



July 25, 2019

Debra Howland
Executive Director and Secretary
New Hampshire Public Utilities Commission
21 S. Fruit St., Suite 10
Concord, NH 03301-2429

Re: Northern Utilities, Inc., New Hampshire Division - Docket DG 18-143
July 2019 Monthly Cost of Gas Report


Dear Director Howland:

Pursuant to the Commission's Order No. 26,186 in Docket DG 18-143, enclosed is Northern Utilities - New Hampshire Division's ("Northern") current calculation of its projected over or under collection of gas costs for the 2018 / 2019 Summer Period.

Northern's current calculation of costs has been updated to reflect the actual April 30, 2019 balance, actual revenues and variable costs for May 2019 through June 2019 and NYMEX futures prices as of July 22, 2019. The updated calculations indicate that a rate change is not required at this time. Support for this decision is provided in the attached summary and tables.

If you have any questions regarding this filing, please do not hesitate to contact me or Chris Kahl at (603)773-6425.

Very truly yours,


George H. Simmons Jr.

Enclosures

cc: Lynn Fabrizio, Esq.
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Northern New Hampshire Monthly Cost of Gas Report

Summer Period

July 2019 Summary

The objective of the Summer Period Monthly Cost of Gas (“COG”) Report is to determine if COG rates need to be adjusted in order to minimize the October 31, 2019 expected end-of-year COG balance. This analysis determines if the October 31, 2019 Summer Period ending balance exceeds the threshold determined in the Company’s Annual COG filing and, if exceeded, a COG rate change lowers the expected end-of-year COG balance.

As shown on Table 1, Line 24, the projected Summer Period ending balance is an under-collection of \$611,422. When combined with the Winter Season over-collection of \$1,057,523 (Line 26), the expected end-of-year COG balance is an over-collection of \$446,101 (Line 28). Although the Summer Period under-collection is greater than 4% of the total projected gas costs, an increase in current Summer Period rates prevents the Summer Period under-collection from offsetting the Winter Period over-collection and reducing the end-of-year COG balance. Therefore, a COG rate change is not required at this time.

Please note that, for July 2019, the Company’s monthly COG model has been modified in order to more fairly account for the significant increase in Asset Management Agreement (“AMA”) revenues collected by the Company beginning May 2019 through April 2020 compared to expected AMA revenues included in the Company’s Annual COG filing made on September 17, 2018. In the Annual COG filing, AMA revenues are estimated based on the existing May through April AMAs under contract and collected evenly over the twelve-month period. However, the COG model is based on the twelve-month period November through October and all AMA revenues are allocated to the Winter Period, November through April because asset managers contract for the Company’s capacity which reflects Winter Period customers’ peak demand, not Summer Period customers’ peak demand. Therefore, significant annual changes in AMA revenues are not reflected in COG rates until the following November.

Historically, year-to-year differences in AMA revenues have not been material. However, for 2019 / 2020, AMA revenues are approximately twice as high (an additional \$7 million) as those for 2018 / 2019. If the Company did not modify its monthly COG model for this July filing, then Summer Period COG rates would be reduced to near zero and create an unfair advantage for non-heating, high load-factor Summer Period customers at the expense of Winter Period customers who are mostly residential. To adjust for this, the Company will continue to reflect in its Summer Period Monthly COG analysis the AMA revenues included in the September 17, 2018 Annual COG filing and not the actual revenues collected. Further, this difference in AMA revenues will be reflected in the 2019 / 2020 Annual COG filing through the 2018 / 2019 COG Annual Reconciliation. This will allow the additional AMA revenues to be allocated fairly and properly between the Winter and Summer Period customers.

Support for the projected October 31, 2019 Summer Period ending balance and end-of-year COG balance is provided in Table 2.

NORTHERN UTILITIES, INC.
 NEW HAMPSHIRE DIVISION
 Calculation of the Projected Over or Under Collection of the
 Summer 2018-2019 Period Cost of Gas
 DG 18-143
 July 2019 Estimated

1	Target April 30, 2019 Target Balance	\$ (2,793,587)	Table 2, PG. 3, Line 104
2			
3	Forecasted firm therm sales 07/01/2019 - 10/31/2019		
4	Residential Heat & Non Heat	2,262,550	Table 2, PG. 2, Line 2
5	HLF Classes	1,213,079	Table 2, PG. 2, Line 3
6	LLF Classes	1,685,822	Table 2, PG. 2, Line 4
7			
8	Current recovery rate per therm		
9	Residential heat & non heat	\$ 0.2646	Table 2, PG. 1, Line 7
10	HLF classes	\$ 0.2245	Table 2, PG. 1, Line 8
11	LLF classes	\$ 0.2934	Table 2, PG. 1, Line 9
12			
13	Total	\$ (1,365,627)	(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14			
15	Forecasted recovered costs at current rates 07/01/2019 - 10/31/2019	\$ (1,365,627)	LN 13
16	Actual Recovered Costs 05/01/2019 - 06/31/2019	\$ (1,239,727)	
17	Estimated total recovered costs 05/01/19 - 10/31/19	\$ (2,605,354)	LN 15 + LN 16
18			
19	Revised projected direct gas costs 05/01/19 - 10/31/19[1]	\$ 5,804,839	Table 2, PG. 2, Line 64, Winter
20	Revised projected indirect gas costs 05/01/19 - 10/31/19 [2]	\$ 205,525	Table 2, PG. 4, Line 96, Winter
21			
22	Total Projected Summer Period Gas Costs	\$ 6,010,363	LN 19 + LN 20
23			
24	Projected October 31, 2019 Summer Season Balance	\$ 611,422	LN 1 + Ln 17 + LN 22
25			
26	Winter Season Variance (Over-collection)	\$ (1,057,523)	Table 2, PG. 4, Line 108
27			
28	Projected End of Year Balance	\$ (446,101)	LN 24 + LN 26
29			
30	Projected October 31, 2019 Summer Season Balance	\$ 611,422	LN 24
31			
32	Projected Summer Period Imbalance Type	Under-collection	
33			
34	Projected Summer Period Imbalance %	10.17%	LN 24 / LN 22
35			
36	Summer Season Over-collection Threshold (4% of Projected Costs)	\$ (240,415)	(LN 22 * 4%)*-1
37			
38	Summer Season Under-collection Threshold (4% Plus Winter Balance)	\$ 1,297,938	((ABS) LN 26 + (ABS) LN 36)
39			
40	Over-Collection Rate Adjustment Required	No	IF LN 30 > LN 36, No ELSE Yes
41			
42	Under-Collection Rate Adjustment Required	No	IF (ABS) LN 30 < (ABS) LN 38, No ELSE Yes

NOTES

[1] Reflects futures prices as of July 22, 2019

[2] Includes: Working Capital Allowance, Bad Debt Allowance, Production and Storage Capacity.

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation**

Sales Revenues		Winter							Summer					
		Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	(Forecast) Jul-19	(Forecast) Aug-19	(Forecast) Sep-19	(Forecast) Oct-19
1	Volumes													
2	Residential Heat & Non Heat										436,849	441,905	461,965	921,830
3	Sales HLF Classes										234,219	236,930	247,685	494,245
4	Sales LLF Classes										325,496	329,262	344,210	686,854
5	Total										996,564	1,008,097	1,053,861	2,102,929
6	Rates													
7	Residential Heat & Non Heat CGA										\$0.2646	\$0.2646	\$0.2646	\$0.2646
8	Sales HLF Classes CGA										\$0.2245	\$0.2245	\$0.2245	\$0.2245
9	Sales LLF Classes CGA										\$0.2934	\$0.2934	\$0.2934	\$0.2934
10	Revenues													
11	Residential Heat & Non Heat										\$ (115,590)	\$ (116,928)	\$ (122,236)	\$ (243,916)
12	Sales HLF Classes										\$ (52,582)	\$ (53,191)	\$ (55,605)	\$ (110,958)
13	Sales LLF Classes										\$ (95,500)	\$ (96,606)	\$ (100,991)	\$ (201,523)
14	Total Sales		\$ (4,156,882)	\$ (5,933,170)	\$ (7,078,578)	\$ (6,004,899)	\$ (4,820,251)	\$ (2,428,592)	\$ (912,759)	\$ (326,968)	\$ (263,673)	\$ (266,724)	\$ (278,833)	\$ (556,397)
15														
16														
17														
18	Gas Costs and Credits													
19	Demand Costs (net of Capacity Assignment)													
20	Pipeline										\$ 172,482	\$ 172,482	\$ 172,482	\$ 172,482
21	Storage										\$ 731,485	\$ 731,485	\$ 731,485	\$ 731,485
22	On-system Peaking										\$ 41,033	\$ 41,033	\$ 41,033	\$ 41,033
23	Off-System Peaking										\$ -	\$ -	\$ -	\$ -
24	Total Demand Costs										\$ 945,000	\$ 945,000	\$ 945,000	\$ 945,000
25														
26	Asset Management and Capacity Release													
27	NUI AMA Revenue										\$ (585,133)	\$ (585,133)	\$ (585,133)	\$ (585,133)
28	NUI Capacity Release										\$ -	\$ -	\$ -	\$ -
29	NUI AMA Rev & Cap. Release Subtotal										\$ (585,133)	\$ (585,133)	\$ (585,133)	\$ (585,133)
30	NH AMA Revenue										\$ (260,507)	\$ (260,507)	\$ (260,507)	\$ (260,507)
31	NH Capacity Release										\$ -	\$ -	\$ -	\$ -
32	NH Total Asset Management and Capacity Release										\$ (260,507)	\$ (260,507)	\$ (260,507)	\$ (260,507)
33														
34	Re-entry Rate / Conversion Rate Revenue										\$ -	\$ -	\$ -	\$ -
35														
36	Net Demand Costs		\$ 1,540,534	\$ 1,528,964	\$ 1,595,630	\$ 1,404,587	\$ 1,477,437	\$ 410,720	\$ 684,493	\$ 684,493	\$ 684,493	\$ 684,493	\$ 684,493	\$ 684,493
37														
38	NUI Commodity Costs													
39	NUI Total Pipeline Volumes										288,763	290,326	302,280	572,717
40	Pipeline Costs Modeled in Sendout™										\$ 713,823	\$ 712,207	\$ 706,238	\$ 1,357,630
41	NYMEX Price Used for Forecast										\$ 2,6670	\$ 2,6710	\$ 2,6530	\$ 2,6690
42	NYMEX Price Used for Update										\$ 2,2910	\$ 2,3120	\$ 2,2930	\$ 2,3190
43	Increase/(Decrease) NYMEX Price										\$ (0.38)	\$ (0.36)	\$ (0.36)	\$ (0.35)
44	Increase/(Decrease) in Pipeline Costs										\$ (108,575)	\$ (104,227)	\$ (108,821)	\$ (200,451)
45	Updated Pipeline Costs										\$ 605,248	\$ 607,980	\$ 597,417	\$ 1,157,179
46	New Hampshire Allocated Percentage										34.96%	35.18%	34.48%	36.96%
47	NH Updated Pipeline Costs										\$ 211,603	\$ 213,863	\$ 205,992	\$ 427,726
48														
49	Peaking Volumes										2,170	2,170	2,100	2,170
50	Peaking Costs Modeled in Sendout										\$ 14,949	\$ 14,918	\$ 14,342	\$ 14,778
51	Increase/(Decrease) NYMEX Price										\$ -	\$ -	\$ -	\$ -
52	Increase in Peaking Costs										\$ -	\$ -	\$ -	\$ -
53	Updated Peaking Costs										\$ 14,949	\$ 14,918	\$ 14,342	\$ 14,778
54	New Hampshire Allocated Percentage										34.96%	35.18%	34.48%	36.96%
55	NH Updated Peaking Costs										\$ 5,226	\$ 5,248	\$ 4,945	\$ 5,462
56														
57	NH Commodity Costs													
58	Pipeline										\$ 211,603	\$ 213,863	\$ 205,992	\$ 427,726
59	Storage										\$ -	\$ -	\$ -	\$ -
60	Peaking										\$ 5,226	\$ 5,248	\$ 4,945	\$ 5,462
61	Total Commodity Costs		\$ 2,159,358	\$ 4,084,471	\$ 3,865,370	\$ 2,964,860	\$ 2,082,707	\$ 1,116,989	\$ 411,499	\$ 206,315	\$ 216,829	\$ 219,110	\$ 210,937	\$ 433,188
62	Inventory Finance Charge								\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
63														
64	Total Anticipated Direct Cost of Gas		\$ 3,699,891	\$ 5,613,436	\$ 5,461,000	\$ 4,369,447	\$ 3,560,144	\$ 1,527,709	\$ 1,095,993	\$ 890,808	\$ 901,323	\$ 903,604	\$ 895,431	\$ 1,117,681

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

Sales Revenues				
	Winter	Summer	Prior Period	Total
1 Volumes				
2 Residential Heat & Non Heat				
3 Sales HLF Classes				
4 Sales LLF Classes				
5 Total				
6 Rates				
7 Residential Heat & Non Heat CGA				
8 Sales HLF Classes CGA				
9 Sales LLF Classes CGA				
10 Revenues				
11 Residential Heat & Non Heat				
12 Sales HLF Classes				
13 Sales LLF Classes				
14 Total Sales	\$ (30,422,373)	\$ (2,605,354)		\$ (33,027,727)
15				
Gas Costs and Credits				
	Winter	Summer	Prior Period	Total
18 Demand Costs (net of Capacity Assignment)				
19 Pipeline				
20 Storage				
21 On-system Peaking				
22 Off-System Peaking				
23 Total Demand Costs				
24				
25 Asset Management and Capacity Release				
26 NUI AMA Revenue				
27 NUI Capacity Release				
28 NUI AMA Rev & Cap. Release Subtotal				
29 NH AMA Revenue				
30 NH Capacity Release				
31 NH Total Asset Management and Capacity Release				
32				
33				
34 Re-entry Rate / Conversion Rate Revenue				
35				
36 Net Demand Costs	\$ 7,957,873	\$ 4,106,960		\$ 12,064,833
37				
38 NUI Commodity Costs				
39 NUI Total Pipeline Volumes				
40 Pipeline Costs Modeled in Sendout™				
41 NYMEX Price Used for Forecast				
42 NYMEX Price Used for Update				
43 Increase/(Decrease) NYMEX Price				
44 Increase/(Decrease) in Pipeline Costs				
45 Updated Pipeline Costs				
46 New Hampshire Allocated Percentage				
47 NH Updated Pipeline Costs				
48				
49 Peaking Volumes				
50 Peaking Costs Modeled in Sendout				
51 Increase/(Decrease) NYMEX Price				
52 Increase in Peaking Costs				
53 Updated Peaking Costs				
54 New Hampshire Allocated Percentage				
55 NH Updated Peaking Costs				
56				
57 NH Commodity Costs				
58 Pipeline				
59 Storage				
60 Peaking				
61 Total Commodity Costs	\$ 16,273,754	\$ 1,697,879		\$ 17,971,633
62 Inventory Finance Charge				
63				
64 Total Anticipated Direct Cost of Gas	\$ 24,231,627	\$ 5,804,839		\$ 30,036,466

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation**

	Winter							Summer					
	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	(Forecast) Jul-19	(Forecast) Aug-19	(Forecast) Sep-19	(Forecast) Oct-19
65													
66													
67													
68	Working Capital												
69	Total Anticipated Direct Cost of Gas	\$ 3,857,751	\$ 5,771,295	\$ 5,618,860	\$ 4,527,307	\$ 3,718,004	\$ 1,685,569	\$ 1,114,227	\$ 909,042	\$ 901,323	\$ 903,604	\$ 895,431	\$ 1,117,681
70	Working Capital Percentage	0.1373%	0.14%	0.14%	0.14%	0.14%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%	0.15%
71	Working Capital Allowance	\$ 5,297	\$ 7,924	\$ 8,097	\$ 6,524	\$ 5,358	\$ 2,545	\$ 1,682	\$ 1,373	\$ 1,361	\$ 1,364	\$ 1,352	\$ 1,688
72	Beginning Period Working Capital Balance	\$ 9,529	\$ 14,876	\$ 22,879	\$ 31,093	\$ 37,768	\$ 43,302	\$ 46,052	\$ 47,949	\$ 49,545	\$ 51,136	\$ 52,738	\$ 54,335
73	End of Period Working Capital Allowance	\$ 14,826	\$ 22,800	\$ 30,976	\$ 37,617	\$ 43,125	\$ 45,847	\$ 47,734	\$ 49,322	\$ 50,906	\$ 52,500	\$ 54,090	\$ 56,022
74	Interest	\$ 51	\$ 78	\$ 118	\$ 150	\$ 177	\$ 204	\$ 215	\$ 223	\$ 230	\$ 237	\$ 245	\$ 253
75	End of period with interest	\$ 9,529	\$ 14,876	\$ 22,879	\$ 31,093	\$ 37,768	\$ 43,302	\$ 46,052	\$ 47,949	\$ 49,545	\$ 51,136	\$ 52,738	\$ 54,335
76	Bad Debt												
77	Projected Bad Debt	\$ -	\$ 7,281	\$ 40,557	\$ 14,378	\$ 4,248	\$ (7,102)	\$ 5,749	\$ 17,834	\$ 10,967	\$ 28,297	\$ 37,729	\$ 28,297
78	Beginning Period Bad Debt Balance	\$ (5,841)	\$ 1,430	\$ 42,078	\$ 56,672	\$ 61,177	\$ 54,327	\$ 60,338	\$ 78,489	\$ 89,841	\$ 118,615	\$ 156,974	\$ 186,055
79	End of Period Bad Debt Balance	\$ 1,439	\$ 41,987	\$ 56,456	\$ 60,919	\$ 54,075	\$ 60,762	\$ 78,172	\$ 89,456	\$ 118,138	\$ 156,344	\$ 185,271	\$ 214,352
80	Interest	\$ (9)	\$ 90	\$ 216	\$ 257	\$ 252	\$ 267	\$ 317	\$ 385	\$ 477	\$ 630	\$ 784	\$ 918
81	End of Period Bad Debt Balance with Interest	\$ (5,841)	\$ 1,430	\$ 42,078	\$ 56,672	\$ 61,177	\$ 54,327	\$ 60,338	\$ 78,489	\$ 89,841	\$ 118,615	\$ 156,974	\$ 186,055
82	Local Production and Storage Capacity	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
83		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
84	Miscellaneous Overhead	\$ 78,509	\$ 78,509	\$ 78,509	\$ 78,509	\$ 78,509	\$ 78,509	\$ 18,234	\$ 18,234	\$ 18,234	\$ 18,234	\$ 18,234	\$ 18,234
85													
86	Gas Cost Other than Bad Debt and Working Capital Over/Under Collection												
87	Beginning Balance Over/Under Collection	\$ 1,310,543	\$ 1,016,249	\$ 858,271	\$ (600,885)	\$ (2,084,339)	\$ (3,198,116)	\$ (3,957,500)	\$ (3,773,710)	\$ (3,207,598)	\$ (2,564,913)	\$ (1,920,055)	\$ (1,292,568)
88	Net Costs - Revenues	\$ (299,132)	\$ (161,875)	\$ (1,459,718)	\$ (1,477,592)	\$ (1,102,247)	\$ (743,023)	\$ 201,468	\$ 582,074	\$ 655,883	\$ 655,113	\$ 634,832	\$ 579,518
89	Ending Balance before Interest	\$ 1,011,412	\$ 854,374	\$ (601,447)	\$ (2,078,478)	\$ (3,186,586)	\$ (3,941,140)	\$ (3,756,033)	\$ (3,191,636)	\$ (2,551,715)	\$ (1,909,800)	\$ (1,285,223)	\$ (713,050)
90	Average Balance	\$ 1,160,977	\$ 935,311	\$ 128,412	\$ (1,339,682)	\$ (2,635,462)	\$ (3,569,628)	\$ (3,856,767)	\$ (3,482,673)	\$ (2,879,656)	\$ (2,237,357)	\$ (1,602,639)	\$ (1,002,809)
91	Interest Rate	5.00%	5.00%	5.25%	5.25%	5.25%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
92	Interest Expense	\$ 4,837	\$ 3,897	\$ 562	\$ (5,861)	\$ (11,530)	\$ (16,361)	\$ (17,677)	\$ (15,962)	\$ (13,198)	\$ (10,255)	\$ (7,345)	\$ (4,596)
93	Ending Balance Incl Interest Expense	\$ 1,310,543	\$ 1,016,249	\$ 858,271	\$ (600,885)	\$ (2,084,339)	\$ (3,198,116)	\$ (3,957,500)	\$ (3,773,710)	\$ (3,207,598)	\$ (2,564,913)	\$ (1,920,055)	\$ (1,292,568)
94	Total Over/Under Collection Ending Balance	\$ 1,314,231	\$ 1,032,556	\$ 923,228	\$ (513,120)	\$ (1,985,395)	\$ (3,100,487)	\$ (3,851,111)	\$ (3,647,271)	\$ (3,068,212)	\$ (2,395,163)	\$ (1,710,343)	\$ (1,052,178)
95													
96	Total Indirect Cost of Gas	\$ 1,314,231	\$ 175,316	\$ 210,407	\$ 181,230	\$ 163,178	\$ 145,015	\$ 150,260	\$ 20,605	\$ 15,219	\$ 35,400	\$ 47,941	\$ 44,793
97													
98	Total Cost of Gas	\$ 1,314,231	\$ 3,875,207	\$ 5,823,842	\$ 5,642,230	\$ 4,532,625	\$ 3,705,159	\$ 1,677,969	\$ 1,116,598	\$ 906,027	\$ 936,723	\$ 951,544	\$ 936,997
99													
100	Total Interest	\$ -	\$ 4,879	\$ 4,066	\$ 895	\$ (5,454)	\$ (11,101)	\$ (15,894)	\$ (17,145)	\$ (15,354)	\$ (12,492)	\$ (9,387)	\$ (6,316)
101													
102													
103													
104													
105													
106													
107													
108													

April 30, 2019 Target Balance	\$ (2,793,587)
April 30, 2018 Actual Balance	\$ (3,851,111)
Variance	\$ (1,057,523)

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Analysis, Balances and Interest Calculation

	Winter	Summer	Prior Period	Total
65				
66				
67				
68				
69				
70				
71	\$ 35,744	\$ 8,820	\$ 9,529	\$ 54,093
72				
73				
74	\$ 779	\$ 1,403		\$ 2,182
75				
76				
77	\$ 65,111	\$ 151,421	\$ (5,841)	\$ 210,691
78				
79				
80	\$ 1,068	\$ 3,511		\$ 4,579
81				
82	\$ 476,106			\$ 476,106
83				\$ -
84	\$ 471,052	\$ 109,403		\$ 580,455
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96	\$ 1,025,405	\$ 205,525	\$ 1,314,231	\$ 2,545,160
97				
98	\$ 25,257,032	\$ 6,010,363	\$ 1,314,231	\$ 32,581,626
99				
100	\$ (22,609)	\$ (64,120)		\$ (86,728)
101				
102				
103				
104				
105				
106				
107				
108				