

NORTHERN UTILITIES, INC. - NEW HAMSHIRE DIVISION
Summer 2013 Cost of Gas Filing

Table of Contents

Tab	Title	Description
	Summary	Summary
	Kahl Testimony	Pre-Filed Testimony
	Wells Testimony	Pre-Filed Testimony
	Conneely Testimony	Pre-Filed Testimony
1	Schedule 1A	NH Allocated Demand Costs Assigned to NH Peak & Off-Peak
	Schedule 1B	NH Allocated Commodity Costs Assigned to NH Peak & Off-Peak
2	Schedule 2	Contracts Ranked on a Per-Unit Cost Basis
3	Schedule 3A	COG (Over)/Under Cumulative Recovery Balances and Interest Calculation
	Schedule 3B	Bad Debt Calculation
4	Schedule 4	Reserved for Future Use
5	Schedule 5A	Demand Cost Forecast
	Attachment	Rate Cost Support
	Schedule 5B	Capacity Assignment Revenues
	Schedule 5C	PNGTS Litigation Costs – Winter Filing Only
6	Schedule 6A	Commodity Cost Forecast
	Schedule 6B	Detailed City Gate Cost Calculations
7	Schedule 7	Hedging Program Gains and Losses
8	Schedule 8	Typical Bill Analyses
9	Schedule 9	Variance Analysis of the Cost of Gas Rate Components
10	Schedule 10A	Allocation of Capacity Costs to Firm Sales Rate Classes
	Schedule 10B	Forecast Firm Sales
	Attachment	Metered Distribution Deliveries and Meter Counts
	Attachment	Sales Service Deliveries Forecast by Rate Class
	Attachment	Company Gas Allowance Calculations
	Schedule 10C	Allocation of Commodity Costs to Firm Sales Rate Classes
11	Schedule 11A	Normal Year Sendout Volumes
	Schedule 11B	Design Year Sendout Volumes – Winter Filing Only
	Schedule 11C	Capacity Utilization
	Schedule 11D	Forecast of Upcoming Winter Period Design Day Report – Winter Filing Only
	Schedule 11E	New Hampshire 7 Day Cold Snap Analysis – Winter Filing Only
12	Schedule 12	Capacity Path Diagrams and Details by Supply Source
13	Schedule 13	Load Migration from Sales to Transportation
14	Schedule 14	Inventory Activity
15	Schedule 15	Summer 2012 Cost of Gas Reconciliation

Summary

**N.H.P.U.C No.10
 NORTHERN UTILITIES, INC.**

Anticipated Cost of Gas

Summary Schedule

New Hampshire Division
 Period Covered: May 1, 2013 - October 31, 2013

Column A	Column B	Column C
1 <u>ANTICIPATED DIRECT COST OF GAS</u>		
2 Purchased Gas:		
3 Demand Costs:	\$ 684,707	
4 Supply Costs:	\$ 2,920,655	
5		
6 Storage & Peaking Gas:		
7 Demand, Capacity:	\$ 365,241	
8 Commodity Costs:	\$ 21,832	
9		
10 Hedging (Gain)/Loss	\$ (1,664)	
11		
12 Interruptible Included Above	\$ -	
13		
14 Capacity Release	\$ -	
15		
16 Adjustment for Actual Costs	\$ -	
17		
18 Total Anticipated Direct Cost of Gas		\$ 3,990,771
19		
20 <u>ANTICIPATED INDIRECT COST OF GAS</u>		
21 Adjustments:		
22 Prior Period Under/(Over) Collection	\$ 147,647	
23 Prior Period Adjustment (ATV Reconciliation)	\$ -	
24 Interest	\$ 2,290	
25 Refunds	\$ -	
26 Interruptible Margins	\$ -	
27 Total Adjustments		\$ 149,937
28		
29 Working Capital:		
30 Total Anticipated Direct Cost of Gas	\$ 3,990,771	
31 Working Capital Allowance Percentage (9.25[lag days]/365* prime rate*)	<u>0.082%</u>	
32 Working Capital Allowance	\$ 3,287	
33 Plus: Working Capital Reconciliation	<u>\$ 1,289</u>	
34		
35 Total Working Capital Allowance		\$ 4,576
36		
37 Bad Debt:		
38 Projected Bad Debt	\$ 18,660	
39 Plus: Bad Debt Reconciliation (Acct 182.22)	\$ (19,277)	
40		
41 Total Bad Debt Expense		\$ (617)
42		
43 Local Production and Storage Capacity		\$ -
44		
45 Miscellaneous Overhead-21.83% of \$411,601		\$ 89,856
46		
47 Total Anticipated Indirect Cost of Gas		\$ 243,752
48		
49 Total Cost of Gas		\$ 4,234,523
50		

(*) Prime Rate is 3.25%

NORTHERN UTILITIES, INC.

51
 52
 53
 54
 55
 56
 57
 58
 59
 60
 61
 62
 63
 64
 65
 66
 67
 68
 69
 70
 71
 72
 73
 74
 75
 76
 77
 78
 79
 80
 81
 82
 83
 84
 85
 86
 87
 88
 89
 90
 91
 92
 93
 94
 95
 96
 97
 98
 99
 100
 101
 102
 103
 104
 105
 106
 107
 108
 109
 110
 111
 112
 113

CALCULATION OF FIRM SALES COST OF GAS RATE
 Period Covered: May 1, 2013 - October 31, 2013

Column A	Column B	Column C
Total Anticipated Direct Cost of Gas	\$ 3,990,771	
Projected Prorated Sales (05/01/13 - 10/31/13)	7,625,909	
Direct Cost of Gas Rate		\$ 0.5233 per therm
Demand Cost of Gas Rate	\$ 1,049,948	\$ 0.1377 per therm
Commodity Cost of Gas Rate	<u>\$ 2,940,823</u>	<u>\$ 0.3856 per therm</u>
Total Direct Cost of Gas Rate	\$ 3,990,771	\$ 0.5233 per therm
Total Anticipated Indirect Cost of Gas	\$ 243,752	
Projected Prorated Sales (05/01/13 - 10/31/13)	7,625,909	
Indirect Cost of Gas		\$ 0.0320 per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/13		\$ 0.5553 per therm
RESIDENTIAL COST OF GAS RATE - 05/01/13		
	COGwr	\$ 0.5553 per therm
	Maximum (COG+25%)	\$ 0.6941
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/13		
	COGwl	\$ 0.5180 per therm
	Maximum (COG+25%)	\$ 0.6475
C&I HLF Demand Costs Allocated per SMBA	\$ 152,359	
PLUS: Residential Demand Reallocation to C&I HLF	<u>\$ 5,652</u>	
C&I HLF Total Adjusted Demand Costs	\$ 158,011	
C&I HLF Projected Prorated Sales (05/01/13 - 10/31/13)	1,574,665	
Demand Cost of Gas Rate	\$ 0.1003	
C&I HLF Commodity Costs Allocated per SMBA	\$ 607,230	
PLUS: Residential Commodity Reallocation to C&I HLF	<u>\$ 50</u>	
C&I HLF Total Adjusted Commodity Costs	\$ 607,281	
C&I HLF Projected Prorated Sales (05/01/13 - 10/31/13)	1,574,665	
Commodity Cost of Gas Rate	\$ 0.3857	
Indirect Cost of Gas	\$ 0.0320	
Total C&I HLF Cost of Gas Rate	\$ 0.5180	
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/13		
	COGwh	\$ 0.5780 per therm
	Maximum (COG+25%)	\$ 0.7225
C&I LLF Demand Costs Allocated per SMBA	\$ 401,356	
PLUS: Residential Demand Reallocation to C&I LLF	<u>\$ 14,888</u>	
C&I LLF Total Adjusted Demand Costs	\$ 416,243	
C&I LLF Projected Prorated Sales (05/01/13 - 10/31/13)	2,596,680	
Demand Cost of Gas Rate	\$ 0.1603	
C&I LLF Commodity Costs Allocated per SMBA	\$ 1,001,380	
PLUS: Residential Commodity Reallocation to C&I LLF	<u>\$ 83</u>	
C&I LLF Total Adjusted Commodity Costs	\$ 1,001,463	
C&I LLF Projected Prorated Sales (05/01/13 - 10/31/13)	2,596,680	
Commodity Cost of Gas Rate	\$ 0.3857	
Indirect Cost of Gas	\$ 0.0320	
Total C&I LLF Cost of Gas Rate	\$ 0.5780	

N.H.P.U.C No.10
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
 Period Covered: May 1, 2013 - October 31, 2013

Column A	Column D
1 <u>ANTICIPATED DIRECT COST OF GAS</u>	
2 Purchased Gas:	
3 Demand Costs:	Schedule 1A, LN 71
4 Supply Costs:	Schedule 1B, LN 14
5	
6 Storage & Peaking Gas:	
7 Demand, Capacity:	Schedule 1A, LN 73
8 Commodity Costs:	Schedule 1B, LN 16 + Schedule 1B, LN 17
9	
10 Hedging (Gain)/Loss	Schedule 1B, LN 15
11	
12 Interruptible Included Above	-(Schedule 1B, LN 22)
13	
14 Capacity Release	-(Schedule 1A, LN 76)
15	
16 Adjustment for Actual Costs	
17	
18 Total Anticipated Direct Cost of Gas	Sum (LN 3 : LN 16)
19	
20 <u>ANTICIPATED INDIRECT COST OF GAS</u>	
21 Adjustments:	
22 Prior Period Under/(Over) Collection	Schedule 3, LN 108: October
23 Prior Period Adjustment (ATV Reconciliation)	
24 Interest	Schedule 3, LN 115: Total
25 Refunds	Company Analysis
26 Interruptible Margins	-(Schedule 1A, LN 77)
27 Total Adjustments	Sum (LN 22 : LN 26)
28	
29 Working Capital:	
30 Total Anticipated Direct Cost of Gas	LN 18
31 Working Capital Allowance Percentage (9.25[lag days]/365* prime	3rd Rev. Pg 21 IV COG Clause 6.1
32 Working Capital Allowance	LN 30 * LN 31
33 Plus: Working Capital Reconciliation	Schedule 3, LN 85: October 2012
34	
35 Total Working Capital Allowance	Sum (LN 32 : LN 33)
36	
37 Bad Debt:	
38 Projected Bad Debt	Schedule 3B, LN 20
39 Plus: Bad Debt Reconciliation (Acct 182.22)	Schedule 3, LN 96: October
40	
41 Total Bad Debt Expense	Sum (LN 38 : LN 39)
42	
43 Local Production and Storage Capacity	Schedule 1A, LN 84
44	
45 Miscellaneous Overhead-21.83% of \$411,601	Schedule 1A, LN 83
46	
47 Total Anticipated Indirect Cost of Gas	Sum (LN 27 : LN 45)
48	
49 Total Cost of Gas	LN 47 + LN 18
50	

(*) Prime Rate is 3.25%

NORTHERN UTILITIES, INC.

51		
52	51	CALCULATION OF FIRM SALES COST OF GAS RATE
53	52	Period Covered: May 1, 2013 - October 31, 2013
54		
55	Column A	Column D
56		
57	Total Anticipated Direct Cost of Gas	LN 18
58	Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 11
59	Direct Cost of Gas Rate	LN 57 / LN 58
60		
61	Demand Cost of Gas Rate	Column B : SUM (LN 3 , LN 7 , LN 14)
62	Commodity Cost of Gas Rate	Column B : SUM (LN 4 , LN 8 , LN 10 , LN 12)
63	Total Direct Cost of Gas Rate	SUM (LN 61 : LN 62)
64		
65	Total Anticipated Indirect Cost of Gas	LN 47
66	Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 11
67	Indirect Cost of Gas	LN 65 / LN 66
68		
69		
70	TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/13	LN 63 + LN 67
71		
72	RESIDENTIAL COST OF GAS RATE - 05/01/13	LN 70
73		LN 72 * 1.25
74		
75		
76	COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/13	LN 93
77		LN 76 * 1.25
78		
79	C&I HLF Demand Costs Allocated per SMBA	Schedule 10A, LN 169
80	PLUS: Residential Demand Reallocation to C&I HLF	Schedule 23, LN 16
81	C&I HLF Total Adjusted Demand Costs	Sum (LN 79 : LN 80)
82	C&I HLF Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 14
83	Demand Cost of Gas Rate	LN 81 / LN 82
84		
85	C&I HLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 139
86	PLUS: Residential Commodity Reallocation to C&I HLF	Schedule 23, LN 26
87	C&I HLF Total Adjusted Commodity Costs	Sum (LN 85 : LN 86)
88	C&I HLF Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 14
89	Commodity Cost of Gas Rate	LN 87 / LN 88
90		
91	Indirect Cost of Gas	LN 67
92		
93	Total C&I HLF Cost of Gas Rate	Sum (LN 83, LN 89, LN 91)
94		
95		
96	COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/13	LN 113
97		LN 96 * 1.25
98		
99	C&I LLF Demand Costs Allocated per SMBA	Schedule 10A, LN 170
100	PLUS: Residential Demand Reallocation to C&I LLF	Schedule 23, LN 17
101	C&I LLF Total Adjusted Demand Costs	Sum (LN 99 : LN 100)
102	C&I LLF Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 15
103	Demand Cost of Gas Rate	LN 101 / LN 102
104		
105	C&I LLF Commodity Costs Allocated per SMBA	Schedule 10C, LN 140
106	PLUS: Residential Commodity Reallocation to C&I LLF	Schedule 23, LN 27
107	C&I LLF Total Adjusted Commodity Costs	Sum (LN 105 : LN 106)
108	C&I LLF Projected Prorated Sales (05/01/13 - 10/31/13)	Schedule 10B, LN 15
109	Commodity Cost of Gas Rate	LN 107 / LN 108
110		
111	Indirect Cost of Gas	LN 67
112		
113	Total C&I LLF Cost of Gas Rate	Sum (LN 103, LN 109, LN 111)

16	Schedule 16	Local Distribution Adjustment Charge Calculation
17	Schedule 17	Environmental Response Cost – Winter Filing Only
18	Schedule 18	Supplier Balancing Charge – Winter Filing Only
19	Schedule 19	Capacity Allocators Calculation – Winter Filing Only
20	Schedule 20	Annual Hedging Program
21	Schedule 21	Allocation of Demand Costs to ME & NH
22	Schedule 22	Allocation of Commodity Costs to ME & NH
23	Schedule 23	Supporting Detail to Proposed Tariff Sheets
24	Schedule 24	Short Term Debt Limit Calculation – Winter Filing Only