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ORIGINAL	
N.H.P.U.C. Case No.	DG 10-249
Exhibit No.	# 4
Witness	Panel 1
DO NOT REMOVE FROM FILE	

October 12, 2010

BY HAND AND ELECTRONIC MAIL

Debra A. Howland
Executive Director and Secretary
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301

Re: New Hampshire Gas Corporation: Cost of Gas -- Winter 2010-2011:
DG: 10-249

Dear Ms. Howland:

Enclosed on behalf of New Hampshire Gas Corporation ("NHGC"), in the above-captioned proceeding, please find an original and seven (7) copies of NHGC's updated Cost of Gas filing for the Winter 2010-2011 period. Also enclosed are an original and seven (7) copies of the Second Supplemental Testimony of Jennifer Boucher, as well as a CD with the filing.

Thank you for your attention to this matter.

Very truly yours,



Meabh Purcell

Enc.

cc: Alexander F. Speidel, NHPUC
Stephen P. Frink, NHPUC
Robert J. Wyatt, NHPUC
Amanda Noonan, NHPUC

bs 128812

NEW HAMPSHIRE GAS CORPORATION

DG 10-249

Second Supplemental Testimony of Jennifer Boucher

1 **Q. Please state your name, employer and business address.**

2 A. My name is Jennifer Boucher. I am employed by The Berkshire Gas Company
3 (“Berkshire”) and my business address is 115 Cheshire Rd., Pittsfield, MA 01201.
4

5 **Q. What is your position?**

6 A. I am the Manager - Regulatory Economics for Berkshire.
7

8 **Q. Have you previously submitted testimony in this proceeding?**

9 A. Yes. On September 15, 2010, I submitted testimony in support of New
10 Hampshire Gas Company’s (“NHGC”) Cost of Gas (“COG”) rates for the winter
11 period, November 1, 2010 through April 30, 2011. Subsequently, on September
12 30, 2010, I submitted supplemental testimony to request that the Commission
13 allow the Company to suspend its Fixed Price Option (“FPO”) Program for the
14 2010-2011 winter COG period as a result of an embargo at the Selkirk, NY
15 terminal of the Enterprise TE Products Pipeline Company LLC (“Enterprise TE”).
16

17 **Q. What is the purpose of your supplemental testimony today?**

18 A. The purpose of my second supplemental testimony is to explain the updated
19 calculation of a single COG rate for NHGC customers to be billed from
20 November 1, 2010 to April 30, 2011.
21

22 **UPDATED COST OF GAS ADJUSTMENT**
23

24 **Q. Please update the calculation of the COG Rate on the proposed 43rd revised
25 Tariff Page 24.**

26 A. The proposed 43rd revised Tariff Page 24 contains the updated calculation of a
27 single 2010 – 2011 winter COG rate and summarizes the Company’s forecast of

1 propane sendout and propane costs. The updated estimated total cost of the
2 forecasted propane sendout from November 1, 2010 through April 30, 2011 is
3 \$1,663,142. The information presented on the tariff page is supported by
4 Attachments A through E described in my initial testimony, as revised and
5 updated where necessary in this Second Supplemental Testimony.

6
7 To derive the Total Anticipated Period Costs, the following adjustments have
8 been made:

- 9 1) The prior period over-collection of (\$26,933) is added to the
10 forecasted propane costs. This calculation of the under-
11 collection is demonstrated on Attachment D. This attachment
12 has not changed from the initial filing
13
- 14 2) Interest of \$1,641 is added to the forecasted propane costs.
15 Attachment C has been updated to show the forecasted interest
16 calculation for the period May 2010 through April 2011. The
17 interest calculation is based on the Wall Street Journal's posted
18 prime rate.
19

20 As explained in my Supplemental Testimony filed on September 30, 2010,
21 NHGC is seeking approval to suspend its FPO Program for the 2010-2011 winter
22 COG period as a result of an embargo at the Selkirk, NY terminal. Accordingly,
23 the proposed single COG rate applicable to all customers is forecasted to be
24 \$1.6356 per therm, derived by taking the Total Anticipated Period Costs of
25 \$1,663,142 divided by the Total Projected Gas Sales in Therms for the period of
26 1,016,812.
27

28 **Q. Please describe Attachment A, as revised.**

29 A. Attachment A converts the produced gas costs to therms. The 1,067,818 therms
30 represent propane sendout as detailed on Attachment B and the \$1.5812 per therm
31 cost represents the average cost per therm for the winter season as detailed on line

1 72 of Attachment E.

2

3 **Q. Please describe Attachment B, as revised.**

4 A. Attachment B represents the combined (over)/under collection calculation for the
5 2010 – 2011 winter period based on the anticipated volumes, the cost of gas, and
6 any applicable interest charges. As shown on line 5, total sendout is the weather
7 normalized 2009-2010 winter period firm sendout and Company Use. Firm sales
8 volumes shown on line 22 are derived from the weather normalized 2009-2010
9 winter period firm sales. Line 16 has been revised to eliminate any FPO premium
10 revenues for the coming period due to the proposed suspension of the FPO program
11 for the upcoming winter.

12

13 **Q. Are unaccounted-for gas volumes included in the filing?**

14 A. As previously explained, unaccounted-for gas volumes are included in the firm
15 send-out volumes on line 1 and are displayed on line 7 of Attachment B. As I
16 stated in my initial testimony, the Company continues to experience improvements
17 in system loss and is pleased to report that as of June 30, 2010, the 12 month-to-
18 date unaccounted-for percentage was reduced to 1.66%. Compared to previous
19 periods, this represents a significant reduction in unaccounted-for percentage level
20 of 6.44% in the 2005-2006 timeframe.

21

22 **Q. How is Attachment C represented in the COG calculation?**

23 A. Attachment C represents the COG interest calculation through April 2011. As
24 updated, the interest is calculated utilizing the prior period over-collection plus
25 interest, and amounts to \$1,641.

26

27 **Q. What are Attachments D and E?**

28 A. Attachment D has not changed since the initial filing on September 15. Attachment
29 D is the actual (over)/under collection balance for the prior period November 2009
30 through April 2010, including interest. The ending balance of (\$26,933) is
31 included on line 1, column 1, of Attachment C. Attachment E is a projection of the

1 cost of propane in inventory through April 2011, and has been updated to reflect
2 changes since the initial filing. Attachment E is important as the cost of propane
3 sold includes pre-purchased propane, spot market propane as well as propane
4 withdrawn from storage.

5

6 **Q. Please describe the pre-purchased propane.**

7 A. As explained in my initial testimony, the Company has again implemented its
8 Propane Purchasing Stabilization Plan (the "Plan") as approved in Order No.
9 24,617, in DG 06-037. Attachment B-2 (which is unchanged from the initial
10 filing) provides a synopsis of the prices and gallons of propane purchased with
11 respect to the Plan. The weighted average price of the 700,000 gallons procured
12 under the Plan is \$1.3613 per gallon, or \$1.4877 per therm. This price can be
13 seen on line 5 of Attachment B-1, and includes commodity, PERC and
14 transportation costs. However, due to embargo at the Selkirk NY terminal,
15 additional costs for trucking the pre-purchased volumes will be incurred from
16 Watkins Glen. The estimated incremental trucking and transportation costs are
17 shown on line 7 of Attachment B-1.

18

19 **Q. How were spot market prices determined?**

20 A. The spot market costs per gallon of propane shown on line 13 of revised
21 Attachment B-1 are the ClearPort propane futures settlement prices as of October
22 8, 2010, plus brokers', pipeline and transportation fees. For the months of
23 November and December, these costs are adjusted in anticipation of receiving the
24 volumes from the Watkins Glen, NY terminal, instead of the Selkirk, NY
25 terminal.

26

27 **Q. Explain the impact of pipeline or trucking fees on NHGC's costs of gas?**

28 A. For November and December 2010, due to the embargo at Selkirk, NY, the
29 Company anticipates sourcing its propane from the Watkins Glen, NY terminal.
30 The pipeline fee at Watkins Glen is \$0.093 per gallon, (compared to the
31 forecasted pipeline fee of \$0.1125 per gallon from Selkirk described in my initial

1 testimony). However, the trucking fee from Watkins Glen to Keene is estimated
2 to be an additional \$0.12 per gallon due to its location approximately 165 miles
3 away from Selkirk. Further, it is expected that there will be at least 6 hours of
4 additional detention time for trucks at Watkins Glen, which equates to \$0.04 per
5 gallon on top of these other charges. These cost estimates are included in revised
6 Attachment B-1, as well as revised Supplemental Schedule C.

7
8 **Q. How were NHGC customers notified of the Company's request to suspend**
9 **the FPO program for the coming winter?**

10 A. A letter to customers was mailed by October 5, 2010 advising them of the
11 Company's request, the current propane situation and ways to contact the
12 Commission with comment.

13
14 **Q. How will the winter 2010-2011 cost of gas rate affect the average New**
15 **Hampshire Gas Corporation customer who participated in the FPO program**
16 **last winter?**

17 A. If the FPO program is suspended for the upcoming winter, as requested, a single
18 winter 2010-2011 cost of gas rate of \$1.6356 will be billed to all NHGC
19 customers. Under the single rate, customers who participated in the FPO program
20 last winter will experience an increase of \$0.2954 per therm over the winter 2009-
21 2010 FPO cost of gas rate of \$1.3402. As demonstrated on Supplemental
22 Schedule A, to the average residential heat customer on the FPO rate last winter,
23 this would be a \$275.31 increase for the 2010-2011 winter COG period for the
24 gas cost component of their bill only, or a 22.0% increase. If the proposed
25 Monthly Customer Charge, per therm Delivery Rates and surcharge are factored
26 into the analysis, the average residential heat customer will see a \$261.32 increase
27 in their total costs for the 2010-2011 winter COG period, or a 11.6% increase.

28
29 **Q. How will the winter 2010-2011 cost of gas rate affect the average New**
30 **Hampshire Gas Corporation customer who did not participate in the FPO**
31 **program last winter?**

1 A. The Winter 2010-2011 cost of gas rate of \$1.6356 per therm for customers who
2 did not participate in the FPO program last winter will result in an increase of
3 \$0.1456 per therm from the average winter 2009-2010 cost of gas rate of \$1.4900
4 per therm. As illustrated on Supplemental Schedule A-1, to the average
5 residential heat customer who did not choose the FPO rate last winter, this would
6 be a \$135.66 increase for the 2010-2011 winter COG period for the gas cost
7 component of their bill only, or a 9.8% increase. If the proposed Monthly
8 Customer Charge, per therm Delivery Rates and surcharge are factored into the
9 analysis, the customer will see a \$121.67 increase in their total costs for the 2010-
10 2011 winter COG period, or a 5.1% increase.

11

12 **Q. What is the primary reason for these increases?**

13 A. The primary reason for these increases is higher market prices of propane versus
14 the winter 2009-2010 period, coupled with the Selkirk NY embargo.

15

16 **Q. Please describe Supplemental Schedule E.**

17 A. Supplemental Schedule E has not changed from the initial filing. Although
18 NHGC is requesting approval to suspend the FPO for the upcoming winter, as
19 required, Supplemental Schedule E is a billing comparison between a typical FPO
20 customer and a non-FPO customer for the winter 2009-2010 period, showing that
21 a typical FPO customer's winter billing amounted to approximately (\$140) less
22 than a non-FPO customer's winter billing.

23

24

MISCELLANEOUS

25

26 **Q. Will the Company meet its 7-day onsite storage requirements pursuant to**
27 **PUC 506.03?**

28 A. Yes. As discussed in a letter submitted to the Commission on March 22, 2004,
29 the Company is meeting its 7-day onsite storage requirements through an
30 arrangement with Northern Gas Transport, Inc. and The Berkshire Gas Company.
31 The storage facilities provided by The Berkshire Gas Company are located in

1 Greenfield, Massachusetts. In addition, Berkshire and NHGC have reached an
2 agreement in principal to lease additional space at Berkshire's storage facility in
3 Pittsfield MA due to the uncertainty surrounding the Selkirk embargo situation.
4

5 **Q. Are there any other changes to your initial testimony?**

6 A. No. As directed in Order No. 25,039, with its initial filing, NHGC submitted
7 revised tariffs to implement new delivery rates to increase revenues by an
8 additional \$57,747 beginning November 1, 2010. NHGC requests approval of the
9 revised tariffs as filed. As previously stated, the Company's rate case surcharge
10 will be completed on October 31, 2010, and reconciliation of approved expenses
11 and revenues related to the rate case surcharge will be filed prior to the 2011
12 Summer COG. Any remaining (over)/under-collection will be (credited) or
13 charged to the COG.
14

15 **Q. Does the Company renew its request for a waiver of N.H. Code Admin. Rule**
16 **Puc 1203.05 which requires rate changes to be implemented on a service-**
17 **rendered basis?**

18 A. Yes. For the reasons stated in my initial testimony, the Company is requesting a
19 waiver of N.H. Code Admin. Rule Puc 1203.05.
20

21 **Q. Does this conclude your second supplemental testimony?**

22 A. Yes, it does.
23

NEW HAMPSHIRE GAS CORPORATION

COST OF GAS ADJUSTMENT

WINTER PERIOD 2010 - 2011

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Line
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Calculation of the Cost of Gas Rate

Period Covered: Winter Period Nov. 1, 2010 through Apr. 30, 2011

Projected Gas Sales in Therms 1,016,812

Total Anticipated Cost					
	<u>Therms</u>	<u>Cost/</u>			
Propane	1,067,818	\$1.5812	=		\$1,688,434

Add: Prior Period (Deficiency
 Uncollected)
 Interest

Deduct: Prior Period (Excess Collected) (\$26,933)
 Interest \$1,641

Prior Period Adjusted (\$25,292)

Total Anticipated Cost \$1,663,142

Cost of Gas Rate Per Therm \$1.6356

Maximum Cost of Gas Rate Per Therm \$2.0445

Issued : Issued By: Karen L. Zink
 Effective: Title: Treasurer

In Compliance with DG 10-XXX, Order No.

New Hampshire Gas Corporation

Line No.

Calculation of the Cost of Gas Rate

~~Period Covered: Winter Period Nov. 1, 2009 through Apr. 30, 2010~~
 Period Covered: Winter Period Nov. 1, 2010 through Apr. 30, 2011

6	Projected Gas Sales in Therms				<u>948,562</u>
7					1,016,812
8	Total Anticipated Cost				
9		<u>Therms</u>	<u>Cost/</u>		
10	Propane	<u>4,043,307</u>	<u>\$1.2386</u>	=	\$4,265,082
11		1,067,818	\$1.5812		\$1,688,434
12	Add: Prior Period (Deficiency				
13	Uncollected)				\$38,839
14	Interest				\$2,378
15					
16					
17	Deduct: Prior Period (Excess				
18	Collected)				(\$26,933)
19	Interest				\$1,641
20					
21					
22	Prior Period Adjusted				\$44,247
23					<u>(\$25,292)</u>
24	Total Anticipated Cost				\$1,296,299
25					<u>\$1,663,142</u>
26					
27					Fixed Price Option Cost of Gas Rate \$1,3402
28					Cost of Gas Rate \$1.6356
29					<u>Projected Fixed Price Option Sales in Therms 245,000</u>
30					
31					Forecasted Fixed Price Option Cost Revenues \$288,143
32					
33					<u>Total Period Anticipated Cost from Line 24 \$1,296,299</u>
34					
35					Remaining Cost to be Recovered (Line 33 less Line 34) \$4,008,156
36					
37					<u>Projected Period Sales in Therms from Line 6 948,562</u>
38					
39					<u>Less Fixed Price Option Sales in Therms (245,000)</u>
40					
41					<u>Projected Non Fixed Price Option Gas Sales in Therms 733,562</u>
42					
43					<u>Non Fixed Price Option Cost of Gas Rate (Line 35 divided by Line 41) \$1,3743</u>
44					
45					Mid Period Adjustment Effective January 1, 2010 \$0.1053
46					
47					Mid Period Adjustment Effective February 1, 2010 \$0.0307
48					
49					Mid Period Adjustment Effective March 1, 2010 \$0.1274
50					
51					Mid Period Adjustment Effective April 1, 2010 (\$0.1496)
52					
53					<u>Non Fixed Price Option Cost of Gas Rate (Line 43 plus Line 45 plus Line 47 plus Line 49 plus line 51) \$1,5178</u>
54					
55					Fixed Price Option Cost of Gas Premium \$0.0200
56					
57					<u>Fixed Price Option Cost of Gas Rate (Line 42 plus Line 54) \$0.0200</u>
58					
59					

Pursuant to tariff section 17(d), the Company may adjust the approved Non-Fixed Price COG rate on a monthly basis up to the following rate:

Maximum Cost of Gas Rate	Per Therm	\$4.7479
		<u>\$2.0445</u>

Issued : _____ Issued By: _____
 Effective: _____ Karen L. Zink
 Treasurer

In Compliance with DG 10-XXX, Order No.

70

ENTRIES	<u>4,043,307</u>
	1,067,818
VOLUME IN THERMS	<u>4,265,082</u>
	1,688,434
PROPANE COST	<u>948,562</u>
	1,016,812
TOTAL SALES	

NEW HAMPSHIRE GAS CORPORATION

CONVERSION OF PRODUCED GAS COSTS TO THERMS

	1	2	3	4	5	6	7
				VOLUMES		UNIT COST	
	<u>PERIOD</u>	<u>UNIT</u>	<u>CONVERSION FACTOR</u>	<u>GALLONS</u>	<u>THERMS</u>	<u>PER GALLON</u>	<u>PER THERM</u>
PRODUCED GAS	WINTER 2010-2011	GALLONS	0.91502	1,166,989	1,067,818	\$1.4468	\$1.5812

NEW HAMPSHIRE GAS CORPORATION

CALCULATION OF COST OF GAS ADJUSTMENT

SUPPLY / DEMAND BALANCE ALL VOLUMES IN THERMS

Line No.		NOV 2010	DEC 2010	JAN 2011	FEB 2011	MAR 2011	APR 2011	TOTAL
	<u>SENDOUT</u>							
1	FIRM SENDOUT *	121,107	212,021	245,208	211,316	162,557	85,808	1,038,017
2								
3	COMPANY USE	3,675	6,364	7,085	5,530	4,236	2,911	29,801
4								
5	TOTAL SENDOUT	124,782	218,385	252,293	216,846	166,793	88,719	1,067,818
6								
7	* UNACCTED FOR VOLS INCLUDED	1,978	3,462	4,004	3,451	2,654	1,401	16,950
8								
9	<u>COSTS</u>							
10								
11	PROPANE SENDOUT	124,782	218,385	252,293	216,846	166,793	88,719	1,067,818
12	FROM ABOVE							
13								
14	COST/THERM	\$1.6681	\$1.6913	\$1.5674	\$1.5336	\$1.5060	\$1.4849	
15								
16	FPO PREMIUM	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17								
18	TOTAL PROPANE COSTS	\$208,149	\$369,355	\$395,445	\$332,556	\$251,191	\$131,739	\$1,688,434
19								
20	<u>REVENUES</u>							
21								
22	FIRM SALES	84,823	115,888	245,514	220,142	201,062	149,384	1,016,812
23								
24	RATE/THERM AVERAGE	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	
25								
26	TOTAL COG REVENUES	\$138,740	\$189,551	\$401,574	\$360,073	\$328,866	\$244,339	\$1,663,143
27								
28	UNDER/(OVER) COLLECTION	\$69,409	\$179,804	(\$6,129)	(\$27,517)	(\$77,675)	(\$112,600)	\$25,291
29								
30	INTEREST FROM ATTACHMENT C	\$20	\$357	\$594	\$550	\$409	\$152	\$2,082
31								
32	FINAL UNDER/(OVER) COLLECTION	(\$27,374)	\$42,055	\$222,216	\$216,681	\$189,714	\$112,448	\$0

New Hampshire Gas Corporation
2010-2011 Winter Hedging Schedule

	<u>April - 2010</u>	<u>May-2010</u>	<u>June-2010</u>	<u>July-2010</u>	<u>August-2010</u>	<u>September-2010</u>	<u>Total</u>	Line <u>No.</u>
November	17,000	12,750	12,750	17,000	12,750	12,750	85,000	1
December	26,000	19,500	19,500	26,000	19,500	19,500	130,000	2
January	38,000	28,500	28,500	38,000	28,500	28,500	190,000	3
February	28,000	21,000	21,000	28,000	21,000	21,000	140,000	4
March	20,000	15,000	15,000	20,000	15,000	15,000	100,000	5
April	11,000	8,250	8,250	11,000	8,250	8,250	55,000	6
Total	140,000	105,000	105,000	140,000	105,000	105,000	700,000	7
								8
								9
							Weighted	10
							Average	11
							Price	12
Purchase Price	\$1.4680	\$1.3185	\$1.2905	\$1.2950	\$1.3830	\$1.3995	\$1.3613	13

NEW HAMPSHIRE GAS CORPORATION

CGA REFUND INTEREST CALCULATION FOR THE WINTER PERIOD NOV., 2010 THROUGH APR., 2011

LINE NO.	MONTH	(1) BEG. OF MONTH BALANCE	(2) -OVER UNDER COLLECT	(3) REFUNDS	(4) END OF MONTH BALANCE COL. 1+2+3	(5) AVERAGE BALANCE COL. 1+4/2	(6) ANNUAL INTEREST RATE	(7) INTEREST AMOUNT	(8) END MONTH BAL. WITH INTEREST COL. 4+7
1	MAY 2010	(\$26,933)			(\$26,933)	(\$26,933)	3.25	(\$73)	(\$27,006)
2	JUN	(\$27,006)			(\$27,006)	(\$27,006)	3.25	(\$73)	(\$27,079)
3	JUL	(\$27,079)			(\$27,079)	(\$27,079)	3.25	(\$73)	(\$27,152)
4	AUG	(\$27,152)			(\$27,152)	(\$27,152)	3.25	(\$74)	(\$27,226)
5	SEP	(\$27,226)			(\$27,226)	(\$27,226)	3.25	(\$74)	(\$27,300)
6	OCT	(\$27,300)			(\$27,300)	(\$27,300)	3.25	(\$74)	(\$27,374)
7	NOV	(\$27,374)	\$69,409	-	\$42,035	\$7,331	3.25	\$20	\$42,055
8	DEC	\$42,055	\$179,804	-	\$221,859	\$131,957	3.25	\$357	\$222,216
9	JAN 2011	\$222,216	(\$6,129)	-	\$216,087	\$219,152	3.25	\$594	\$216,681
10	FEB	\$216,681	(\$27,517)	-	\$189,164	\$202,923	3.25	\$550	\$189,714
11	MAR	\$189,714	(\$77,675)	-	\$112,039	\$150,877	3.25	\$409	\$112,448
12	APR	\$112,448	(\$112,600)	-	(\$152)	\$56,148	3.25	\$152	\$0
								<u>\$1,641</u>	

BEG. BAL. W/INTEREST = -OVER/UNDER BEG.BAL. @ MAY 10 + INTEREST EXPENSE MAY 10 THROUGH OCT 10

$$\begin{array}{rcl}
 & = & \text{COL. 1, LINE 1} & + & \text{COL. 7, LINES 1 TO 12} \\
 & = & \underline{\underline{(\$26,933)}} & + & \underline{\underline{\$1,641}} \\
 & = & \underline{\underline{(\$25,292)}} & &
 \end{array}$$

NEW HAMPSHIRE GAS CORPORATION
PROPANE INVENTORY
FOR THE WINTER PERIOD NOVEMBER 2010 TO APRIL 2011

LINE NO.							
1	September 2010 (Actual)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>		
2							
3	Beginning Balance	55,609	\$78,276	\$1.4076	\$1.2880		
4	Received during month	16,513	\$26,320	\$1.5939	\$1.4585		
5	Total Available	72,122	\$104,596	\$1.4503	\$1.3270		
6	Less Vapor	43,734	\$63,426	\$1.4503	\$1.3270		
7	Ending Balance	28,388	\$41,170	\$1.4503	\$1.3270		
8							
9							
10	October 2010 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>		
11							
12	Beginning Balance	28,388	\$41,170	\$1.4503	\$1.3270		
13	Received during month	145,000	\$241,454	\$1.6652	\$1.5237		
14	Total Available	173,388	\$282,624	\$1.6300	\$1.4915		
15	Less Vapor	87,274	\$142,257	\$1.6300	\$1.4915		
16	Ending Balance	86,114	\$140,367	\$1.6300	\$1.4915		
17							
18							
19	November 2010 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
20							
21	Beginning Balance	86,114	\$140,367	\$1.6300	\$1.4915		
22	Received during month	130,000	\$220,129	\$1.6933	\$1.5494		
23	Total Available	216,114	\$360,496	\$1.6681	\$1.5263		
24	Less Vapor	124,782	\$208,149	\$1.6681	\$1.5263	124,782	\$208,149
25	Ending Balance	91,332	\$152,347	\$1.6681	\$1.5263		
26							
27							
28	December 2010 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
29							
30	Beginning Balance	91,332	\$152,347	\$1.6681	\$1.5263		
31	Received during month	220,000	\$374,196	\$1.7009	\$1.5564		
32	Total Available	311,332	\$526,545	\$1.6913	\$1.5476		
33	Less Vapor	218,385	\$369,355	\$1.6913	\$1.5476	218,385	\$369,355
34	Ending Balance	92,947	\$157,190	\$1.6913	\$1.5476		
35							
36							
37	January 2011 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
38							
39	Beginning Balance	92,947	\$157,190	\$1.6913	\$1.5476		
40	Received during month	250,000	\$380,350	\$1.5214	\$1.3921		
41	Total Available	342,947	\$537,540	\$1.5674	\$1.4342		
42	Less Vapor	252,293	\$395,445	\$1.5674	\$1.4342	252,293	\$395,445
43	Ending Balance	90,654	\$142,095	\$1.5674	\$1.4342		
44							
45							
46	February 2011 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
47							
48	Beginning Balance	90,654	\$142,095	\$1.5674	\$1.4342		
49	Received during month	215,000	\$326,650	\$1.5193	\$1.3902		
50	Total Available	305,654	\$468,745	\$1.5336	\$1.4033		
51	Less Vapor	216,846	\$332,556	\$1.5336	\$1.4033	216,846	\$332,556
52	Ending Balance	88,808	\$136,189	\$1.5335	\$1.4032		
53							
54							
55	March 2011 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
56							
57	Beginning Balance	88,808	\$136,189	\$1.5335	\$1.4032		
58	Received during month	160,000	\$238,512	\$1.4907	\$1.3640		
59	Total Available	248,808	\$374,701	\$1.5060	\$1.3780		
60	Less Vapor	166,793	\$251,191	\$1.5060	\$1.3780	166,793	\$251,191
61	Ending Balance	82,015	\$123,510	\$1.5060	\$1.3780		
62							
63							
64	April 2011 (Forecasted)	<u>Therms</u>	<u>Cost</u>	<u>Therm</u>	<u>Gal.</u>	<u>Therms</u>	<u>Cost</u>
65							
66	Beginning Balance	82,015	\$123,510	\$1.5060	\$1.3780		
67	Received during month	75,000	\$109,643	\$1.4619	\$1.3377		
68	Total Available	157,015	\$233,153	\$1.4849	\$1.3587		
69	Less Vapor	88,719	\$131,739	\$1.4849	\$1.3587	88,719	\$131,739
70	Ending Balance	68,296	\$101,414	\$1.4849	\$1.3587		
71							
72				TOTALS	\$1.58120	1,067,818	\$1,688,434

New Hampshire Gas Corporation
 Fixed Price Option Program
 Forecasted 2010-2011 Winter Period vs. Actual 2009-2010 Winter Period

Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Typical Residential Heating Bill															
12 MOS ENDED 4/2010	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Residential Heating Typical Usage:	109	150	187	188	166	132	932	90	55	30	30	42	71	318	1,250
Winter:															
Cust. Chg.	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$49.20								
Delivery Charge:															
First 80 therms @ \$1.0694	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$513.29								
Next 120 therms @ \$0.8614	\$24.98	\$60.29	\$92.16	\$93.03	\$74.08	\$44.79	\$389.33								
Over 200 therms @ \$0.7118	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
Summer:															
Cust. Chg.								\$7.00	\$7.00	\$7.00	\$7.00	\$7.00	\$7.00	\$42.00	\$91.20
Delivery Charge:															
First 80 therms @ \$0.9458								\$75.66	\$52.02	\$28.37	\$28.37	\$39.72	\$67.15	\$291.31	\$804.60
Next 120 therms @ \$0.7378								\$7.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.38	\$396.71
Over 200 therms @ \$0.5882								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Customer Charge/Base Rate Amount	\$118.73	\$154.04	\$185.91	\$186.77	\$167.82	\$138.54	\$951.82	\$90.04	\$58.02	\$35.37	\$35.37	\$46.72	\$74.15	\$340.68	\$1,292.50
Rate Case Surcharge	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenues Surcharge	\$6.43	\$8.85	\$11.03	\$11.09	\$9.79	\$7.79	\$54.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54.99
CGA Rates - (Seasonal)	\$1.3402	\$1.3402	\$1.3402	\$1.3402	\$1.3402	\$1.3402		\$1.0537	\$1.1165	\$1.3171	\$1.3171	\$1.3171	\$1.3171	\$1.2079	
Total COG	\$146.08	\$201.03	\$250.62	\$251.96	\$222.47	\$176.91	\$1,249.07	\$94.83	\$61.41	\$39.51	\$39.51	\$65.32	\$93.51	\$384.10	\$1,633.17
Total Bill	\$271	\$364	\$448	\$450	\$400	\$323	\$2,256	\$185	\$120	\$75	\$75	\$102	\$168	\$725	\$2,981
Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Typical Residential Heating Bill															
12 MOS ENDED 4/2011	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Residential Heating Typical Usage:	109	150	187	188	166	132	932	90	55	30	30	42	71	318	1,250
Winter:															
Cust. Chg.	\$8.60	\$8.60	\$8.60	\$8.60	\$8.60	\$8.60	\$51.60								
Delivery Charge:															
First 80 therms @ \$1.1108	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$533.17								
Next 120 therms @ \$0.9028	\$26.18	\$63.19	\$96.60	\$97.50	\$77.64	\$46.94	\$408.05								
Over 200 therms @ \$0.7532	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
Summer:															
Cust. Chg.								\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$49.20	\$100.80
Delivery Charge:															
First 80 therms @ \$1.0694								\$85.55	\$58.81	\$32.08	\$32.08	\$44.91	\$75.92	\$329.36	\$862.53
Next 120 therms @ \$0.8614								\$8.61	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.61	\$416.66
Over 200 therms @ \$0.7118								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Customer Charge/Base Rate Amount	\$123.64	\$160.65	\$194.06	\$194.96	\$175.10	\$144.41	\$992.82	\$102.36	\$67.01	\$40.28	\$40.28	\$53.11	\$84.12	\$387.17	\$1,379.99
Seasonal Cust. Charge/Base Rate Diff. from previous year							\$41.00							\$46.49	\$87.49
Seasonal Percent Change from previous year							4.3%							13.6%	6.8%
Rate Case Surcharge	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851		
Total Rate Case Surcharge	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.66	\$4.68	\$2.55	\$2.55	\$3.57	\$6.04	\$27.06	\$27.06
CGA Rates - (Seasonal)	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356		\$1.6796	\$1.6796	\$1.5444	\$1.5444	\$1.6303	\$1.6303	\$1.6366	
Total COG	\$178.28	\$245.34	\$305.86	\$307.49	\$271.51	\$215.90	\$1,524.38	\$151.16	\$92.38	\$46.33	\$46.33	\$68.47	\$115.75	\$520.43	\$2,044.81
Seasonal COG Difference from previous year							\$275.31							\$136.33	\$411.64
Seasonal Percent Change from previous year							22.0%							35.5%	25.2%
Total Bill	\$302	\$406	\$500	\$502	\$447	\$360	\$2,517	\$261	\$164	\$89	\$89	\$125	\$206	\$935	\$3,452
Seasonal Total Bill Difference from previous year							\$261.32							\$210	\$471
Seasonal Percent Change from previous year							11.6%							29.0%	15.8%
Seasonal Percent Change resulting from Base Rates							1.8%							6.4%	2.9%
Seasonal Percent Change resulting from COG							12.2%							18.8%	13.8%

New Hampshire Gas Corporation
 Non-Fixed Price Option Program
 Forecasted 2010-2011 Winter Period vs. Actual 2009-2010 Winter Period

Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Typical Residential Heating Bill															
12 MOS ENDED 4/2010	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Typical Usage:	109	150	187	188	166	132	932	90	55	30	30	42	71	318	1,250
Residential Heating															
Winter:															
Cust. Chg.	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$49.20								
Delivery Charge:															
First 80 therms @ \$1.0694	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$513.29								
Next 120 therms @ \$0.8614	\$24.98	\$60.29	\$92.16	\$93.03	\$74.08	\$44.79	\$389.33								
Over 200 therms @ \$0.7118	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
Summer:															
Cust. Chg.								\$7.00	\$7.00	\$7.00	\$7.00	\$7.00	\$7.00	\$42.00	\$91.20
Delivery Charge:															
First 80 therms @ \$0.9458								\$75.66	\$52.02	\$28.37	\$28.37	\$39.72	\$67.15	\$291.31	\$804.60
Next 120 therms @ \$0.7378								\$7.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.38	\$396.71
Over 200 therms @ \$0.5882								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Customer Charge/Base Rate Amount	\$118.73	\$154.04	\$185.91	\$186.77	\$167.82	\$138.54	\$951.82	\$90.04	\$59.02	\$35.37	\$35.37	\$46.72	\$74.15	\$340.68	\$1,292.50
Deferred Revenues Surcharge	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Deferred Revenues Surcharge	\$6.43	\$8.85	\$11.03	\$11.09	\$9.79	\$7.79	\$54.99	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$54.99
CGA Rates - (Seasonal)	\$1.3743	\$1.3743	\$1.4796	\$1.5103	\$1.6374	\$1.5178	\$1.4900	\$1.0537	\$1.1165	\$1.3171	\$1.3171	\$1.3171	\$1.3171	\$1.2079	
Total COG	\$149.80	\$206.15	\$276.69	\$283.94	\$271.81	\$200.35	\$1,388.72	\$94.83	\$61.41	\$39.51	\$39.51	\$55.32	\$93.51	\$384.10	\$1,772.82
Total Bill	\$275	\$369	\$474	\$482	\$449	\$347	\$2,396	\$185	\$120	\$75	\$75	\$102	\$168	\$725	\$3,120
Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Typical Residential Heating Bill															
12 MOS ENDED 4/2011	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Typical Usage:	109	150	187	188	166	132	932	90	55	30	30	42	71	318	1,250
Residential Heating															
Winter:															
Cust. Chg.	\$8.60	\$8.60	\$8.60	\$8.60	\$8.60	\$8.60	\$51.60								
Delivery Charge:															
First 80 therms @ \$1.1108	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$533.17								
Next 120 therms @ \$0.9028	\$28.18	\$63.19	\$96.60	\$97.50	\$77.64	\$46.94	\$408.05								
Over 200 therms @ \$0.7532	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00								
Summer:															
Cust. Chg.								\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$8.20	\$49.20	\$100.80
Delivery Charge:															
First 80 therms @ \$1.0694								\$85.55	\$58.81	\$32.08	\$32.08	\$44.91	\$75.92	\$329.36	\$862.53
Next 120 therms @ \$0.8614								\$8.61	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.61	\$416.66
Over 200 therms @ \$0.7118								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total Customer Charge/Base Rate Amount	\$123.64	\$160.65	\$194.06	\$194.96	\$175.10	\$144.41	\$992.82	\$102.36	\$67.01	\$40.28	\$40.28	\$53.11	\$84.12	\$387.17	\$1,379.99
Seasonal Cust. Charge/Base Rate Diff. from previous year							\$41.00							\$46.49	\$87.40
Seasonal Percent Change from previous year							4.3%							13.6%	6.8%
Rate Case Surcharge	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.000	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851
Total Rate Case Surcharge	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7.66	\$4.68	\$2.55	\$2.55	\$3.57	\$6.04	\$27.06	\$27.06
CGA Rates - (Seasonal)	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6796	\$1.6796	\$1.5444	\$1.5444	\$1.6303	\$1.6303	\$1.6366	
Total COG	\$178.28	\$245.34	\$305.86	\$307.49	\$271.51	\$215.90	\$1,524.38	\$151.16	\$92.38	\$46.33	\$46.33	\$68.47	\$115.75	\$520.43	\$2,044.81
Seasonal COG Difference from previous year							\$135.66							\$136.33	\$271.99
Seasonal Percent Change from previous year							9.8%							35.5%	15.3%
Total Bill	\$302	\$406	\$500	\$502	\$447	\$360	\$2,517	\$261	\$164	\$89	\$89	\$125	\$206	\$935	\$3,452
Seasonal Total Bill Difference from previous year							\$121.67							\$210	\$332
Seasonal Percent Change from previous year							5.1%							29.0%	10.6%
Seasonal Percent Change resulting from Base Rates							1.7%							6.4%	2.8%
Seasonal Percent Change resulting from COG							5.7%							18.8%	8.7%

New Hampshire Gas Corporation
 Fixed Price Option Program
 Forecasted 2010-2011 Winter Period vs. Actual 2009-2010 Winter Period

Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Commercial Bill															
12 MOS ENDED 4/2010	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Commercial Typical Usage:	193	269	298	262	234	171	1,427	117	81	72	72	89	142	573	2,000
Winter:															
Cust. Chg.	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$98.40								
Delivery Charge:															
First 80 therms @ \$1.0694	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$513.29								
Next 120 therms @ \$0.8614	\$97.33	\$103.36	\$103.36	\$103.36	\$103.36	\$78.38	\$589.16								
Over 200 therms @ \$0.7118	\$0.00	\$49.11	\$69.75	\$44.13	\$24.20	\$0.00	\$187.19								
Summer:															
Cust. Chg.								\$14.00	\$14.00	\$14.00	\$14.00	\$14.00	\$14.00	\$84.00	\$182.40
Delivery Charge:															
First 80 therms @ \$0.9458								\$75.66	\$75.66	\$68.10	\$68.10	\$75.66	\$75.66	\$438.85	\$952.14
Next 120 therms @ \$0.7378								\$27.30	\$0.74	\$0.00	\$0.00	\$6.64	\$45.74	\$80.42	\$669.58
Over 200 therms @ \$0.5882								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$187.19
Total Customer Charge/Base Rate Amount	\$199.28	\$254.42	\$275.06	\$249.44	\$229.51	\$180.33	\$1,388.04	\$116.96	\$90.40	\$82.10	\$82.10	\$96.30	\$135.41	\$603.27	\$1,991.32
Rate Case Surcharge	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590		\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		
Deferred Revenues Surcharge	\$11.39	\$15.87	\$17.58	\$15.46	\$13.81	\$10.09	\$84.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84.19
CGA Rates - (Seasonal)	\$1.3402	\$1.3402	\$1.3402	\$1.3402	\$1.3402	\$1.3402		\$1.0537	\$1.1165	\$1.3171	\$1.3171	\$1.3171	\$1.3171	\$1.2350	
Total COG	\$258.66	\$360.51	\$399.38	\$351.13	\$313.61	\$229.17	\$1,912.47	\$123.28	\$90.44	\$94.83	\$94.83	\$117.22	\$187.03	\$707.63	\$2,620.10
Total Bill	\$469	\$631	\$692	\$616	\$557	\$420	\$3,385	\$240	\$181	\$177	\$177	\$214	\$322	\$1,311	\$4,696
Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Commercial Bill															
12 MOS ENDED 4/2011	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Commercial Typical Usage:	193	269	298	262	234	171	1,427	117	81	72	72	89	142	573	2,000
Winter:															
Cust. Chg.	\$17.20	\$17.20	\$17.20	\$17.20	\$17.20	\$17.20	\$103.20								
Delivery Charge:															
First 80 therms @ \$1.1108	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$533.17								
Next 120 therms @ \$0.9028	\$102.01	\$108.33	\$108.33	\$108.33	\$108.33	\$82.15	\$617.49								
Over 200 therms @ \$0.7532	\$0.00	\$51.97	\$73.81	\$46.70	\$25.61	\$0.00	\$198.08								
Summer:															
Cust. Chg.								\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$98.40	\$201.60
Delivery Charge:															
First 80 therms @ \$1.0694								\$85.55	\$85.55	\$76.99	\$76.99	\$85.55	\$85.55	\$496.18	\$1,029.35
Next 120 therms @ \$0.8614								\$31.87	\$0.86	\$0.00	\$0.00	\$7.75	\$53.40	\$93.89	\$711.38
Over 200 therms @ \$0.7118								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$198.08
Total Customer Charge/Base Rate Amount	\$208.07	\$266.36	\$288.20	\$261.09	\$240.00	\$188.21	\$1,451.94	\$133.82	\$102.81	\$93.39	\$93.39	\$109.70	\$155.35	\$688.47	\$2,140.41
Seasonal Cust. Charge/Base Rate Diff. from previous year							\$63.90							\$85.20	\$149.09
Seasonal Percent Change from previous year							4.6%							14.1%	7.5%
Rate Case Surcharge	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000		\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851		
Total Rate Case Surcharge	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.96	\$6.89	\$6.13	\$6.13	\$7.57	\$12.08	\$48.76	\$48.76
CGA Rates - (Seasonal)	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356		\$1.6796	\$1.6796	\$1.5444	\$1.5444	\$1.6303	\$1.6303	\$1.6257	
Total COG	\$315.67	\$439.98	\$487.41	\$428.53	\$382.73	\$279.69	\$2,334.00	\$196.51	\$136.05	\$111.20	\$111.20	\$145.10	\$231.50	\$931.55	\$3,265.55
Seasonal COG Difference from previous year							\$421.54							\$223.92	\$645.46
Seasonal Percent Change from previous year							22.0%							31.6%	24.6%
Total Bill	\$524	\$706	\$776	\$690	\$623	\$468	\$3,786	\$340	\$246	\$211	\$211	\$262	\$399	\$1,669	\$5,455
Seasonal Total Bill Difference from previous year							\$401.24							\$358	\$759
Seasonal Percent Change from previous year							11.9%							27.3%	16.2%
Seasonal Percent Change resulting from Base Rates							1.9%							6.5%	3.2%
Seasonal Percent Change resulting from COG							12.5%							17.1%	13.7%

New Hampshire Gas Corporation
 Non-Fixed Price Option Program
 Forecasted 2010-2011 Winter Period vs. Actual 2009-2010 Winter Period

Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Commercial Bill															
12 MOS ENDED 4/2010	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Commercial Typical Usage:	193	269	298	262	234	171	1427	117	81	72	72	89	142	573	2,000
Winter:															
Cust. Chg.	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$98.40								
Delivery Charge:															
First 80 therms @ \$1.0694	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$85.55	\$513.29								
Next 120 therms @ \$0.8614	\$97.33	\$103.36	\$103.36	\$103.36	\$103.36	\$78.38	\$589.16								
Over 200 therms @ \$0.7118	\$0.00	\$49.11	\$69.75	\$44.13	\$24.20	\$0.00	\$187.19								
Summer:															
Cust. Chg.								\$14.00	\$14.00	\$14.00	\$14.00	\$14.00	\$14.00	\$84.00	\$182.40
Delivery Charge:															
First 80 therms @ \$0.9458								\$75.66	\$75.66	\$68.10	\$68.10	\$75.66	\$75.66	\$438.85	\$952.14
Next 120 therms @ \$0.7378								\$27.30	\$0.74	\$0.00	\$0.00	\$6.64	\$45.74	\$80.42	\$669.58
Over 200 therms @ \$0.5882								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$187.19
Total Customer Charge/Base Rate Amount	\$199.28	\$254.42	\$275.06	\$249.44	\$229.51	\$180.33	\$1,388.04	\$116.96	\$90.40	\$82.10	\$82.10	\$96.30	\$135.41	\$603.27	\$1,991.32
Rate Case Surcharge	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0590	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000
Deferred Revenues Surcharge	\$11.39	\$15.87	\$17.58	\$15.46	\$13.81	\$10.09	\$84.19	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84.19
CGA Rates - (Seasonal)	\$1.3743	\$1.3743	\$1.4796	\$1.5103	\$1.6374	\$1.5178	\$1.4816	\$1.0537	\$1.1165	\$1.3171	\$1.3171	\$1.3171	\$1.3171	\$1.2350	
Total COG	\$265.24	\$369.69	\$440.92	\$395.70	\$383.15	\$259.54	\$2,114.24	\$123.28	\$90.44	\$94.83	\$94.83	\$117.22	\$187.03	\$707.63	\$2,821.87
Total Bill	\$476	\$640	\$734	\$661	\$626	\$450	\$3,586	\$240	\$181	\$177	\$177	\$214	\$322	\$1,311	\$4,897

Shows the effect of the Unit Cost of Gas, Delivery Charge, & Base Rate Charge Commercial Bill															
12 MOS ENDED 4/2011	November	December	January	February	March	April	Winter Nov-Apr	May	June	July	August	September	October	Summer May-Oct	Total Nov-Oct
Commercial Typical Usage:	193	269	298	262	234	171	1,427	117	81	72	72	89	142	573	2,000
Winter:															
Cust. Chg.	\$17.20	\$17.20	\$17.20	\$17.20	\$17.20	\$17.20	\$103.20								
Delivery Charge:															
First 80 therms @ \$1.1108	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$88.86	\$533.17								
Next 120 therms @ \$0.9028	\$102.01	\$108.33	\$108.33	\$108.33	\$108.33	\$82.15	\$617.49								
Over 200 therms @ \$0.7532	\$0.00	\$51.97	\$73.81	\$46.70	\$25.61	\$0.00	\$198.08								
Summer:															
Cust. Chg.								\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$16.40	\$98.40	\$201.60
Delivery Charge:															
First 80 therms @ \$1.0694								\$85.55	\$85.55	\$76.99	\$76.99	\$85.55	\$85.55	\$496.18	\$1,029.35
Next 120 therms @ \$0.8614								\$31.87	\$0.86	\$0.00	\$0.00	\$7.75	\$53.40	\$93.89	\$711.38
Over 200 therms @ \$0.7118								\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$198.08
Total Customer Charge/Base Rate Amount	\$208.07	\$266.36	\$288.20	\$261.09	\$240.00	\$188.21	\$1,451.94	\$133.82	\$102.81	\$93.39	\$93.39	\$109.70	\$155.35	\$688.47	\$2,140.41
Seasonal Cust. Charge/Base Rate Diff. from previous year							\$63.90							\$85.20	\$149.09
Seasonal Percent Change from previous year							4.6%							14.1%	7.5%
Rate Case Surcharge	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0000	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851	\$0.0851
Total Rate Case Surcharge	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9.96	\$8.89	\$6.13	\$6.13	\$7.57	\$12.08	\$48.76	\$48.76
CGA Rates - (Seasonal)	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6356	\$1.6796	\$1.6796	\$1.5444	\$1.5444	\$1.6303	\$1.6303	\$1.6303	\$1.6257	
Total COG	\$315.67	\$439.98	\$487.41	\$428.53	\$382.73	\$279.69	\$2,334.00	\$196.51	\$136.05	\$111.20	\$111.20	\$145.10	\$231.50	\$931.55	\$3,265.55
Seasonal COG Difference from previous year							\$219.76							\$223.92	\$443.68
Seasonal Percent Change from previous year							10.4%							31.6%	15.7%
Total Bill	\$524	\$706	\$776	\$690	\$623	\$468	\$3,786	\$340	\$246	\$211	\$211	\$262	\$399	\$1,669	\$5,455
Seasonal Total Bill Difference from previous year							\$199.47							\$358	\$557
Seasonal Percent Change from previous year							5.6%							27.3%	11.4%
Seasonal Percent Change resulting from Base Rates							1.8%							6.5%	3.0%
Seasonal Percent Change resulting from COG							6.1%							17.1%	9.1%

Propane Market Purchase Cost Analysis
WINTER 2010 - 2011

LINE
NO.

LINE NO.		<u>Mt. Belvieu</u>	+	<u>Broker Fees</u>	=		+	<u>Pipeline Fees</u>	=		+	<u>@ Selkirk</u>	+	<u>PERC</u>	+	<u>Truck to Keene</u>	=	<u>\$ per Gal.</u>	=	<u>Them</u>	
1																					
2																					
3																					
4	NOV	1.2579	+	0.0100	=	1.2679	+	0.0930	=	1.3609	+	0.0050	+	0.2300	=	1.5959	=	1.7441			
5																					
6	DEC	1.2604	+	0.0100	=	1.2704	+	0.0930	=	1.3634	+	0.0050	+	0.2300	=	1.5984	=	1.7469			
7																					
8	JAN	1.2638	+	0.0100	=	1.2738	+	0.1125	=	1.3863	+	0.0050	+	0.0690	=	1.4603	=	1.5959			
9																					
10	FEB	1.2354	+	0.0100	=	1.2454	+	0.1125	=	1.3579	+	0.0050	+	0.0690	=	1.4319	=	1.5649			
11																					
12	MAR	1.1708	+	0.0100	=	1.1808	+	0.1125	=	1.2933	+	0.0050	+	0.0690	=	1.3673	=	1.4943			
13																					
14	APR	1.1101	+	0.0100	=	1.1201	+	0.1125	=	1.2326	+	0.0050	+	0.0690	=	1.3066	=	1.4279			
15																					
16																					

17 Mt. Belvieu settlement prices based on Clearport propane futures market quotations as of 10/08/2010.

18 Website: http://quotes.ino.com/exchanges/contracts.html?r=CLRP_B0

Surcharge

n/a

New Hampshire Gas Corporation COG FPO vs Non-FPO Price Comparison									
Winter Period	FPO Rate	Amount of Premium	Percent Participation (therms)	Actual FPO Volumes	Premium Revenue	Typical Residential FPO bill	Average Non-FPO Rate	Typical Residential non-FPO bill	Cost/(Savings) to FPO Customers
2009-2010	\$1.3402	\$0.02	17.12%	163,486	\$3,270	\$2,256	\$1.4900	\$2,396	(\$140)
2008-2009	\$2.2408	\$0.02	21.08%	205,970	\$4,119	\$2,974	\$1.7347	\$2,492	\$482
2007-2008	\$1.5212	\$0.02	28.01%	266,419	\$5,328	\$2,288	\$1.7646	\$2,520	(\$232)
2006-2007	\$1.4741	\$0.02	21.86%	206,686	\$4,134	\$2,250	\$1.5397	\$2,313	(\$63)
2005-2006	\$1.5260	\$0.02	42.91%	348,849	\$6,977	\$2,248	\$1.3742	\$2,103	\$145
2004-2005	\$1.2323	n/a	39.44%	340,315	n/a	\$1,946	\$1.2647	\$1,976	(\$30)
2003-2004	\$0.8877	n/a	38.78%	316,300	n/a	\$1,580	\$1.0325	\$1,718	(\$138)
Total						\$15,542		\$15,517	\$25

New Hampshire Gas Corporation - Winter 2010/11
Weather Normalization - Firm Sendout

Month	Actual Firm Sendout	Base Use	Heat Use	Actual Calendar Month Degree Days	Normal Calendar Month Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normalized Firm Sendout	Actual Company Use	Unaccounted For 1.66%	Total Firm Sendout
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
			(1) - (2)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)		(10 - 11) * 1.66%	(10) - (11) + (12)
November	112,038	42,074	69,964	691	797	(106)	101.25	10,766	80,730	122,804	3,675	1,978	121,107
December	222,014	42,074	179,940	1,229	1,181	48	146.41	(7,091)	172,849	214,923	6,364	3,462	212,021
January	237,491	42,074	195,417	1,297	1,369	(72)	150.67	10,798	206,215	248,289	7,085	4,004	245,208
February	193,085	42,074	151,011	1,005	1,140	(135)	150.26	20,310	171,321	213,395	5,530	3,451	211,316
March	139,205	42,074	97,131	786	988	(202)	123.58	24,934	122,065	164,139	4,236	2,654	162,557
April	78,527	42,074	36,453	481	597	(116)	75.79	8,791	45,244	87,318	2,911	1,401	85,808
Total	982,360	252,444	729,916	5,489	6,072	(583)		68,508	798,424	1,050,868	29,801	16,950	1,038,017

New Hampshire Gas Corporation Weather Normalization - Sales Rate Residential											
Month	Billing Cycle Customers	Billing Cycle Sales	Base Load	Heating Load	Billing Cycle Monthly Actual Degree Days	Billing Cycle Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (3)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
November	800	20,474	7,301	13,174	614	569	45	21.44	(967)	12,206	19,507
December	811	27,871	7,301	20,571	769	853	(84)	26.73	2,239	22,810	30,110
January	812	59,391	7,301	52,091	1,197	1,220	(23)	43.51	979	53,069	60,370
February	823	49,622	7,301	42,322	1,238	1,323	(84)	34.17	2,884	45,206	52,506
March	819	41,917	7,301	34,617	966	1,113	(147)	35.84	5,273	39,889	47,190
April	811	29,826	7,301	22,526	736	924	(188)	30.61	5,745	28,270	35,571
Total		229,101	43,803	185,298	5,521	6,002	(480)	192	16,152	201,450	245,253

New Hampshire Gas Corporation Weather Normalization - Sales Rate Commercial											
Month	Billing Cycle Customers	Billing Cycle Sales	Base Load	Heating Load	Billing Cycle Monthly Actual Degree Days	Billing Cycle Monthly Normal Degree Days	Colder (Warmer) Than Normal	Actual Unit Heat Load Therm/DD	Weather Adjustment	Normal Heat Load	Normal Firm Billing Cycle Therms
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
				(1) - (3)			(4) - (5)	(3) / (4)	(6) X (7)	(3) + (8)	(1) - (3) + (9)
November	330	68,482	30,470	38,013	612	561	51	62.16	(3,166)	34,847	65,316
December	339	79,933	30,470	49,464	752	841	(89)	65.79	5,845	55,308	85,778
January	341	182,639	30,470	152,170	1,191	1,211	(20)	127.73	2,505	154,674	185,144
February	333	159,286	30,470	128,817	1,253	1,334	(81)	102.80	8,349	137,166	167,635
March	318	137,832	30,470	107,363	972	1,117	(145)	110.46	16,040	123,403	153,872
April	342	96,853	30,470	66,384	749	940	(191)	88.65	16,960	83,344	113,813
Total		725,025	182,817	542,208	5,529	6,004	(475)	558	46,534	588,742	771,559

November	84,823
December	115,888
January	245,514
February	220,142
March	201,062
April	149,384
Total Winter Sales Volumes	<u>1,016,812</u>