

NORTHERN UTILITIES, INC.

Calculation of Temporary Rate Adjustment

Temporary Rates

Revenue Requirement: \$ 1,600,000

Test Year WN Sales (therm): 69,908,226

Source: Schedule DLG/PMN 1G-8,
p. 1 of 8 (Bates 1063) Column F, Line 38

Temporary Rate Factors \$ 0.0229/therm

State of New Hampshire
 Public Utilities Commission
 Concord
Report of Proposed Rate Changes (\$000)
 Temporary Rates

Northern Utilities, Inc. -- New Hampshire Division
 Tariff No. 12

Date Filed: July 10, 2017
 Effective Date: August 1, 2017

(A) <u>Class of Service</u>	(B) <u>Effect of Proposed Change</u>	(C) <u>Average Number of Customers</u>	(D) <u>Total Current Revenue</u>	(E) <u>Proposed Distribution Revenue Changes</u>	(F) <u>Total Revenue Under Proposed Rates</u>	(G) <u>Proposed Change Revenue</u>	(H) <u>Percent Change Revenue</u>
Residential Heating - R5	Increase	22,553	\$27,432	\$381	\$27,813	\$381	1.4%
Residential Low Income Heating - R10	Increase	1,004	\$751	\$15	\$766	\$15	2.0%
Residential Non-Heating - R6	Increase	1,388	\$617	\$5	\$623	\$5	0.9%
Subtotal Residential	Increase	24,945	\$28,800	\$402	\$29,202	\$402	1.4%
Commercial & Industrial Low Annual & High Winter Use G-40	Increase	4,910	\$12,560	\$214	\$12,774	\$214	1.7%
Commercial & Industrial Medium Annual & High Winter Use G-41	Increase	689	\$14,003	\$301	\$14,304	\$301	2.2%
Commercial & Industrial High Annual & High Winter Use G-42	Increase	38	\$6,440	\$155	\$6,595	\$155	2.4%
Commercial & Industrial Low Annual & Low Winter Use G-50	Increase	809	\$1,876	\$38	\$1,915	\$38	2.1%
Commercial & Industrial Medium Annual & Low Winter Use G-51	Increase	259	\$3,776	\$103	\$3,879	\$103	2.7%
Commercial & Industrial High Annual & Low Winter Use G-52	Increase	32	\$11,980	\$388	\$12,368	\$388	3.2%
Subtotal Commercial & Industrial	Increase	6,736	\$50,636	\$1,199	\$51,834	\$1,199	2.4%
Total	Increase	31,682	\$79,436	\$1,601	\$81,037	\$1,601	2.0%

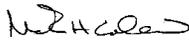
(D) Revenue under previous permanent seasonal rates assuming all customers take Company supplied gas service.

(E) Distribution revenue change reflecting temporary rate adjustment of \$0.0229/therm only.

(F) Column D + Column E

(G) Column F - Column D

(H) Column G / Column D

Signed by: 
 Title: Sr. Vice President

Northern Utilities - NH Division
 Residential Heating Customer - R5
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	8.26	\$33.15	\$33.34	\$0.19	0.6%
20.0%	26.13	\$58.62	\$59.22	\$0.60	1.0%
30.0%	41.73	\$80.88	\$81.83	\$0.96	1.2%
40.0%	56.24	\$100.87	\$102.16	\$1.29	1.3%
50.0%	70.90	\$120.11	\$121.73	\$1.62	1.4%
60.0%	86.45	\$140.53	\$142.51	\$1.98	1.4%
70.0%	104.48	\$164.19	\$166.58	\$2.39	1.5%
80.0%	126.94	\$193.68	\$196.58	\$2.91	1.5%
90.0%	158.18	\$234.69	\$238.31	\$3.62	1.5%
100.0%	243.66	\$346.90	\$352.48	\$5.58	1.6%
Average	92.30	\$148.20	\$150.31	\$2.11	1.4%
<u>Distribution Only</u>					
10.0%	8.26	\$26.52	\$26.70	\$0.19	0.7%
20.0%	26.13	\$37.66	\$38.26	\$0.60	1.6%
30.0%	41.73	\$47.39	\$48.35	\$0.96	2.0%
40.0%	56.24	\$55.74	\$57.03	\$1.29	2.3%
50.0%	70.90	\$63.22	\$64.84	\$1.62	2.6%
60.0%	86.45	\$71.16	\$73.14	\$1.98	2.8%
70.0%	104.48	\$80.35	\$82.75	\$2.39	3.0%
80.0%	126.94	\$91.82	\$94.73	\$2.91	3.2%
90.0%	158.18	\$107.76	\$111.38	\$3.62	3.4%
100.0%	243.66	\$151.38	\$156.96	\$5.58	3.7%
Average	92.30	\$74.14	\$76.25	\$2.11	2.9%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$21.36 (1)	Customer Charge (\$/customer)		\$21.36 (3)
Distribution Charge - First 50 therms (\$/thm)		\$0.6239 (1)	Distribution Charge - First 50 therms (\$/thm)		\$0.6468 (3)
Distribution Charge - Excess 50 therms (\$/thm)		\$0.5103 (1)	Distribution Charge - Excess 50 therms (\$/thm)		\$0.5332 (3)
LDAC (\$/thm)		\$0.0489 (1)	LDAC (\$/thm)		\$0.0489 (1)
COG (\$/thm)		\$0.7535 (2)	COG (\$/thm)		\$0.7535 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 Residential Heating Customer - R5
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	2.61	\$23.91	\$23.97	\$0.06	0.2%
30.0%	6.85	\$28.07	\$28.22	\$0.16	0.6%
40.0%	10.34	\$31.48	\$31.72	\$0.24	0.8%
50.0%	13.64	\$34.71	\$35.02	\$0.31	0.9%
60.0%	17.10	\$38.09	\$38.49	\$0.39	1.0%
70.0%	21.29	\$42.20	\$42.69	\$0.49	1.2%
80.0%	27.06	\$47.85	\$48.47	\$0.62	1.3%
90.0%	37.40	\$57.97	\$58.83	\$0.86	1.5%
100.0%	75.30	\$95.07	\$96.79	\$1.72	1.8%
Average	21.16	\$42.07	\$42.56	\$0.48	1.2%
<u>Distribution Only</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	2.61	\$22.78	\$22.84	\$0.06	0.3%
30.0%	6.85	\$25.09	\$25.25	\$0.16	0.6%
40.0%	10.34	\$26.99	\$27.23	\$0.24	0.9%
50.0%	13.64	\$28.79	\$29.10	\$0.31	1.1%
60.0%	17.10	\$30.68	\$31.07	\$0.39	1.3%
70.0%	21.29	\$32.96	\$33.45	\$0.49	1.5%
80.0%	27.06	\$36.11	\$36.73	\$0.62	1.7%
90.0%	37.40	\$41.74	\$42.60	\$0.86	2.1%
100.0%	75.30	\$62.39	\$64.12	\$1.72	2.8%
Average	21.16	\$32.89	\$33.37	\$0.48	1.5%

Present Rates

Customer Charge (\$/customer)	\$21.36 (1)
Distribution Charge - First 50 therms (\$/thm)	\$0.5449 (1)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.5449 (1)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (2)

Proposed Rates

Customer Charge (\$/customer)	\$21.36 (3)
Distribution Charge - First 50 therms (\$/thm)	\$0.5678 (3)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.5678 (3)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 Residential Low Income Heating Customer - R10
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Present Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	13.42	\$22.66	\$22.96	\$0.31	1.4%
20.0%	30.86	\$41.00	\$41.71	\$0.71	1.7%
30.0%	43.75	\$54.57	\$55.57	\$1.00	1.8%
40.0%	55.35	\$66.52	\$67.79	\$1.27	1.9%
50.0%	66.76	\$78.01	\$79.54	\$1.53	2.0%
60.0%	79.29	\$90.63	\$92.44	\$1.82	2.0%
70.0%	93.47	\$104.90	\$107.04	\$2.14	2.0%
80.0%	112.63	\$124.18	\$126.76	\$2.58	2.1%
90.0%	140.35	\$152.08	\$155.29	\$3.21	2.1%
100.0%	207.60	\$219.77	\$224.52	\$4.75	2.2%
Average	84.35	\$95.71	\$97.65	\$1.93	2.0%

<u>Distribution Only</u>					
10.0%	13.42	\$11.89	\$12.20	\$0.31	2.6%
20.0%	30.86	\$16.24	\$16.95	\$0.71	4.4%
30.0%	43.75	\$19.46	\$20.46	\$1.00	5.1%
40.0%	55.35	\$22.11	\$23.38	\$1.27	5.7%
50.0%	66.76	\$24.44	\$25.97	\$1.53	6.3%
60.0%	79.29	\$27.00	\$28.81	\$1.82	6.7%
70.0%	93.47	\$29.89	\$32.03	\$2.14	7.2%
80.0%	112.63	\$33.80	\$36.38	\$2.58	7.6%
90.0%	140.35	\$39.46	\$42.67	\$3.21	8.1%
100.0%	207.60	\$53.19	\$57.94	\$4.75	8.9%
Average	84.35	\$28.03	\$29.96	\$1.93	6.9%

Present Rates

Customer Charge (\$/customer)	\$8.54 (1)
Distribution Charge - First 50 therms (\$/thm)	\$0.2496 (1)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.2041 (1)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.7535 (2)

Proposed Rates

Customer Charge (\$/customer)	\$8.54 (3)
Distribution Charge - First 50 therms (\$/thm)	\$0.2725 (3)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.2270 (3)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.7535 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 Residential Low Income Heating Customer - R10
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Present Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.09	\$8.60	\$8.60	\$0.00	0.0%
20.0%	3.46	\$10.80	\$10.88	\$0.08	0.7%
30.0%	7.52	\$13.44	\$13.62	\$0.17	1.3%
40.0%	10.44	\$15.34	\$15.58	\$0.24	1.6%
50.0%	13.36	\$17.25	\$17.56	\$0.31	1.8%
60.0%	16.33	\$19.18	\$19.56	\$0.37	1.9%
70.0%	20.10	\$21.64	\$22.10	\$0.46	2.1%
80.0%	25.06	\$24.88	\$25.45	\$0.57	2.3%
90.0%	34.33	\$30.92	\$31.70	\$0.79	2.5%
100.0%	64.97	\$50.89	\$52.38	\$1.49	2.9%
Average	19.57	\$21.29	\$21.74	\$0.45	2.1%
<u>Distribution Only</u>					
10.0%	0.09	\$8.56	\$8.56	\$0.00	0.0%
20.0%	3.46	\$9.29	\$9.37	\$0.08	0.9%
30.0%	7.52	\$10.18	\$10.35	\$0.17	1.7%
40.0%	10.44	\$10.81	\$11.05	\$0.24	2.2%
50.0%	13.36	\$11.45	\$11.76	\$0.31	2.7%
60.0%	16.33	\$12.10	\$12.47	\$0.37	3.1%
70.0%	20.10	\$12.92	\$13.38	\$0.46	3.6%
80.0%	25.06	\$14.00	\$14.57	\$0.57	4.1%
90.0%	34.33	\$16.02	\$16.81	\$0.79	4.9%
100.0%	64.97	\$22.70	\$24.18	\$1.49	6.6%
Average	19.57	\$12.80	\$13.25	\$0.45	3.5%

Present Rates

Customer Charge (\$/customer)	\$8.54 (1)
Distribution Charge - First 50 therms (\$/thm)	\$0.2179 (1)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.2179 (1)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (2)

Proposed Rates

Customer Charge (\$/customer)	\$8.54 (3)
Distribution Charge - First 50 therms (\$/thm)	\$0.2408 (3)
Distribution Charge - Excess 50 therms (\$/thm)	\$0.2408 (3)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 Residential Non-Heating Customer - R6
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Present Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	0.53	\$22.01	\$22.02	\$0.01	0.1%
30.0%	2.32	\$24.20	\$24.25	\$0.05	0.2%
40.0%	5.40	\$27.97	\$28.09	\$0.12	0.4%
50.0%	9.21	\$32.63	\$32.84	\$0.21	0.6%
60.0%	12.75	\$36.97	\$37.26	\$0.29	0.8%
70.0%	16.55	\$41.61	\$41.99	\$0.38	0.9%
80.0%	21.45	\$47.61	\$48.10	\$0.49	1.0%
90.0%	30.58	\$58.79	\$59.49	\$0.70	1.2%
100.0%	74.59	\$112.64	\$114.35	\$1.71	1.5%
Average	17.34	\$42.58	\$42.97	\$0.40	0.9%

<u>Distribution Only</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	0.53	\$21.58	\$21.59	\$0.01	0.1%
30.0%	2.32	\$22.34	\$22.39	\$0.05	0.2%
40.0%	5.40	\$23.63	\$23.76	\$0.12	0.5%
50.0%	9.21	\$25.24	\$25.45	\$0.21	0.8%
60.0%	12.75	\$26.73	\$27.03	\$0.29	1.1%
70.0%	16.55	\$28.33	\$28.71	\$0.38	1.3%
80.0%	21.45	\$30.40	\$30.89	\$0.49	1.6%
90.0%	30.58	\$34.25	\$34.95	\$0.70	2.0%
100.0%	74.59	\$52.79	\$54.50	\$1.71	3.2%
Average	17.34	\$28.67	\$29.06	\$0.40	1.4%

Present Rates

Customer Charge (\$/customer)	\$21.36 (1)
Distribution Charge - First 10 therms (\$/thm)	\$0.4214 (1)
Distribution Charge - Excess 10 therms (\$/thm)	\$0.4214 (1)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.7535 (2)

Proposed Rates

Customer Charge (\$/customer)	\$21.36 (3)
Distribution Charge - First 10 therms (\$/thm)	\$0.4443 (3)
Distribution Charge - Excess 10 therms (\$/thm)	\$0.4443 (3)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.7535 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 Residential Non-Heating Customer - R6
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Present Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	0.84	\$22.08	\$22.10	\$0.02	0.1%
30.0%	2.36	\$23.37	\$23.43	\$0.05	0.2%
40.0%	4.47	\$25.18	\$25.28	\$0.10	0.4%
50.0%	6.84	\$27.21	\$27.37	\$0.16	0.6%
60.0%	8.97	\$29.04	\$29.24	\$0.21	0.7%
70.0%	11.19	\$30.93	\$31.19	\$0.26	0.8%
80.0%	13.87	\$33.22	\$33.54	\$0.32	1.0%
90.0%	18.00	\$36.76	\$37.17	\$0.41	1.1%
100.0%	36.07	\$52.21	\$53.04	\$0.83	1.6%
Average	10.26	\$30.14	\$30.37	\$0.23	0.8%
<u>Distribution Only</u>					
10.0%	0.00	\$21.36	\$21.36	\$0.00	0.0%
20.0%	0.84	\$21.71	\$21.73	\$0.02	0.1%
30.0%	2.36	\$22.35	\$22.41	\$0.05	0.2%
40.0%	4.47	\$23.24	\$23.35	\$0.10	0.4%
50.0%	6.84	\$24.24	\$24.40	\$0.16	0.6%
60.0%	8.97	\$25.14	\$25.35	\$0.21	0.8%
70.0%	11.19	\$26.08	\$26.33	\$0.26	1.0%
80.0%	13.87	\$27.20	\$27.52	\$0.32	1.2%
90.0%	18.00	\$28.95	\$29.36	\$0.41	1.4%
100.0%	36.07	\$36.56	\$37.39	\$0.83	2.3%
Average	10.26	\$25.68	\$25.92	\$0.23	0.9%

Present Rates

Customer Charge (\$/customer)	\$21.36 (1)
Distribution Charge - First 10 therms (\$/thm)	\$0.4214 (1)
Distribution Charge - Excess 10 therms (\$/thm)	\$0.4214 (1)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (2)

Proposed Rates

Customer Charge (\$/customer)	\$21.36 (3)
Distribution Charge - First 10 therms (\$/thm)	\$0.4443 (3)
Distribution Charge - Excess 10 therms (\$/thm)	\$0.4443 (3)
LDAC (\$/thm)	\$0.0489 (1)
COG (\$/thm)	\$0.3850 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Low Annual, High Winter Use - G40
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	4.43	\$71.70	\$71.80	\$0.10	0.1%
20.0%	27.64	\$93.94	\$94.57	\$0.63	0.7%
30.0%	54.57	\$119.75	\$121.00	\$1.25	1.0%
40.0%	86.90	\$150.73	\$152.72	\$1.99	1.3%
50.0%	126.77	\$188.95	\$191.85	\$2.90	1.5%
60.0%	177.28	\$237.36	\$241.42	\$4.06	1.7%
70.0%	245.10	\$302.36	\$307.97	\$5.61	1.9%
80.0%	338.06	\$391.45	\$399.19	\$7.74	2.0%
90.0%	484.85	\$532.13	\$543.24	\$11.10	2.1%
100.0%	923.90	\$952.93	\$974.09	\$21.16	2.2%
Average	246.95	\$304.13	\$309.78	\$5.66	1.9%

<u>Distribution Only</u>					
10.0%	4.43	\$68.17	\$68.27	\$0.10	0.1%
20.0%	27.64	\$71.91	\$72.55	\$0.63	0.9%
30.0%	54.57	\$76.26	\$77.51	\$1.25	1.6%
40.0%	86.90	\$81.48	\$83.47	\$1.99	2.4%
50.0%	126.77	\$87.92	\$90.83	\$2.90	3.3%
60.0%	177.28	\$96.08	\$100.14	\$4.06	4.2%
70.0%	245.10	\$107.03	\$112.65	\$5.61	5.2%
80.0%	338.06	\$122.05	\$129.79	\$7.74	6.3%
90.0%	484.85	\$145.75	\$156.86	\$11.10	7.6%
100.0%	923.90	\$216.66	\$237.82	\$21.16	9.8%
Average	246.95	\$107.33	\$112.99	\$5.66	5.3%

Present Rates

Customer Charge (\$/customer)	\$67.45 (1)
Distribution Charge - First 75 therms (\$/thm)	\$0.1615 (1)
Distribution Charge - Excess 75 therms (\$/thm)	\$0.1615 (1)
LDAC (\$/thm)	\$0.0296 (2)
CGA (\$/thm)	\$0.7673 (2)

Proposed Rates

Customer Charge (\$/customer)	\$67.45 (3)
Distribution Charge - First 75 therms (\$/thm)	\$0.1844 (3)
Distribution Charge - Excess 75 therms (\$/thm)	\$0.1844 (3)
LDAC (\$/thm)	\$0.0296 (4)
CGA (\$/thm)	\$0.7673 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Low Annual, High Winter Use - G40
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
20.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
30.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
40.0%	1.16	\$68.17	\$68.19	\$0.03	0.0%
50.0%	5.41	\$70.80	\$70.92	\$0.12	0.2%
60.0%	11.70	\$74.68	\$74.95	\$0.27	0.4%
70.0%	23.50	\$81.98	\$82.52	\$0.54	0.7%
80.0%	45.46	\$95.55	\$96.59	\$1.04	1.1%
90.0%	87.78	\$121.72	\$123.73	\$2.01	1.7%
100.0%	249.91	\$221.95	\$227.67	\$5.72	2.6%
Average	42.49	\$93.72	\$94.69	\$0.97	1.0%
<u>Distribution Only</u>					
10.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
20.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
30.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
40.0%	1.16	\$67.64	\$67.66	\$0.03	0.0%
50.0%	5.41	\$68.32	\$68.45	\$0.12	0.2%
60.0%	11.70	\$69.34	\$69.61	\$0.27	0.4%
70.0%	23.50	\$71.25	\$71.78	\$0.54	0.8%
80.0%	45.46	\$74.79	\$75.83	\$1.04	1.4%
90.0%	87.78	\$81.63	\$83.64	\$2.01	2.5%
100.0%	249.91	\$107.81	\$113.53	\$5.72	5.3%
Average	42.49	\$74.31	\$75.29	\$0.97	1.3%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$67.45 (1)	Customer Charge (\$/customer)		\$67.45 (3)
Distribution Charge - First 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - First 75 therms (\$/thm)		\$0.1844 (3)
Distribution Charge - Excess 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - Excess 75 therms (\$/thm)		\$0.1844 (3)
LDAC (\$/thm)		\$0.0296 (2)	LDAC (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.4271 (2)	CGA (\$/thm)		\$0.4271 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Low Annual, Low Winter Use - G50
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
20.0%	2.72	\$69.81	\$69.87	\$0.06	0.1%
30.0%	9.58	\$75.78	\$76.00	\$0.22	0.3%
40.0%	23.28	\$87.68	\$88.22	\$0.53	0.6%
50.0%	47.61	\$108.82	\$109.91	\$1.09	1.0%
60.0%	91.23	\$146.72	\$148.81	\$2.09	1.4%
70.0%	172.70	\$217.51	\$221.46	\$3.95	1.8%
80.0%	300.72	\$328.75	\$335.64	\$6.89	2.1%
90.0%	456.81	\$464.38	\$474.84	\$10.46	2.3%
100.0%	769.53	\$736.10	\$753.73	\$17.62	2.4%
Average	187.42	\$230.30	\$234.59	\$4.29	1.9%
<u>Distribution Only</u>					
10.0%	0.00	\$67.45	\$67.45	\$0.00	0.0%
20.0%	2.72	\$67.89	\$67.95	\$0.06	0.1%
30.0%	9.58	\$69.00	\$69.22	\$0.22	0.3%
40.0%	23.28	\$71.21	\$71.74	\$0.53	0.7%
50.0%	47.61	\$75.14	\$76.23	\$1.09	1.5%
60.0%	91.23	\$82.18	\$84.27	\$2.09	2.5%
70.0%	172.70	\$95.34	\$99.30	\$3.95	4.1%
80.0%	300.72	\$116.02	\$122.90	\$6.89	5.9%
90.0%	456.81	\$141.22	\$151.69	\$10.46	7.4%
100.0%	769.53	\$191.73	\$209.35	\$17.62	9.2%
Average	187.42	\$97.72	\$102.01	\$4.29	4.4%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$67.45 (1)	Customer Charge (\$/customer)		\$67.45 (3)
Distribution Charge - First 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - First 75 therms (\$/thm)		\$0.1844 (3)
Distribution Charge - Excess 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - Excess 75 therms (\$/thm)		\$0.1844 (3)
LDAC (\$/thm)		\$0.0296 (2)	CGA (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.6778 (2)	LDAC (\$/thm)		\$0.6778 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Low Annual, Low Winter Use - G50
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.07	\$67.49	\$67.49	\$0.00	0.0%
20.0%	2.86	\$68.99	\$69.05	\$0.07	0.1%
30.0%	8.24	\$71.88	\$72.07	\$0.19	0.3%
40.0%	17.63	\$76.94	\$77.34	\$0.40	0.5%
50.0%	35.77	\$86.69	\$87.51	\$0.82	0.9%
60.0%	71.14	\$105.72	\$107.35	\$1.63	1.5%
70.0%	142.62	\$144.18	\$147.45	\$3.27	2.3%
80.0%	247.68	\$200.70	\$206.38	\$5.67	2.8%
90.0%	372.16	\$267.68	\$276.20	\$8.52	3.2%
100.0%	611.33	\$396.36	\$410.36	\$14.00	3.5%
Average	150.95	\$148.66	\$152.12	\$3.46	2.3%
<u>Distribution Only</u>					
10.0%	0.07	\$67.46	\$67.46	\$0.00	0.0%
20.0%	2.86	\$67.91	\$67.98	\$0.07	0.1%
30.0%	8.24	\$68.78	\$68.97	\$0.19	0.3%
40.0%	17.63	\$70.30	\$70.70	\$0.40	0.6%
50.0%	35.77	\$73.23	\$74.05	\$0.82	1.1%
60.0%	71.14	\$78.94	\$80.57	\$1.63	2.1%
70.0%	142.62	\$90.48	\$93.75	\$3.27	3.6%
80.0%	247.68	\$107.45	\$113.12	\$5.67	5.3%
90.0%	372.16	\$127.55	\$136.08	\$8.52	6.7%
100.0%	611.33	\$166.18	\$180.18	\$14.00	8.4%
Average	150.95	\$91.83	\$95.28	\$3.46	3.8%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$67.45 (1)	Customer Charge (\$/customer)		\$67.45 (3)
Distribution Charge - First 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - First 75 therms (\$/thm)		\$0.1844 (3)
Distribution Charge - Excess 75 therms (\$/thm)		\$0.1615 (1)	Distribution Charge - Excess 75 therms (\$/thm)		\$0.1844 (3)
LDAC (\$/thm)		\$0.0296 (2)	CGA (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.3469 (2)	LDAC (\$/thm)		\$0.3469 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Medium Annual, High Winter Use - G41
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	310.17	\$508.98	\$516.08	\$7.10	1.4%
20.0%	818.65	\$1,020.88	\$1,039.63	\$18.75	1.8%
30.0%	1,089.68	\$1,293.73	\$1,318.68	\$24.95	1.9%
40.0%	1,314.59	\$1,520.15	\$1,550.25	\$30.10	2.0%
50.0%	1,553.42	\$1,760.59	\$1,796.16	\$35.57	2.0%
60.0%	1,858.38	\$2,067.59	\$2,110.14	\$42.56	2.1%
70.0%	2,313.08	\$2,525.34	\$2,578.31	\$52.97	2.1%
80.0%	3,035.26	\$3,252.38	\$3,321.89	\$69.51	2.1%
90.0%	4,276.44	\$4,501.90	\$4,599.83	\$97.93	2.2%
100.0%	7,338.99	\$7,585.01	\$7,753.08	\$168.06	2.2%
Average	2,390.87	\$2,603.65	\$2,658.41	\$54.75	2.1%
<u>Distribution Only</u>					
10.0%	310.17	\$261.80	\$268.91	\$7.10	2.7%
20.0%	818.65	\$368.48	\$387.23	\$18.75	5.1%
30.0%	1,089.68	\$425.34	\$450.30	\$24.95	5.9%
40.0%	1,314.59	\$472.53	\$502.63	\$30.10	6.4%
50.0%	1,553.42	\$522.64	\$558.21	\$35.57	6.8%
60.0%	1,858.38	\$586.62	\$629.17	\$42.56	7.3%
70.0%	2,313.08	\$682.01	\$734.98	\$52.97	7.8%
80.0%	3,035.26	\$833.53	\$903.04	\$69.51	8.3%
90.0%	4,276.44	\$1,093.93	\$1,191.86	\$97.93	9.0%
100.0%	7,338.99	\$1,736.45	\$1,904.51	\$168.06	9.7%
Average	2,390.87	\$698.33	\$753.08	\$54.75	7.8%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$196.73 (1)	Customer Charge (\$/customer)		\$196.73 (3)
Distribution Charge - All therms (\$/thm)		\$0.2098 (1)	Distribution Charge - All therms (\$/thm)		\$0.2327 (3)
LDAC (\$/thm)		\$0.0296 (2)	LDAC (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.7673 (2)	CGA (\$/thm)		\$0.7673 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Medium Annual, High Winter Use - G41
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	0.00	\$196.73	\$196.73	\$0.00	0.0%
20.0%	5.88	\$200.37	\$200.51	\$0.13	0.1%
30.0%	39.86	\$221.40	\$222.31	\$0.91	0.4%
40.0%	119.15	\$270.47	\$273.20	\$2.73	1.0%
50.0%	230.97	\$339.67	\$344.96	\$5.29	1.6%
60.0%	364.21	\$422.14	\$430.48	\$8.34	2.0%
70.0%	509.61	\$512.13	\$523.80	\$11.67	2.3%
80.0%	719.54	\$642.06	\$658.53	\$16.48	2.6%
90.0%	1,106.64	\$881.63	\$906.97	\$25.34	2.9%
100.0%	2,524.27	\$1,759.00	\$1,816.81	\$57.81	3.3%
Average	562.01	\$544.56	\$557.43	\$12.87	2.4%
<u>Distribution Only</u>					
10.0%	0.00	\$196.73	\$196.73	\$0.00	0.0%
20.0%	5.88	\$197.68	\$197.82	\$0.13	0.1%
30.0%	39.86	\$203.20	\$204.11	\$0.91	0.4%
40.0%	119.15	\$216.06	\$218.78	\$2.73	1.3%
50.0%	230.97	\$234.19	\$239.48	\$5.29	2.3%
60.0%	364.21	\$255.80	\$264.14	\$8.34	3.3%
70.0%	509.61	\$279.39	\$291.06	\$11.67	4.2%
80.0%	719.54	\$313.44	\$329.92	\$16.48	5.3%
90.0%	1,106.64	\$376.23	\$401.57	\$25.34	6.7%
100.0%	2,524.27	\$606.17	\$663.97	\$57.81	9.5%
Average	562.01	\$287.89	\$300.76	\$12.87	4.5%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$196.73 (1)	Customer Charge (\$/customer)		\$196.73 (3)
Distribution Charge - All therms (\$/thm)		\$0.1622 (1)	Distribution Charge - All therms (\$/thm)		\$0.1851 (3)
LDAC (\$/thm)		\$0.0296 (2)	LDAC (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.4271 (2)	CGA (\$/thm)		\$0.4271 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Medium Annual, Low Winter Use - G51
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	335.07	\$484.70	\$492.37	\$7.67	1.6%
20.0%	725.69	\$820.40	\$837.02	\$16.62	2.0%
30.0%	853.10	\$929.90	\$949.43	\$19.54	2.1%
40.0%	971.90	\$1,031.99	\$1,054.25	\$22.26	2.2%
50.0%	1,107.19	\$1,148.26	\$1,173.62	\$25.35	2.2%
60.0%	1,275.87	\$1,293.23	\$1,322.45	\$29.22	2.3%
70.0%	1,495.24	\$1,476.26	\$1,510.50	\$34.24	2.3%
80.0%	1,899.30	\$1,812.12	\$1,855.61	\$43.49	2.4%
90.0%	2,635.60	\$2,424.15	\$2,484.50	\$60.36	2.5%
100.0%	5,025.23	\$4,410.45	\$4,525.53	\$115.08	2.6%
Average	1,632.42	\$1,590.28	\$1,627.67	\$37.38	2.4%
<u>Distribution Only</u>					
10.0%	335.07	\$247.66	\$255.33	\$7.67	3.1%
20.0%	725.69	\$307.04	\$323.65	\$16.62	5.4%
30.0%	853.10	\$326.40	\$345.94	\$19.54	6.0%
40.0%	971.90	\$344.46	\$366.71	\$22.26	6.5%
50.0%	1,107.19	\$365.02	\$390.38	\$25.35	6.9%
60.0%	1,275.87	\$390.66	\$419.88	\$29.22	7.5%
70.0%	1,495.24	\$418.50	\$452.74	\$34.24	8.2%
80.0%	1,899.30	\$468.52	\$512.02	\$43.49	9.3%
90.0%	2,635.60	\$559.68	\$620.03	\$60.36	10.8%
100.0%	5,025.23	\$855.51	\$970.59	\$115.08	13.5%
Average	1,632.42	\$435.48	\$472.87	\$37.38	8.6%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$196.73 (1)	Customer Charge (\$/customer)		\$196.73 (3)
Distribution Charge - First 1,300 therms (\$/thm)		\$0.1520 (1)	Distribution Charge - First 1,300 therms (\$/thm)		\$0.1749 (3)
Distribution Charge - Excess 1,300 therms (\$/thm)		\$0.1238 (1)	Distribution Charge - Excess 1,300 therms (\$/thm)		\$0.1467 (3)
LDAC (\$/thm)		\$0.0296 (2)	CGA (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.6778 (2)	LDAC (\$/thm)		\$0.6778 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - Medium Annual, Low Winter Use - G51
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	164.90	\$278.32	\$282.10	\$3.78	1.4%
20.0%	521.45	\$454.75	\$466.69	\$11.94	2.6%
30.0%	628.41	\$507.68	\$522.07	\$14.39	2.8%
40.0%	721.26	\$553.62	\$570.14	\$16.52	3.0%
50.0%	808.31	\$596.70	\$615.21	\$18.51	3.1%
60.0%	930.76	\$657.29	\$678.60	\$21.31	3.2%
70.0%	1,113.81	\$745.30	\$770.81	\$25.51	3.4%
80.0%	1,362.49	\$862.76	\$893.96	\$31.20	3.6%
90.0%	1,768.95	\$1,054.73	\$1,095.24	\$40.51	3.8%
100.0%	3,649.96	\$1,943.17	\$2,026.75	\$83.58	4.3%
Average	1,167.03	\$770.44	\$797.16	\$26.72	3.5%
<u>Distribution Only</u>					
10.0%	164.90	\$216.24	\$220.01	\$3.78	1.7%
20.0%	521.45	\$258.42	\$270.36	\$11.94	4.6%
30.0%	628.41	\$271.07	\$285.46	\$14.39	5.3%
40.0%	721.26	\$282.05	\$298.57	\$16.52	5.9%
50.0%	808.31	\$292.35	\$310.86	\$18.51	6.3%
60.0%	930.76	\$306.84	\$328.15	\$21.31	6.9%
70.0%	1,113.81	\$325.93	\$351.44	\$25.51	7.8%
80.0%	1,362.49	\$349.76	\$380.96	\$31.20	8.9%
90.0%	1,768.95	\$388.70	\$429.20	\$40.51	10.4%
100.0%	3,649.96	\$568.90	\$652.48	\$83.58	14.7%
Average	1,167.03	\$331.03	\$357.76	\$26.72	8.1%

Present Rates

Customer Charge (\$/customer)	\$196.73 (1)
Distribution Charge - First 1,000 therms (\$/thm)	\$0.1183 (1)
Distribution Charge - Excess 1,000 therms (\$/thm)	\$0.0958 (1)
LDAC (\$/thm)	\$0.0296 (2)
CGA (\$/thm)	\$0.3469 (2)

Proposed Rates

Customer Charge (\$/customer)	\$196.73 (3)
Distribution Charge - First 1,000 therms (\$/thm)	\$0.1412 (3)
Distribution Charge - Excess 1,000 therms (\$/thm)	\$0.1187 (3)
CGA (\$/thm)	\$0.0296 (4)
LDAC (\$/thm)	\$0.3469 (4)

- (1) Current seasonal rates
- (2) 6 month average seasonal COG
- (3) Temporary Rates including \$0.0229/therm adjustment
- (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - High Annual, High Winter Use - G42
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
9.8%	3,268.24	\$4,305.22	\$4,380.07	\$74.84	1.7%
20.1%	7,419.74	\$8,345.94	\$8,515.86	\$169.91	2.0%
29.9%	9,222.99	\$10,101.08	\$10,312.29	\$211.21	2.1%
40.2%	10,830.36	\$11,665.56	\$11,913.57	\$248.02	2.1%
50.0%	12,077.18	\$12,879.11	\$13,155.68	\$276.57	2.1%
59.8%	14,047.99	\$14,797.33	\$15,119.03	\$321.70	2.2%
70.1%	16,354.75	\$17,042.54	\$17,417.06	\$374.52	2.2%
79.9%	18,890.81	\$19,510.93	\$19,943.53	\$432.60	2.2%
90.2%	24,097.25	\$24,578.45	\$25,130.27	\$551.83	2.2%
100.0%	98,242.53	\$96,745.28	\$98,995.03	\$2,249.75	2.3%
Average	21,445.18	\$21,997.14	\$22,488.24	\$491.09	2.2%
<u>Distribution Only</u>					
9.8%	3,268.24	\$1,700.71	\$1,775.55	\$74.84	4.4%
20.1%	7,419.74	\$2,433.03	\$2,602.94	\$169.91	7.0%
29.9%	9,222.99	\$2,751.13	\$2,962.33	\$211.21	7.7%
40.2%	10,830.36	\$3,034.67	\$3,282.68	\$248.02	8.2%
50.0%	12,077.18	\$3,254.60	\$3,531.17	\$276.57	8.5%
59.8%	14,047.99	\$3,602.25	\$3,923.95	\$321.70	8.9%
70.1%	16,354.75	\$4,009.17	\$4,383.69	\$374.52	9.3%
79.9%	18,890.81	\$4,456.53	\$4,889.13	\$432.60	9.7%
90.2%	24,097.25	\$5,374.95	\$5,926.77	\$551.83	10.3%
100.0%	98,242.53	\$18,454.17	\$20,703.93	\$2,249.75	12.2%
Average	21,445.18	\$4,907.12	\$5,398.21	\$491.09	10.0%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$1,124.19 (1)	Customer Charge (\$/customer)		\$1,124.19 (3)
Distribution Charge - All therms (\$/thm)		\$0.1764 (1)	Distribution Charge - All therms (\$/thm)		\$0.1993 (3)
LDAC (\$/thm)		\$0.0296 (2)	LDAC (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.7673 (2)	CGA (\$/thm)		\$0.7673 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - High Annual, High Winter Use - G42
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
10.0%	194.84	\$1,233.94	\$1,238.41	\$4.46	0.4%
20.1%	466.60	\$1,387.03	\$1,397.71	\$10.69	0.8%
30.1%	1,161.76	\$1,778.61	\$1,805.22	\$26.60	1.5%
40.2%	2,092.77	\$2,303.05	\$2,350.97	\$47.92	2.1%
50.2%	3,103.77	\$2,872.54	\$2,943.62	\$71.08	2.5%
59.8%	3,754.37	\$3,239.03	\$3,325.00	\$85.98	2.7%
69.9%	4,661.49	\$3,750.01	\$3,856.76	\$106.75	2.8%
79.9%	6,258.51	\$4,649.61	\$4,792.93	\$143.32	3.1%
90.0%	8,711.55	\$6,031.41	\$6,230.90	\$199.49	3.3%
100.0%	42,931.93	\$25,307.75	\$26,290.89	\$983.14	3.9%
Average	7,333.76	\$5,255.30	\$5,423.24	\$167.94	3.2%
<u>Distribution Only</u>					
10.0%	194.84	\$1,144.96	\$1,149.42	\$4.46	0.4%
20.1%	466.60	\$1,173.93	\$1,184.61	\$10.69	0.9%
30.1%	1,161.76	\$1,248.03	\$1,274.64	\$26.60	2.1%
40.2%	2,092.77	\$1,347.28	\$1,395.20	\$47.92	3.6%
50.2%	3,103.77	\$1,455.05	\$1,526.13	\$71.08	4.9%
59.8%	3,754.37	\$1,524.41	\$1,610.38	\$85.98	5.6%
69.9%	4,661.49	\$1,621.10	\$1,727.85	\$106.75	6.6%
79.9%	6,258.51	\$1,791.35	\$1,934.67	\$143.32	8.0%
90.0%	8,711.55	\$2,052.84	\$2,252.34	\$199.49	9.7%
100.0%	42,931.93	\$5,700.73	\$6,683.87	\$983.14	17.2%
Average	7,333.76	\$1,905.97	\$2,073.91	\$167.94	8.8%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$1,124.19 (1)	Customer Charge (\$/customer)		\$1,124.19 (3)
Distribution Charge - All therms (\$/thm)		\$0.1066 (1)	Distribution Charge - All therms (\$/thm)		\$0.1295 (3)
LDAC (\$/thm)		\$0.0296 (2)	LDAC (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.4271 (2)	CGA (\$/thm)		\$0.4271 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - High Annual, Low Winter Use - G52
 Proposed Rates versus Present Rates
 Winter

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
9.8%	3,102.47	\$3,797.02	\$3,868.06	\$71.05	1.9%
20.1%	9,768.47	\$9,539.89	\$9,763.58	\$223.70	2.3%
29.9%	14,676.19	\$13,767.97	\$14,104.06	\$336.08	2.4%
40.2%	20,424.77	\$18,720.47	\$19,188.20	\$467.73	2.5%
50.0%	24,742.79	\$22,440.52	\$23,007.13	\$566.61	2.5%
59.8%	35,960.92	\$32,105.12	\$32,928.62	\$823.50	2.6%
70.1%	46,755.90	\$41,405.18	\$42,475.89	\$1,070.71	2.6%
79.9%	54,331.66	\$47,931.82	\$49,176.02	\$1,244.20	2.6%
90.2%	69,522.58	\$61,019.05	\$62,611.12	\$1,592.07	2.6%
100.0%	191,929.38	\$166,474.55	\$170,869.73	\$4,395.18	2.6%
Average	47,121.51	\$41,720.16	\$42,799.24	\$1,079.08	2.6%
<u>Distribution Only</u>					
9.8%	3,102.47	\$1,602.28	\$1,673.33	\$71.05	4.4%
20.1%	9,768.47	\$2,629.51	\$2,853.21	\$223.70	8.5%
29.9%	14,676.19	\$3,385.79	\$3,721.88	\$336.08	9.9%
40.2%	20,424.77	\$4,271.65	\$4,739.37	\$467.73	10.9%
50.0%	24,742.79	\$4,937.05	\$5,503.66	\$566.61	11.5%
59.8%	35,960.92	\$6,665.77	\$7,489.27	\$823.50	12.4%
70.1%	46,755.90	\$8,329.27	\$9,399.98	\$1,070.71	12.9%
79.9%	54,331.66	\$9,496.70	\$10,740.89	\$1,244.20	13.1%
90.2%	69,522.58	\$11,837.62	\$13,429.69	\$1,592.07	13.4%
100.0%	191,929.38	\$30,700.51	\$35,095.69	\$4,395.18	14.3%
Average	47,121.51	\$8,385.62	\$9,464.70	\$1,079.08	12.9%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$1,124.19 (1)	Customer Charge (\$/customer)		\$1,124.19 (3)
Distribution Charge - All therms (\$/thm)		\$0.1541 (1)	Distribution Charge - All therms (\$/thm)		\$0.1770 (3)
LDAC (\$/thm)		\$0.0296 (2)	CGA (\$/thm)		\$0.0296 (4)
CGA (\$/thm)		\$0.6778 (2)	LDAC (\$/thm)		\$0.6778 (4)

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - NH Division
 General Service - High Annual, Low Winter Use - G52
 Proposed Rates versus Present Rates
 Summer

Cumulative Percentage of Bills	Average Monthly Usage (Therms)	Monthly Bills @ Present Rates	Monthly Bills @ Proposed Rates	\$ Difference	% Difference
<u>Delivery and Supply</u>					
9.9%	5,926.56	\$3,774.64	\$3,910.36	\$135.72	3.6%
19.8%	10,415.80	\$5,782.31	\$6,020.83	\$238.52	4.1%
30.2%	15,361.14	\$7,993.95	\$8,345.72	\$351.77	4.4%
40.1%	20,456.75	\$10,272.79	\$10,741.25	\$468.46	4.6%
50.0%	24,326.38	\$12,003.35	\$12,560.43	\$557.07	4.6%
59.9%	29,065.87	\$14,122.93	\$14,788.54	\$665.61	4.7%
69.8%	34,228.84	\$16,431.90	\$17,215.74	\$783.84	4.8%
80.2%	40,790.42	\$19,366.34	\$20,300.44	\$934.10	4.8%
90.1%	63,504.84	\$29,524.61	\$30,978.88	\$1,454.26	4.9%
100.0%	156,775.16	\$71,236.66	\$74,826.81	\$3,590.15	5.0%
Average	40,085.18	\$19,050.95	\$19,968.90	\$917.95	4.8%
<u>Distribution Only</u>					
9.9%	5,926.56	\$1,543.20	\$1,678.92	\$135.72	8.8%
19.8%	10,415.80	\$1,860.59	\$2,099.11	\$238.52	12.8%
30.2%	15,361.14	\$2,210.22	\$2,561.99	\$351.77	15.9%
40.1%	20,456.75	\$2,570.48	\$3,038.94	\$468.46	18.2%
50.0%	24,326.38	\$2,844.07	\$3,401.14	\$557.07	19.6%
59.9%	29,065.87	\$3,179.15	\$3,844.76	\$665.61	20.9%
69.8%	34,228.84	\$3,544.17	\$4,328.01	\$783.84	22.1%
80.2%	40,790.42	\$4,008.07	\$4,942.17	\$934.10	23.3%
90.1%	63,504.84	\$5,613.98	\$7,068.24	\$1,454.26	25.9%
100.0%	156,775.16	\$12,208.19	\$15,798.35	\$3,590.15	29.4%
Average	40,085.18	\$3,958.21	\$4,876.16	\$917.95	23.2%
<u>Present Rates</u>			<u>Proposed Rates</u>		
Customer Charge (\$/customer)		\$1,124.19 (1)	Customer Charge (\$/customer)	\$1,124.19 (3)	
Distribution Charge - All therms (\$/thm)		\$0.0707 (1)	Distribution Charge - All therms (\$/thm)	\$0.0936 (3)	
LDAC (\$/thm)		\$0.0296 (2)	CGA (\$/thm)	\$0.0296 (4)	
CGA (\$/thm)		\$0.3469 (2)	LDAC (\$/thm)	\$0.3469 (4)	

(1) Current seasonal rates
 (2) 6 month average seasonal COG
 (3) Temporary Rates including \$0.0229/therm adjustment
 (4) 6 month average seasonal COG

Northern Utilities - New Hampshire Division
 Typical Residential Heating Bill (R-5)
 Bill Impacts Illustrating Changes on a Monthly Basis
 Current Rates and Temporary Rates (inc. \$0.0229/therm), using 6 month average COGC

Line No.	Residential Heating (R-5)	Nov (1)	Dec (2)	Jan (3)	Feb (4)	Mar (5)	Apr (6)	May (7)	Jun (8)	Jul (9)	Aug (10)	Sep (11)	Oct (12)	Total Peak (13)	Total Off-Peak (14)	Annual Nov-Oct (15)
1	Test Year Monthly Weather Normalized Therm per Customer	53	97	129	140	117	73	41	22	14	14	14	24	609	129	738
2	Average First Block Therm per Customer	36	45	46	47	45	42	31	21	13	14	13	22	260	114	374
3	Average Excess Block Therm per Customer	17	52	83	94	72	31	10	1	1	1	1	2	349	15	365
4																
5	Current November - October Rates															
6	Customer Charge	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36		
7	Distribution - First 50 therm @	\$0.6239	\$0.6239	\$0.6239	\$0.6239	\$0.6239	\$0.6239	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449		
8	Distribution - Over 50 therm @	\$0.5103	\$0.5103	\$0.5103	\$0.5103	\$0.5103	\$0.5103	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449	\$0.5449		
9																
10	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
11	COGC (\$/therm)	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
12																
13	TOTAL BILL	\$95.29	\$153.39	\$196.15	\$210.85	\$180.36	\$121.31	\$61.39	\$43.04	\$34.67	\$35.44	\$34.93	\$45.18	\$957	\$255	\$1,212
14																
15																
16	Proposed November - October Rates															
17	Customer Charge	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36		
18	Distribution - First 50 therm @	\$0.6468	\$0.6468	\$0.6468	\$0.6468	\$0.6468	\$0.6468	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678		
19	Distribution - Over 50 therm @	\$0.5332	\$0.5332	\$0.5332	\$0.5332	\$0.5332	\$0.5332	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678	\$0.5678		
20																
21	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
22	COGC (\$/therm) inc. increment	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
23																
24	TOTAL BILL	\$96.51	\$155.61	\$199.10	\$214.06	\$183.04	\$122.97	\$62.32	\$43.55	\$34.99	\$35.77	\$35.25	\$45.74	\$971	\$258	\$1,229
25																
26	Proposed Bill less Current Bill															
27	Total Bill increase/(decrease)	\$1.22	\$2.21	\$2.96	\$3.21	\$2.68	\$1.66	\$0.94	\$0.51	\$0.31	\$0.33	\$0.32	\$0.56	\$14	\$3	\$17
28	Percentage increase/(decrease)	1.3%	1.4%	1.5%	1.5%	1.5%	1.4%	1.5%	1.2%	0.9%	0.9%	0.9%	1.2%	1.5%	1.2%	1.4%

**Northern Utilities - New Hampshire Division
 Typical Low Income Residential Heating Bill (R-10)
 Bill Impacts Illustrating Changes on a Monthly Basis
 Current Rates and Temporary Rates (inc. \$0.0229/therm), using 6 month average COGC**

Line No.	Low Income Residential Heating (R-10)	Nov (1)	Dec (2)	Jan (3)	Feb (4)	Mar (5)	Apr (6)	May (7)	Jun (8)	Jul (9)	Aug (10)	Sep (11)	Oct (12)	Total Peak (13)	Total Off-Peak (14)	Annual Nov-Oct (15)
1	Test Year Monthly Weather Normalized Therm per Customer	47	85	115	118	104	68	45	18	12	13	16	23	537	127	664
2	Average First Block Therm per Customer	37	46	47	47	46	43	32	19	12	13	15	22	267	112	379
3	Average Excess Block Therm per Customer	10	39	68	71	57	25	14	(1)	0	0	0	1	271	15	286
4																
5	Current November - October Rates															
6	Customer Charge	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54		
7	Distribution - First 50 therm @	\$0.2496	\$0.2496	\$0.2496	\$0.2496	\$0.2496	\$0.2496	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179		
8	Distribution - Over 50 therm @	\$0.2041	\$0.2041	\$0.2041	\$0.2041	\$0.2041	\$0.2041	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179	\$0.2179		
9																
10	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
11	COGC (\$/therm)	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
12																
13	TOTAL BILL	\$57.93	\$96.68	\$126.64	\$129.30	\$114.88	\$78.80	\$38.05	\$20.16	\$16.39	\$16.86	\$18.79	\$23.71	\$604	\$134	\$738
14																
15																
16	Proposed November - October Rates															
17	Customer Charge	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54	\$8.54		
18	Distribution - First 50 therm @	\$0.2725	\$0.2725	\$0.2725	\$0.2725	\$0.2725	\$0.2725	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408		
19	Distribution - Over 50 therm @	\$0.2270	\$0.2270	\$0.2270	\$0.2270	\$0.2270	\$0.2270	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408	\$0.2408		
20																
21	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
22	COGC (\$/therm) inc. increment	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
23																
24	TOTAL BILL	\$59.02	\$98.64	\$129.28	\$132.00	\$117.25	\$80.36	\$39.09	\$20.57	\$16.66	\$17.16	\$19.15	\$24.25	\$617	\$137	\$753
25																
26	Proposed Bill less Current Bill															
27	Total Bill increase/(decrease)	\$1.09	\$1.96	\$2.64	\$2.70	\$2.37	\$1.55	\$1.04	\$0.41	\$0.28	\$0.29	\$0.36	\$0.53	\$12	\$3	\$15
28	Percentage increase/(decrease)	1.9%	2.0%	2.1%	2.1%	2.1%	2.0%	2.7%	2.0%	1.7%	1.7%	1.9%	2.2%	2.0%	2.2%	2.1%

Northern Utilities - New Hampshire Division
Typical Residential Non-Heating Bill (R-6)
Bill Impacts Illustrating Changes on a Monthly Basis
Current Rates and Temporary Rates (inc. \$0.0229/therm), using 6 month average COGC

Line No.	Residential Non-Heating (R-6)	Nov (1)	Dec (2)	Jan (3)	Feb (4)	Mar (5)	Apr (6)	May (7)	Jun (8)	Jul (9)	Aug (10)	Sep (11)	Oct (12)	Total Peak (13)	Total Off-Peak (14)	Annual Nov-Oct (15)
1	Test Year Monthly Weather Normalized Therm per Customer	12	17	22	23	20	16	13	11	10	9	9	10	110	63	172
2	Average First Block Therm per Customer	7	7	7	7	7	7	7	7	6	6	6	6	41	39	79
3	Average Excess Block Therm per Customer	5	10	15	16	14	9	6	5	4	3	3	3	69	24	93
4																
5	Current November - October Rates															
6	Customer Charge	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36		
7	Distribution - First 10 therm @	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214		
8	Distribution - Over 10 therm @	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214	\$0.4214		
9																
10	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
11	COGC (\$/therm)	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
12																
13	TOTAL BILL	\$35.94	\$42.23	\$47.93	\$49.38	\$46.18	\$40.82	\$32.33	\$31.10	\$29.86	\$29.43	\$29.25	\$29.70	\$262	\$182	\$444
14																
15																
16	Proposed November - October Rates															
17	Customer Charge	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36	\$21.36		
18	Distribution - First 10 therm @	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443		
19	Distribution - Over 10 therm @	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443	\$0.4443		
20																
21	LDAC (\$/therm)	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489	\$0.0489		
22	COGC (\$/therm) inc. increment	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.7535	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850	\$0.3850		
23																
24	TOTAL BILL	\$36.21	\$42.62	\$48.42	\$49.90	\$46.65	\$41.18	\$32.62	\$31.36	\$30.08	\$29.65	\$29.46	\$29.92	\$265	\$183	\$448
25																
26	Proposed Bill less Current Bill															
27	Total Bill increase/(decrease)	\$0.27	\$0.39	\$0.50	\$0.52	\$0.46	\$0.36	\$0.29	\$0.26	\$0.23	\$0.22	\$0.21	\$0.22	\$3	\$1	\$4
28	Percentage increase/(decrease)	0.8%	0.9%	1.0%	1.1%	1.0%	0.9%	0.9%	0.8%	0.8%	0.7%	0.7%	0.8%	1.0%	0.8%	0.9%