company at such location shall be furnished hereunder, except such electricity as may be delivered under the provisions of the Limited Commercial Space Heating Rate V.

CHARACTER OF SERVICE

Service supplied under this rate will be 60 cycle, three-phase alternating current normally at a nominal voltage of 120/208, 277/480, 2400, 4160, 4800, 7200, 13,200 and 13,800 volts.

All voltages are not available in every area.

RATE PER MONTH

The Rate Per Month will be the sum of the applicable Customer, Demand and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Customer Charge

~~\$24.69~~ per month.

Deleted: 24.61

Distribution Demand Charge

~~\$4.45~~ per kilowatt of Demand per Month

Deleted: 4.44

Distribution Energy Charge

0.031 cents per kilowatt-hour

Issued: _____

Issued by: /s/ Thomas B. King

Deleted: June 30, 2008

Effective: July 1, 2009

Title: Thomas B. King
President

Deleted: July 1, 2008

(Issued in Compliance with Order No. _____, in Docket DE 09-_____, dated _____)

Deleted: 24,868

Deleted: 08-072

Deleted: June 27, 2008

Deleted: Fourth
Deleted: Third

GENERAL SERVICE RATE G-3

AVAILABILITY

Retail Delivery Service under this rate is available for all purposes except for resale. A Customer will take delivery service on this rate if the Company estimates that its average use will be less than 20 kW of demand. If electricity is delivered through more than one meter, except at the Company's option, the charge for electricity delivered through each meter shall be computed separately under this rate.

CHARACTER OF SERVICE

Service supplied under this rate will be 60 cycle, alternating current either:

- (a) Single-phase normally three-wire at a nominal voltage of 120/240 volts.
- (b) Three-phase secondary normally at a nominal voltage of 120/208, or 277/480 volts.
- (c) Three-phase primary normally at a nominal voltage of 2400, 4160, 4800, 7200, 13,200 or 13,800 volts.

All voltages are not available in every area.

RATE PER MONTH

The rate per month will be the sum of the Customer and Energy Charges subject to the adjustments in this tariff:

Rates for Retail Delivery Service

Customer Charge

~~\$5.46~~ per month.

Deleted: 5.45

Distribution Energy Charge

~~3.051~~ cents per kilowatt-hour.

Deleted: 3.041

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Issued by: /s/ Thomas B. King

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President

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Deleted: 24,868

Deleted: 08-072

Deleted: June 27, 2008

Deleted: Seventh

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SYSTEM BENEFITS CHARGE ADJUSTMENT PROVISION

Customers taking service under this rate will be charged a System Benefits Charge as provided on Page 77 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

MINIMUM CHARGE

~~\$5.46~~ per Month Customer Charge

Deleted: 5.45

However, if the KVA transformer capacity needed to serve a customer exceeds 25 KVA, the minimum charge will be increased by \$1.61 for each KVA in excess of 25 KVA.

BIMONTHLY BILLING

The Company reserves the right to read meters and render bills on a bimonthly basis. When bills are rendered bimonthly, the Customer Charge and the Minimum Charge shall be multiplied by two.

TERMS OF PAYMENT

The above rate is net, billed monthly or bimonthly and payable upon presentation of the bill.

TERM OF AGREEMENT

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional on-site, non-emergency generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

Issued: _____

Issued by: /s/ Thomas B. King
Thomas B. King

Deleted: June 30, 2008

Effective: July 1, 2009

Title: _____
President

Deleted: July 1, 2008

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Deleted: 24,868

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Deleted: June 27, 2008

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OUTDOOR LIGHTING SERVICE RATE M

AVAILABILITY

Public Lighting

Available for Street or Highway lighting to any town, city or fire district.

Installations on limited access highways and the access and egress ramps thereto are subject to the Special Rate Conditions of this tariff.

Private Lighting

Available to private customers for outdoor lighting where necessary fixtures can be supported on existing poles and where such service can be supplied from existing secondary distribution facilities.

In special circumstances outlined in the pole and accessory section below, the Company will install a wooden pole.

RATE

Luminaire Charge

<u>Size of Street Light Lumens</u>	<u>Wattage</u>	<u>Lamp Code</u>	<u>Annual Distribution Price Per Unit</u>
<u>Sodium Vapor</u>			
4,000	50	70	\$50.18
9,600	100	72	\$60.82
27,500	250	74	\$106.80
50,000	400	75	\$139.15
9,600(Post Top)	100	79	\$70.05
27,500(Flood)	250	77	\$107.75
50,000(Flood)	400	78	\$148.75

Deleted: 50.00
 Deleted: 60.61
 Deleted: 106.42
 Deleted: 138.66
 Deleted: 69.80
 Deleted: 107.37
 Deleted: 148.22
 Deleted: 66.74

Incandescent

1,000	103	10	\$66.98
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Issued: ▾

Issued by: /s/ Thomas B. King

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Effective: July 1, 2009

Title: Thomas B. King
President

Deleted: July 1, 2008

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<u>Size of Street Light Lumens</u>	<u>Lamp Wattage</u>	<u>Code</u>	<u>Annual Distribution Price Per Unit</u>
<u>Mercury Vapor</u>			
4,000	100	03	\$48.48
8,000	175	04	\$58.95
22,000	400	05	\$111.46
63,000	1,000	06	\$211.48
22,000(Flood)	400	23	\$123.28
63,000(Flood)	1,000	24	\$212.87

Deleted: 48.31

Deleted: 58.74

Deleted: 111.07

Deleted: 210.73

Deleted: 122.84

Deleted: 212.11

No further installation or relocation of Incandescent and Mercury Vapor lights will be made after the effective date of this rate, unless specific permission is received from the Commission's Chief Engineer.

POLE AND ACCESSORY CHARGE

An additional annual charge enumerated below will be applied where the Company is requested to furnish a suitable wood pole for the sole purpose of supporting a luminaire. If at a future date the pole is used for any purpose approved by the Company in addition to supporting a street and/or floodlight luminaire, the pole charge will be terminated. This pole may not be more than one (1) span from the existing secondary service located along a roadway or thoroughfare, and must be reachable for mechanized equipment.

<u>Overhead Service</u>	<u>Code</u>	<u>Annual Price Per Unit</u>
Wood Poles	P	\$59.13
<u>Underground Service</u>		
<u>Non-Metallic</u>		
Fiber glass wo/Base	R	\$61.22
Fiber glass w/Base <25 ft.	C	\$103.82
Fiber glass w/Base >=25 ft.	D	\$173.45
Metal Poles wo/Base	F	\$123.80
Metal Poles w/Base	T	\$149.18

Deleted: 58.92

Deleted: 61.01

Deleted: 103.45

Deleted: 172.83

Deleted: 123.36

Deleted: 148.65

Issued: _____

Issued by: /s/ Thomas B. King

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Deleted: June 30, 2008

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Title: _____
 President

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Deleted: 24,868

Deleted: 08-072

Deleted: June 27, 2008

Deleted: Fourth

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RATE PER MONTH

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Customer Charge

~~\$5.59~~ per Month

Deleted: 5.57

Distribution Energy Charge

~~1.994~~ cents per kilowatt-hour

Deleted: 1.987

INTERRUPTIBLE CREDITS

The Company will provide, own and maintain a suitable switch designed to control the operation of selected appliances so that the appliance may operate only during the hours chosen by the Company.

If the Customer has installed an electric water heater of a type approved by the Company, and permits the Company to control the operation of the water heater for the specified number of hours per day and during emergency situations, the Customer will receive the following credit each month:

	<u>Control hrs./day</u>	<u>Credit</u>
IC-1	6	\$4.81
IC-2	16	\$6.42

Deleted: 4.80

Deleted: 6.40

TRANSMISSION SERVICE COST ADJUSTMENT

Transmission service is available to all retail Customers taking service under this rate. For those Customers, the Transmission Energy Charge shall be calculated in accordance with the Company's Transmission Service Cost Adjustment Provision as provided on Page 79 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

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Thomas B. King

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Title: President

Deleted: 24,868

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Deleted: 08-072

Deleted: June 27, 2008

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ELECTRIC ASSISTANCE PROGRAM

Eligible customers taking service under this rate will receive a discount as provided on Page 86 of this Tariff of which this rate is a part. Eligibility shall be determined in accordance with the Electric Assistance Program Provision on Page 86 of this Tariff. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

SYSTEM BENEFITS CHARGE ADJUSTMENT PROVISION

Customers taking service under this rate will be charged a System Benefits Charge as provided on Page 77 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

MINIMUM CHARGE

~~\$5.59~~ per Month Customer Charge

Deleted: 5.57

BIMONTHLY BILLING

The Company reserves the right to read meters and render bills on a bimonthly basis. When bills are rendered bimonthly, the Minimum Charge shall be multiplied by two.

TERMS OF PAYMENT

The above rate is net, billed monthly or bimonthly and payable upon presentation of the bill. However, customers may elect in writing to pay on a Budget Billing Plan available on application to the Company.

Issued: _____

Issued by: /s/ Thomas B. King
Thomas B. King

Deleted: June 30, 2008

Effective: July 1, 2009

Title: _____
President

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Deleted: 24,868

Deleted: 08-072

Deleted: June 27, 2008

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LIMITED COMMERCIAL SPACE HEATING RATE V

AVAILABILITY

The availability of this rate is limited to the following customers: 1) those who immediately prior to the effective date of this rate were served under Commercial Space Heating Rate V, N.H.P.U.C. No. 8 - Electricity and are presently receiving service under this rate, and 2) those who requested service under this rate prior to May 1, 1982.

To such customers, delivery service under this Limited Commercial Space Heating Rate V is available for space heating in buildings other than residences, where the Customer's premises are heated exclusively by electricity.

Air conditioning used in addition to electric space heating at this same location may also be served under this rate, provided that electricity is the sole source of energy, and all the requirements for these purposes are metered hereunder.

Electric space heating equipment shall be permanently installed and be of a type and size approved by the Company.

Service under this rate will be metered separately.

Any other use of electricity must be taken under an applicable general service rate.

This rate is not available to seasonal customers, or for resale or auxiliary service.

CHARACTER OF SERVICE

Service supplied under this rate will be single phase, 60 cycle, alternating current, normally three-wire service at a nominal voltage of 120/240 volts or three-wire 120/208 volts, whichever is available at the location, or other voltages where available by special arrangement with the Company.

RATE PER MONTH

The rate per month will be the sum of the applicable Customer and Energy Charges subject to the adjustments in this tariff.

Rates for Retail Delivery Service

Minimum Charge
~~5.84~~ per Month

~~Deleted: 5.82~~

Distribution Energy Charge
~~2.816~~ cents per kilowatt-hour

~~Deleted: 2.806~~

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Issued by: /s/ Thomas B. King
Thomas B. King

~~Deleted: June 30, 2008~~

Effective: July 1, 2009

Title: President

~~Deleted: July 1, 2008~~

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~~Deleted: 24,868~~

~~Deleted: 08-072~~

~~Deleted: June 27, 2008~~

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Deleted: Sixth

SYSTEM BENEFITS CHARGE ADJUSTMENT PROVISION

Customers taking service under this rate will be charged a System Benefits Charge as provided on Page 77 of the Tariff of which this rate is a part. A summary of energy charges in effect, with all adjustments, is provided on Page 84 of this Tariff.

MINIMUM CHARGE

~~\$5.84~~ per Month Customer Charge

Deleted: 5.82

TERMS OF PAYMENT

The above rate is net, billed monthly and payable upon presentation of the bill. However, customers may elect in writing to pay on a Budget Billing Plan available on application to the Company.

TERM OF AGREEMENT

A Customer served under this rate must provide the Company with one-year prior written notice before installing additional on-site, non-emergency generation for its own use. This notice provision shall be waived with respect to the installation of on-site non-emergency generation from renewable energy resources. Renewable energy resources shall mean fuel cells (including natural gas powered fuel cells), and emerging power generation technologies that produce electricity from wind energy, solar energy, small-scale hydro power, ocean power, landfill gas, sustainably managed biomass, and future clean renewable technologies.

TERMS AND CONDITIONS

The Company's Terms and Conditions in effect from time to time, where not inconsistent with any specific provisions hereof, are a part of this rate.

Issued: _____

Issued by: /s/ Thomas B. King
Thomas B. King

Effective: July 1, 2009

Title: President

(Issued in Compliance with Order No. _____, in Docket No. DE 09-_____, dated _____)

Deleted: June 30, 2008
Deleted: July 1, 2008
Deleted: 24,868
Deleted: 08-072
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GRANITE STATE ELECTRIC COMPANY
 RATES EFFECTIVE JULY 1, 2009
 FOR USAGE ON AND AFTER JULY 1, 2009

Rate	Blocks	Distribution Charge (1), (2), (3)	Electricity Consumption Tax	Transmission Charge	Systems Benefits Charge	Stranded Cost Charge	Total Retail Delivery Services
D	Customer Charge	\$4.32					\$4.32
	1st 250 kWh	\$0.01680	\$0.00055	\$0.01679	\$0.00330	(\$0.00010)	\$0.03734
	Excess 250 kWh	\$0.04293	\$0.00055	\$0.01679	\$0.00330	(\$0.00010)	\$0.06347
	Off Peak kWh	\$0.01609	\$0.00055	\$0.01679	\$0.00330	(\$0.00010)	\$0.03663
	Farm kWh	\$0.02585	\$0.00055	\$0.01679	\$0.00330	(\$0.00010)	\$0.04639
	D-6 kWh	\$0.01680	\$0.00055	\$0.01679	\$0.00330	(\$0.00010)	\$0.03734
D-10	Customer Charge	\$7.42					\$7.42
	On Peak kWh	\$0.04768	\$0.00055	\$0.01548	\$0.00330	(\$0.00012)	\$0.06689
	Off Peak kWh	\$0.00061	\$0.00055	\$0.01548	\$0.00330	(\$0.00012)	\$0.01982
G-1	Customer Charge	\$92.25					\$92.25
	Demand Charge	\$4.03					\$4.03
	On Peak kWh	\$0.00202	\$0.00055	\$0.01454	\$0.00330	(\$0.00010)	\$0.02031
	Off Peak kWh	\$0.00069	\$0.00055	\$0.01454	\$0.00330	(\$0.00010)	\$0.01898
G-2	Customer Charge	\$24.69					\$24.69
	Demand Charge	\$4.45					\$4.45
	All kWh	\$0.00100	\$0.00055	\$0.01617	\$0.00330	(\$0.00011)	\$0.02091
G-3	Customer Charge	\$5.46					\$5.46
	All kWh	\$0.03103	\$0.00055	\$0.01568	\$0.00330	(\$0.00011)	\$0.05045
M	All kWh see tariff for luminaires & pole charges	\$0.00069	\$0.00055	\$0.01164	\$0.00330	(\$0.00008)	\$0.01610
T	Customer Charge	\$5.59					\$5.59
	All kWh	\$0.02056	\$0.00055	\$0.01794	\$0.00330	(\$0.00010)	\$0.04225
V	Minimum Charge	\$5.84					\$5.84
	All kWh	\$0.02876	\$0.00055	\$0.01797	\$0.00330	(\$0.00015)	\$0.05043

- (1) Distribution Energy Charges include a Business Profits Tax Surcharge of \$0.00057 per kWh for usage on and after 8/1/01
 (2) Distribution Energy Charges include the following credits per kWh in accordance with page 93 of the tariff for usage on and after 5/1/06

Rate Class	Credit per kWh
D	(\$0.00017)
D-10	(\$0.00008)
G-3	(\$0.00017)
T	(\$0.00007)
V	(\$0.00009)

- (3) Distribution Energy Charges include a Reliability Enhancement Program and Vegetation Management Plan Adjustment Factor of \$0.00012

System Benefits Charge-Energy Efficiency	\$0.00180	Effective 6/1/02, usage on and after
System Benefits Charge-Statewide Energy Assistance Program	\$0.00150	Effective 10/1/08, usage on and after
Total System Benefits Charge	\$0.00330	
Transmission Cost Adjustment Factor	various	Effective 1/1/09, usage on and after
Stranded Cost Adjustment Factor	various	Effective 1/1/09, usage on and after
Default Service Charge		
Residential & Small Commercial (D, D-10, G-3, M, T, V)	\$0.06891	Effective 5/1/09, usage on and after
Medium / Large Commercial & Industrial (G-1, G-2)	\$0.06105	Effective 5/1/09, usage on and after
	\$0.06523	Effective 6/1/09, usage on and after
	\$0.07134	Effective 7/1/09, usage on and after
Electricity Consumption Tax	\$0.00055	Effective 5/1/01, usage on and after

Issued: _____ Issued by: /s/ Thomas B. King
 Effective: July 1, 2009 Title: Thomas B. King
President

(Issued in Compliance with Order No. _____ in Docket No. DE 09-____ dated _____)