New Hampshire Monthly Cost of Gas Report

Winter Period

November 2017 Summary

The objective of the Winter Period Monthly Cost of Gas ("COG") analysis is to determine if COG rates need to be adjusted in order to minimize differences between the April 30, 2018 target balance and the corresponding estimated end of Winter Period balance. An adjustment is made to COG rates if the difference between the estimated and target end of Winter Period balances exceeds 2% of total projected gas costs.

As shown on Table 1, Line 22, the projected end of Winter Period balance is an under-collection of ($2,203,787). This is lower than the target end of Winter Period balance of ($2,533,516), Line 25. The difference between the estimated and target balances $329,729, Line 27, represents a variance of 1.48%, Line 32, of total gas costs. Therefore, no rate change is proposed at this time.

NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
Calculation of the Projected Over or Under Collection of the
Winter 2017-2018 Period Cost of Gas
DG 17-144
November 2017 Estimated

1	Under/(Over) collection as of 11/01/17		$ 220,065	Table 2, PG. 3, Line 99
2				
3	Forecasted firm therm sales 11/01/17 - 4/30/18			
4	Residential Heat & Non Heat	16,234,589		Table 2, PG. 2, Line 2
5	HLF Classes	2,448,624		Table 2, PG. 2, Line 3
6	LLF Classes	16,182,767		Table 2, PG. 2, Line 4
7				
8	Current recovery rate per therm			
9	Residential heat & non heat	$0.7103		Table 2, PG. 1, Line 7
10	HLF classes	$0.6224		Table 2, PG. 1, Line 8
11	LLF classes	$0.7236		Table 2, PG. 1, Line 9
12				
13	Total	$ (24,765,302)		(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14				
15	Forecasted recovered costs at current rates 11/01/2017 - 04/30/2018		$ (24,765,302)	LN 13
16	Actual recovered costs		$ -	
17	Estimated total recovered costs 11/01/17 - 04/30/18		$ (24,765,302)	LN 15 + LN 16
18				
19	Revised projected direct gas costs 11/01/17 - 04/30/18 *[1]*		$ 21,310,058	Table 2, PG. 4, Line 71
20	Revised projected indirect gas costs 11/01/17 - 04/30/18 *[2]*		$ 1,031,392	Table 2, PG. 4, Line 101
21				
22	Projected April 30, 2018 End of Winter Period Balance		$ (2,203,787)	LN 1 + Ln 17 + LN 19 + LN 20
23				
24				
25	April 30, 2018 Target Balance		($2,533,516)	Table 2, PG. 3, Line 107
26				
27	Variance from Projected Target Balance		$ 329,729	LN 25 - LN 22
28				
29	Total Projected Gas Costs		$ 22,341,450	LN 19 + LN 20
30				
31				
32	Under/(over) collection as percent of total gas costs		1.48%	LN 27 / LN 29

NOTES

[1] Reflects futures prices as of November 15, 2017
[2] Includes: Working Capital Allowance, Bad Debt Allowance, Production and Storage Capacity, Miscellaneous Overhead, and Interest

Northern Utilities

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

			Winter						Summer					
	Sales Revenues		(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)
1	Volumes	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
2	Residential Heat & Non Heat		1,971,438	3,003,415	3,715,334	3,261,260	2,797,567	1,485,575	702,997	482,427	419,957	422,211	443,199	927,645
3	Sales HLF Classes		297,347	452,998	560,375	491,888	421,950	224,066	363,643	249,548	217,233	218,399	229,256	479,847
4	Sales LLF Classes		1,965,145	2,993,828	3,703,475	3,250,850	2,788,637	1,480,833	561,252	385,156	335,281	337,080	353,837	740,604
5	Total		4,233,929	6,450,240	7,979,184	7,003,998	6,008,154	3,190,474	1,627,891	1,117,130	972,471	977,690	1,026,291	2,148,096
6	Rates													
7	Residential Heat & Non Heat CGA		$0.7103	$0.7103	$0.7103	$0.7103	$0.7103	$0.7103	$0.3975	$0.3975	$0.3975	$0.3975	$0.3975	$0.3975
8	Sales HLF Classes CGA		$0.6224	$0.6224	$0.6224	$0.6224	$0.6224	$0.6224	$0.3543	$0.3543	$0.3543	$0.3543	$0.3543	$0.3543
9	Sales LLF Classes CGA		$0.7236	$0.7236	$0.7236	$0.7236	$0.7236	$0.7236	$0.4254	$0.4254	$0.4254	$0.4254	$0.4254	$0.4254
10	Revenues													
11	Residential Heat & Non Heat		$ (1,400,312)	$ (2,133,326)	$ (2,639,002)	$ (2,316,473)	$ (1,987,112)	$ (1,055,204)	$ (279,441)	$ (191,765)	$ (166,933)	$ (167,829)	$ (176,172)	$ (368,739)
12	Sales HLF Classes		$ (185,069)	$ (281,946)	$ (348,777)	$ (306,151)	$ (262,622)	$ (139,458)	$ (128,839)	$ (88,415)	$ (76,966)	$ (77,379)	$ (81,225)	$ (170,010)
13	Sales LLF Classes		$ (1,421,979)	$ (2,166,334)	$ (2,679,834)	$ (2,352,315)	$ (2,017,858)	$ (1,071,531)	$ (238,756)	$ (163,845)	$ (142,629)	$ (143,394)	$ (150,522)	$ (315,053)
14	Total Sales		$ (3,007,360)	$ (4,581,605)	$ (5,667,613)	$ (4,974,939)	$ (4,267,591)	$ (2,266,193)	$ (647,036)	$ (444,025)	$ (386,527)	$ (388,601)	$ (407,919)	$ (853,802)
15														

			Winter						Summer					
16														
17	**Gas Costs and Credits**		(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)
18		Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
19	Net Demand Costs (Net of Injection Fees & Cap. Assign.)													
20	Pipeline		$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,965	$ 278,020	$ 278,020
21	Storage		$ 1,118,336	$ 1,118,336	$ 1,118,336	$ 1,118,336	$ 1,118,336	$ 443,264	$ 443,264	$ 410,369	$ 410,369	$ 410,369	$ 410,369	$ 410,369
22	Peaking		$ 237,920	$ 241,213	$ 241,213	$ 241,213	$ 237,920	$ 90,295	$ 42,108	$ 42,108	$ 42,108	$ 42,108	$ 42,108	$ 42,108
23	Total Demand Costs		$ 1,635,221	$ 1,638,514	$ 1,638,514	$ 1,638,514	$ 1,635,221	$ 812,524	$ 764,337	$ 731,442	$ 731,442	$ 731,442	$ 730,497	$ 730,497
24														
25	Asset Management and Capacity Release													
26	NUI AMA Revenue		$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)
27	NUI Capacity Release		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
28	NUI AMA Rev & Cap. Release Subtotal		$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)	$ (353,757)
29	NH AMA Revenue		$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)
30	NH Capacity Release		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
31	NH Total Asset Management and Capacity Release		$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)	$ (157,880)
32														
33	PNGTS Refund		$ (231,328.41)	$ (231,328.41)	$ (231,328.41)	$ (231,328.41)	$ (231,328.41)	$ (231,328.41)	$ -	$ -	$ -	$ -	$ -	$ -
34														
35	Net Demand Costs		$ 1,246,013	$ 1,249,305	$ 1,249,305	$ 1,249,305	$ 1,246,013	$ 423,315	$ 606,457	$ 573,562	$ 573,562	$ 573,562	$ 572,617	$ 572,617
36														
37	NUI Commodity Costs													
38	NUI Total Pipeline Volumes		648,293	916,964	898,057	943,605	1,070,055	883,856	474,732	321,807	282,899	284,126	306,404	614,624
39	Pipeline Costs Modeled in Sendout™		$ 1,971,953	$ 4,381,350	$ 4,904,060	$ 4,856,523	$ 3,669,966	$ 2,538,352	$ 1,273,432	$ 862,289	$ 761,921	$ 763,018	$ 800,369	$ 1,648,370
40	NYMEX Price Used for Forecast		$ 3.0500	$ 3.2000	$ 3.3000	$ 3.3000	$ 3.2600	$ 2.9300	$ 2.8900	$ 2.9200	$ 2.9400	$ 2.9500	$ 2.9200	$ 2.9400
41	NYMEX Price Used for Update		$ 2.7520	$ 3.0800	$ 3.1790	$ 3.1800	$ 3.1400	$ 2.9400	$ 2.8900	$ 2.9200	$ 2.9400	$ 2.9500	$ 2.9200	$ 2.9400
42	Increase/(Decrease) NYMEX Price		$ (0.30)	$ (0.12)	$ (0.12)	$ (0.12)	$ (0.12)	$ 0.01						
43	Increase/(Decrease) in Pipeline Costs		$ (193,191)	$ (110,036)	$ (108,665)	$ (113,233)	$ (128,407)	$ 8,839	$ -	$ -	$ -	$ -	$ -	$ -
44	Updated Pipeline Costs		$ 1,778,761	$ 4,271,314	$ 4,795,396	$ 4,743,291	$ 3,541,559	$ 2,547,190	$ 1,273,432	$ 862,289	$ 761,921	$ 763,018	$ 800,369	$ 1,648,370
45	Interruptible Volumes - NH		0	0	0	0	0	0	0	0	0	0	0	0
46	Average Supply Cost ($/MMBtu)		$ 2.74	$ 4.66	$ 5.34	$ 5.03	$ 3.31	$ 2.88	$ 2.68	$ 2.68	$ 2.69	$ 2.69	$ 2.61	$ 2.68
47	Interruptible Cost - NH		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
48	Total Updated Pipeline Costs		$ 1,778,761	$ 4,271,314	$ 4,795,396	$ 4,743,291	$ 3,541,559	$ 2,547,190	$ 1,273,432	$ 862,289	$ 761,921	$ 763,018	$ 800,369	$ 1,648,370
49	New Hampshire Allocated Percentage		39.96%	40.09%	40.28%	39.88%	39.23%	36.46%	34.56%	34.92%	34.54%	34.57%	33.68%	35.26%
50	NH Updated Pipeline Costs		$ 710,788	$ 1,712,262	$ 1,931,526	$ 1,891,536	$ 1,389,361	$ 928,795	$ 440,118	$ 301,101	$ 263,150	$ 263,809	$ 269,572	$ 581,265
51	Hedging (Gain)/Loss Estimate													
52	NYMEX Options Contracts													
53	Number of Contracts		12	20	29	30	25							
54	Option Contract Price		$ 0.23	$ 0.24	$ 0.25	$ 0.25	$ 0.24							
55	Hedging Expenses		$ 27,600	$ 47,400	$ 71,775	$ 74,100	$ 60,000							
56	NYMEX Option Strike Price		$ 4.80	$ 5.25	$ 6.00	$ 6.25	$ 6.30							
57	NYMEX Price Used for Forecast		$ 2.75	$ 3.08	$ 3.18	$ 3.18	$ 3.14							
58	Strike Price Hit		No	No	No	No	No							
59	Option Hedging Gain (Credit)		$ -											
60	Tota Northern Hedginf Net Cost		$ 27,600	$ 47,400	$ 71,775	$ 74,100	$ 60,000							
61	New Hampshire Allocated Percentage		39.96%	40.09%	40.28%	39.88%	39.23%							
62	NH Futures Hedging Net Cost		$ 11,029	$ 19,001	$ 28,910	$ 29,550	$ 23,538		$ -	$ -	$ -	$ -	$ -	$ -
63	NH Commodity Costs													
64	Pipeline Excl Hedging		$ 710,788	$ 1,712,262	$ 1,931,526	$ 1,891,536	$ 1,389,361	$ 928,795	$ 440,118	$ 301,101	$ 263,150	$ 263,809	$ 269,572	$ 581,265
65	Hedging (Gain)/Loss Estimate		$ 11,029	$ 19,001	$ 28,910	$ 29,550	$ 23,538	$ -	$ -	$ -	$ -	$ -	$ -	$ -
66	Storage		$ 514,698	$ 819,627	$ 932,166	$ 878,800	$ 496,601	$ -	$ -	$ -	$ -	$ -	$ -	$ -
67	Peaking		$ 5,476	$ 151,941	$ 1,560,278	$ 441,289	$ 160,847	$ 5,328	$ 5,039	$ 4,917	$ 5,026	$ 5,031	$ 4,719	$ 5,105
68	Total Commodity Costs		$ 1,241,990	$ 2,702,832	$ 4,452,880	$ 3,241,175	$ 2,070,347	$ 934,123	$ 445,157	$ 306,019	$ 268,176	$ 268,840	$ 274,292	$ 586,370

Northern Utilities
NEW HAMPSHIRE (Over) / UndercollectionAnalysis, Balances & Interest Calculation

		Winter	Summer	Prior Period	Total
	Sales Revenues				
1	Volumes				
2	Residential Heat & Non Heat	16,234,589	3,398,435		19,633,024
3	Sales HLF Classes	2,448,624	1,757,926		4,206,549
4	Sales LLF Classes	16,182,767	2,713,210		18,895,976
5	Total	34,865,979	7,869,571		42,735,550
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	(11,531,429)	(1,350,878)		(12,882,307)
12	Sales HLF Classes	(1,524,023)	(622,833)		(2,146,856)
13	Sales LLF Classes	(11,709,850)	(1,154,199)		(12,864,049)
14	Total Sales	(24,765,302)	(3,127,910)		(27,893,212)
15					
16					
17	**Gas Costs and Credits**				
18		Winter	Summer		Total
19	Net Demand Costs (Net of Injection Fees & Cap. Ass				
20	Pipeline	1,673,790	1,671,899		3,345,689
21	Storage	6,034,946	2,495,109		8,530,055
22	Peaking	1,289,773	252,650		1,542,423
23	Total Demand Costs	8,998,508	4,419,659		13,418,166
24					
25	Asset Management and Capacity Release				
26	NUI AMA Revenue	(2,122,539)	(2,122,539)		$ (4,245,078)
27	NUI Capacity Release	-	-		$ -
28	NUI AMA Rev & Cap. Release Subtotal	(2,122,539)	(2,122,539)		$ (4,245,078)
29	NH AMA Revenue	(947,280)	(947,280)		$ (1,894,561)
30	NH Capacity Release	-	-		$ -
31	NH Total Asset Management and Capacity Release	$ (947,280)	$ (947,280)		$ (1,894,561)
32					
33	PNGTS Refund	$ (1,387,970)	$ -		$ (1,387,970)
34					
35	Net Demand Costs	$ 6,663,257	$ 3,472,378		$ 10,135,635
36					
37	NUI Commodity Costs				
38	NUI Total Pipeline Volumes				7,645,423
39	Pipeline Costs Modeled in Sendout™				$ 28,431,602
40	NYMEX Price Used for Forecast				
41	NYMEX Price Used for Update				
42	Increase/(Decrease) NYMEX Price				
43	Increase/(Decrease) in Pipeline Costs				
44	Updated Pipeline Costs				
45	Interruptible Volumes - NH				
46	Average Supply Cost ($/MMBtu)				
47	Interruptible Cost - NH				
48	Total Updated Pipeline Costs				
49	New Hampshire Allocated Percentage				
50	NH Updated Pipeline Costs				$ 10,683,285
51	Hedging (Gain)/Loss Estimate				
52	NYMEX Options Contracts				
53	Number of Contracts				
54	Option Contract Price				
55	Hedging Expenses				
56	NYMEX Option Strike Price				
57	NYMEX Price Used for Forecast				
58	Strike Price Hit				
59	Option Hedging Gain (Credit)				
60	Tota Northern Hedginf Net Cost				$ 280,875
61	New Hampshire Allocated Percentage				
62	NH Futures Hedging Net Cost	$ 112,028	$ -		$ 112,028
63	NH Commodity Costs				
64	Pipeline Excl Hedging	$ 8,564,269	$ 2,119,016		$ 10,683,285
65	Hedging (Gain)/Loss Estimate	$ 112,028	$ -		$ 112,028
66	Storage	$ 3,641,891	$ -		$ 3,641,891
67	Peaking	$ 2,325,159	$ 29,837		$ 2,354,996
68	Total Commodity Costs	$ 14,643,347	$ 2,148,854		$ 16,792,200

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

69	Inventory Finance Charge		$ 389	$ 648	$ 829	$ 725	$ 596	$ 267	$ -	$ -	$ -	$ -	$ -	$ -
70														
71	**Total Anticipated Direct Cost of Gas**		$ 2,488,392	$ 3,952,785	$ 5,703,014	$ 4,491,205	$ 3,316,956	$ 1,357,705	$ 1,051,615	$ 879,581	$ 841,738	$ 842,402	$ 846,909	$ 1,158,987
72			Winter						Summer					
73			(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)
74		Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
75	Working Capital													
76	Total Anticipated Direct Cost of Gas		$ 2,488,392	$ 3,952,785	$ 5,703,014	$ 4,491,205	$ 3,316,956	$ 1,357,705	$ 1,051,615	$ 879,581	$ 841,738	$ 842,402	$ 846,909	$ 1,158,987
77	Working Capital Percentage		0.1077%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%	0.11%
78	Working Capital Allowance		$ 2,680	$ 4,257	$ 6,142	$ 4,837	$ 3,573	$ 1,462	$ 1,133	$ 947	$ 907	$ 907	$ 912	$ 1,248
79	Beginning Period Working Capital Balance		$ 3,292	$ 5,989	$ 10,275	$ 16,464	$ 21,369	$ 25,023	$ 26,577	$ 27,805	$ 28,853	$ 29,863	$ 30,878	$ 31,901
80	End of Period Working Capital Allowance		$ 5,972	$ 10,246	$ 16,417	$ 21,302	$ 24,941	$ 26,485	$ 27,709	$ 28,753	$ 29,760	$ 30,771	$ 31,790	$ 33,149
81	Interest		$ 16	$ 29	$ 47	$ 67	$ 82	$ 91	$ 96	$ 100	$ 104	$ 107	$ 111	$ 115
82	End of period with Interest	$ 3,292	$ 5,989	$ 10,275	$ 16,464	$ 21,369	$ 25,023	$ 26,577	$ 27,805	$ 28,853	$ 29,863	$ 30,878	$ 31,901	$ 33,265
83	Bad Debt													
84	Projected Bad Debt	$ -	$ 30,733.90	$ 30,733.90	$ 30,733.90	$ 30,733.90	$ 30,733.90	$ 30,733.90	$ 1,857.72	$ 1,857.72	$ 1,857.72	$ 1,857.72	$ 1,857.72	$ 1,857.72
85	Beginning Period Bad Debt Balance		$ 13,172	$ 44,007	$ 74,951	$ 106,005	$ 137,168	$ 168,443	$ 199,827	$ 202,396	$ 204,974	$ 207,561	$ 210,157	$ 212,762
86	End of Period Bad Debt Balance		*$ 43,906*	*$ 74,741*	*$ 105,685*	*$ 136,739*	*$ 167,902*	*$ 199,176*	*$ 201,685*	*$ 204,254*	*$ 206,832*	*$ 209,419*	*$ 212,015*	*$ 214,620*
87	Interest		$ 101	$ 210	$ 320	$ 430	$ 540	$ 651	$ 711	$ 720	$ 729	$ 738	$ 748	$ 757
88	End of Period Bad Debt Balance with Interest	$ 13,172	$ 44,007	$ 74,951	$ 106,005	$ 137,168	$ 168,443	$ 199,827	$ 202,396	$ 204,974	$ 207,561	$ 210,157	$ 212,762	$ 215,377
89	Local Production and Storage Capacity		$ 70,110	$ 70,110	$ 70,110	$ 70,110	$ 70,110	$ 70,110	$ -	$ -	$ -	$ -	$ -	$ -
90	Miscellaneous Overhead		$ 69,710	$ 69,710	$ 69,710	$ 69,710	$ 69,710	$ 69,710	$ 15,734	$ 15,734	$ 15,734	$ 15,734	$ 15,734	$ 15,734
91	Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
92	Beginning Balance Over/Under Collection		$ 203,601	$ (175,496)	$ (665,983)	$ (492,811)	$ (839,080)	$ (1,654,303)	$ (2,430,191)	$ (2,017,741)	$ (1,572,797)	$ (1,106,588)	$ (640,141)	$ (186,879)
93	Net Costs - Revenues		$ (379,147)	$ (489,000)	$ 175,221	$ (343,914)	$ (810,816)	$ (768,668)	$ 420,313	$ 451,290	$ 470,945	$ 469,535	$ 454,724	$ 320,919
94	Ending Balance before Interest		$ (175,546)	$ (664,496)	$ (490,762)	$ (836,725)	$ (1,649,895)	$ (2,422,971)	$ (2,009,878)	$ (1,566,450)	$ (1,101,852)	$ (637,053)	$ (185,417)	$ 134,040
95	Average Balance		$ 14,028	$ (419,996)	$ (578,373)	$ (664,768)	$ (1,244,487)	$ (2,038,637)	$ (2,220,034)	$ (1,792,095)	$ (1,337,325)	$ (871,821)	$ (412,779)	$ (26,419)
96	Interest Rate		4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%	4.25%
97	Interest Expense		$ 50	$ (1,487)	$ (2,048)	$ (2,354)	$ (4,408)	$ (7,220)	$ (7,863)	$ (6,347)	$ (4,736)	$ (3,088)	$ (1,462)	$ (94)
98	Ending Balance Incl Interest Expense	$ 203,601	$ (175,496)	$ (665,983)	$ (492,811)	$ (839,080)	$ (1,654,303)	$ (2,430,191)	$ (2,017,741)	$ (1,572,797)	$ (1,106,588)	$ (640,141)	$ (186,879)	$ 133,947
99	**Total Over/Under Collection Ending Balance**	$ 220,065	$ (125,501)	$ (580,758)	$ (370,342)	$ (680,543)	$ (1,460,837)	$ (2,203,787)	$ (1,787,539)	$ (1,338,970)	$ (869,164)	$ (399,106)	$ 57,785	$ 382,588
100														
101	**Total Indirect Cost of Gas**	$ 220,065	$ 173,401	$ 173,563	$ 175,015	$ 173,534	$ 170,341	$ 165,538	$ 11,669	$ 13,013	$ 14,595	$ 16,257	$ 17,901	$ 19,619
102														
103	**Total Cost of Gas**	$ 220,065	$ 2,661,794	$ 4,126,348	$ 5,878,029	$ 4,664,739	$ 3,487,297	$ 1,523,244	$ 1,063,284	$ 892,594	$ 856,333	$ 858,660	$ 864,810	$ 1,178,605
104														
105	**Total Interest**	$ -	$ 167	$ (1,248)	$ (1,681)	$ (1,858)	$ (3,785)	$ (6,478)	$ (7,055)	$ (5,527)	$ (3,903)	$ (2,242)	$ (603)	$ 778
106														
107						**Target April 30, 2018 Balance**		($2,533,516)						

Northern Utilities
NEW HAMPSHIRE (Over) / UndercollectionAnalysis, Balances & Interest Calculation

		Winter	Summer	Prior Period	Total
69	Inventory Finance Charge	$ 3,454	$ 3,065		$ 3,454
70					
71	**Total Anticipated Direct Cost of Gas**	$ 21,310,058	$ 5,621,232		$ 26,931,289
72					
73				Prior	
74		Winter	Summer	Period	Total
75	Working Capital				
76	Total Anticipated Direct Cost of Gas				$ 26,931,289
77	Working Capital Percentage				
78	Working Capital Allowance	$ 22,952	$ 6,054	$ 3,292	$ 32,298
79	Beginning Period Working Capital Balance				
80	End of Period Working Capital Allowance				
81	Interest				$ 966
82	End of period with Interest				
83	Bad Debt				
84	Projected Bad Debt	$ 184,403	$ 11,146	$ 13,172	$ 208,721
85	Beginning Period Bad Debt Balance				
86	End of Period Bad Debt Balance				
87	Interest				$ 6,655
88	End of Period Bad Debt Balance with Interest				
89	Local Production and Storage Capacity	$ 420,658	$ -		$ 420,658
90	Miscellaneous Overhead	$ 418,262	$ 94,406		$ 512,668
91	Gas Cost Other than Bad Debt and Working Capital				
92	Beginning Balance Over/Under Collection				$ (11,578,407)
93	Net Costs - Revenues				$ (28,597)
94	Ending Balance before Interest				$ (11,607,005)
95	Average Balance				$ (11,592,706)
96	Interest Rate				
97	Interest Expense				$ (41,058)
98	Ending Balance Incl Interest Expense				
99	**Total Over/Under Collection Ending Balance**				
100					
101	**Total Indirect Cost of Gas**	$ 1,031,392	$ 93,054	$ 220,065	$ 1,344,512
102					
103	**Total Cost of Gas**	$ 22,341,450	$ 5,714,286	$ 220,065	$ 28,275,801
104					
105	**Total Interest**	$ (14,883)	$ (18,552)		$ (33,436)
106					
107					

Northern Utilities, Inc.
Price Risk Management
Profit and Loss Statement
October 2017

Account # 53325

Current

ACB	$0.00
TE	$19,604.00
LV	$19,604.00

ACTIVITY - Purchase Cost and Profit and Loss						Expense	Profit and Loss
Date	Description	State	Contracts	Option Premuim	Strike Price	Option Purchase Cost	
	Net P&L						$0.00

TRANSACTION COSTS					Subtotal	Total
	Transaction Cost-Enter Options	Both	0	$7.36	$0.00	
	Transaction Cost-Exit Options	Both	0		$0.00	
	Total New Transaction Costs					$0.00

OPEN CALL OPTION POSITIONS-Expense and Open Trade Equity					Total			Total
		State	QTY	Actual Option Premium	Option Purchase Cost	Strike Price	10/31/17 Futures Price	Current Open Trade Equity
05/26/16	Dec17 Options	Both	20	0.2370	$47,400.00	$4.000	$2.896	$0.00
06/28/16	Jan18 Options	Both	29	0.2475	$71,775.00	$4.300	$3.026	$0.00
07/27/16	Feb18 Options	Both	30	0.2470	$74,100.00	$4.500	$3.030	$0.00
08/29/16	Mar18 Options	Both	25	0.2400	$60,000.00	$4.650	$3.000	$0.00
	Total Expense, Open Trade Equity				**$253,275.00**			**$0.00**

OPEN CALL OPTION POSITIONS- Long Option Value					Total	
		State	QTY	Current Option Premium	Current Option Value	Strike Price
05/26/16	Dec17 Options	Both	20	0.0010	$200.00	$4.000
06/28/16	Jan18 Options	Both	29	0.0081	$2,349.00	$4.300
07/27/16	Feb18 Options	Both	30	0.0236	$7,080.00	$4.500
08/29/16	Mar18 Options	Both	25	0.0399	$9,975.00	$4.650
10/31/17	***Total Long Option Value***				**$19,604.00**	

MARGIN CASH BALANCE		Subtotal	Total
10/01/17	**Beginning Balance-carried forward from last month**		**($24,708.38)**
	Interest Credit	$0.00	
	Net Deposit to Margin Account	$24,708.38	
	Option Premiums of new activity	$0.00	
	Monthly Transaction Costs	$0.00	
	Total Monthly Cash Adjustment		$24,708.38
10/31/17	***Ending Balance (ACB)***		**$0.00**

NORTHERN UTILITIES, INC.
DETERMINATION OF INVENTORY FINANCING FROM MONEY POOL
October 2017

	Total Inventory	Average bal beg + end / 2	Internally Financed	Money Pool Interest Rate	Interest to Defer	NH	ME
January 2017	$8,349,188.69	$9,797,354.69	$9,797,354.69	1.70%	$13,879.59	$5,887.72	$7,991.87
February	$6,881,382.39	$7,615,285.54	$7,615,285.54	1.71%	$10,851.78	$4,603.33	$6,248.46
March	$6,466,038.05	$6,673,710.22	$6,673,710.22	1.71%	$9,510.04	$4,034.16	$5,475.88
April	$6,932,113.54	$6,699,075.80	$6,699,075.80	1.71%	$9,546.18	$4,049.49	$5,496.69
May	$7,347,477.88	$7,139,795.71	$7,139,795.71	1.72%	$10,233.71	$4,341.14	$5,892.57
June	$7,775,720.99	$7,561,599.44	$7,561,599.44	1.73%	$10,901.31	$4,624.33	$6,276.97
July	$8,390,100.35	$8,082,910.67	$8,082,910.67	1.76%	$11,852.12	$5,027.67	$6,824.45
August	$9,003,112.57	$8,696,606.46	$8,696,606.46	1.79%	$12,953.71	$5,494.96	$7,458.74
September	$9,643,843.60	$9,323,478.09	$9,323,478.09	1.81%	$14,040.27	$5,955.88	$8,084.39
October	$10,336,838.18	$9,990,340.89	$9,990,340.89	1.81%	$15,044.50	$6,381.88	$8,662.62
November	$10,177,266.05	$10,257,052.11	$10,257,052.11	1.84%	$15,692.96	$6,656.95	$9,036.01
December	$8,176,192.96	$9,176,729.50	$9,176,729.50	1.98%	$15,151.98	$6,427.47	$8,724.51
January 2017	$10,586,052.58	$9,381,122.77	$9,381,122.77	2.05%	$16,017.94	$6,794.81	$9,223.13
February	$3,991,804.55	$7,288,928.57	$7,288,928.57	2.05%	$12,445.59	$5,279.42	$7,166.17
March	$1,988,672.70	$2,990,238.62	$2,990,238.62	2.19%	$5,445.13	$2,309.82	$3,135.31
April	$3,252,033.76	$2,620,353.23	$2,620,353.23	2.27%	$4,956.51	$2,102.55	$2,853.96
May	$4,492,308.93	$3,872,171.35	$3,872,171.35	2.29%	$7,389.39	$3,134.58	$4,254.81
June	$5,803,856.23	$5,148,082.58	$5,148,082.58	2.44%	$10,467.77	$4,440.43	$6,027.34
July	$7,018,391.76	$6,411,123.99	$6,411,123.99	2.51%	$13,409.93	$5,688.49	$7,721.44
August	$8,211,399.49	$7,614,895.62	$7,614,895.62	2.52%	$15,991.28	$6,783.50	$9,207.78
September	$9,381,190.83	$8,796,295.16	$8,796,295.16	2.52%	$18,472.22	$7,835.92	$10,636.30
October	$10,586,052.58	$9,983,621.71	$9,983,621.71	2.52%	$20,965.61	$8,893.61	$12,072.00

Inventory ACCT #		MMBTU	AMOUNT
	LNG		
515152	Inventory - Liquified Natural Gas		
	NATURAL GAS	10,445	$70,058.54
515114&115	Natural Gas Underground - SS-1 and FSS-1		
515116	Natural Gas Underground - SSNE	207,532	$458,794.04
515113	Natural Gas Underground - MCN	3,400,000	$10,057,200.00
516525	Washington 10 prepaid	-	
Total Inventory			$10,586,052.58