

March 2022 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, 2022 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.

For the March 2022 analysis, estimated costs and revenues for November 2021 through February 2022 have been replaced with actuals. Commodity costs have been updated to reflect NYMEX prices as of March 22, 2022. In addition, in November the prior period balance was updated to reflect the actual balance as of October 31, 2021¹. Due to the change in the October 31 balance, the April 30th target balance has been revised.

As shown on Table 1, Line 23, the estimated end of Winter Period balance is an over-collection of (\$5,157,819) and the target end of Winter Period balance is an over-collection of (\$5,202,006) (Line 25). The variance between the estimated and target balances is a projected under-collection of \$44,187 (Line 27). This under-collection represents a variance of 0.16% of total gas costs (Line 31) and is below the 2% threshold for requiring a rate change. Therefore, no rate change is proposed at this time.

Support for the estimated end of Winter Period balance is provided in Table 2. Support for the revised target end of Winter Period balance is provided in Table 3.

¹ The COG rates effective November 1, 2021, reflect a prior period balance that utilizes estimated costs and revenues for August through September 2021.

NORTHERN UTILITIES, INC.
NEW HAMPSHIRE DIVISION
Calculation of the Projected Over or Under Collection of the
Winter 2021-2022 Period Cost of Gas
DG 21-131
March 2022 Estimated

1	Under/(Over) collection as of 11/01/21	\$ 209,985	Table 2, PG. 3, Line 98, October
2			
3	Forecasted firm therm sales 3/01/22 - 4/30/22		
4	Residential heat & non heat	4,361,085	Table 2, PG. 2, Line 2
5	High load factor classes	725,287	Table 2, PG. 2, Line 3
6	Low load factor classes	4,164,429	Table 2, PG. 2, Line 4
7			
8	Current recovery rate per therm		
9	Residential heat & non heat	\$1.0547	Table 2, PG. 1, Line 7
10	High load factor classes	\$0.9608	Table 2, PG. 1, Line 8
11	Low load factor classes	\$1.0706	Table 2, PG. 1, Line 9
12			
13	Total	\$ (9,754,930)	(LN 4 * Ln 9) + (LN 5 * LN 10) + (LN 6 * LN 11)
14			
15	Forecasted recovered costs at current rates 3/01/22 - 04/30/22	\$ (9,754,930)	LN 13
16	Actual recovered costs 11/01/21 - 02/28/22	\$ (23,399,905)	Table 2, PG. 1, Line 14,
17	Estimated total recovered costs 11/01/21 - 04/30/22	\$ (33,154,835)	LN 15 + LN 16
18			
19	Revised projected direct gas costs [1]	\$ 26,821,669	Table 2, PG. 2, Line 68, Winter
20	Revised projected indirect gas costs [2]	\$ 965,362	Table 2, PG. 4, Line 100, Winter
21	Revised total projected gas costs 11/01/2021 - 04/30/2022	\$ 27,787,031	LN 19 + LN 20
22			
23	Projected April 30, 2022 Winter Period Balance	\$ (5,157,819)	LN 1 + LN 17 + LN 21
24			
25	April 30, 2022 Target Balance [3]	\$ (5,202,006)	Table 3, PG. 3, Line 98
26			
27	Variance from Target Balance	\$ 44,187	LN 23 - LN 25
28			
29	Total Projected Gas Costs	\$ 27,787,031	LN 21
30			
31	Under/(over) collection as percent of total gas costs	0.16%	LN 27 / LN 29

NOTES

- [1] Reflects futures prices as of March 22, 2022
- [2] Includes: Working Capital Allowance, Bad Debt Allowance, Production and Storage Capacity, Miscellaneous Overhead and Interest
- [3] Updated in November 2021 to reflect actual account balance as of October 31, 2021

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

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	\$ (33,154,835)	\$ (4,610,285)		\$ (37,765,120)
15					
16					
17	Gas Costs and Credits				Total
18					
19	Demand Costs (net of Capacity Assignment)				
20	Pipeline				
21	Storage				
22	On-system Peaking				
23	Off-System Peaking				
24	Total Demand Costs				
25					
26	Asset Management and Capacity Release				
27	NUI AMA Revenue				
28	NUI Capacity Release				
29	NUI AMA Rev & Cap. Release Subtotal				
30	NH AMA Revenue				
31	NH Capacity Release				
32	NH Total Asset Management and Capacity Release				
33					
34	Outage Replacement				
35					
36	Re-entry Rate & Conversion Rate Revenue				\$ -
37	Off-system sales				-
38	Net Demand Costs	\$ 7,267,909	\$ 6,537,339		\$ 13,805,248
39					
40	NUI Commodity Costs				
41	NUI Total Pipeline Volumes				
42	Pipeline Costs Modeled in Sendout™				
43	NYMEX Price Used for Forecast				
44	NYMEX Price Used for Update				
45	Increase/(Decrease) NYMEX Price				
46	Percentage of purchases tied to NYMEX				
47	Increase/(Decrease) in Pipeline Costs				
48	Total Updated Pipeline Costs				
49	New Hampshire Allocated Percentage				
50	NH Updated Pipeline Costs				
51					
52	NH Peaking Volumes				
53	NH Peaking Costs Modeled in Sendout				
54	Percentage of purchases tied to NYMEX				
55	Change in NYMEX Price				
56	Increase/(Decrease) in Peaking Costs				
57	Total Update Peaking Costs				
58	New Hampshire Allocated Percentage				
59	NH Updated Peaking Costs				
60					
61	NH Commodity Costs				
62	Pipeline				
63	Storage				
64	Peaking				
65	Total Commodity Costs	\$ 19,553,422	\$ 3,131,680		\$ 22,685,102
66	Inventory Finance Charge	\$ 338	\$ -		\$ 338
67					
68	Total Anticipated Direct Cost of Gas	\$ 26,821,669	\$ 9,669,019		\$ 36,490,688

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

	Oct-21	Winter						Summer					
		(Actual) Nov-21	(Actual) Dec-21	(Actual) Jan-22	(Actual) Feb-22	(Forecast) Mar-22	(Forecast) Apr-22	(Forecast) May-22	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Working Capital													
Total Anticipated Direct Cost of Gas		\$ 3,133,678	\$ 4,948,234	\$ 7,097,240	\$ 5,518,217	\$ 4,332,008	\$ 2,732,004	\$ 1,790,505	\$ 1,549,970	\$ 1,487,766	\$ 1,491,169	\$ 1,516,242	\$ 1,950,215
Working Capital Percentage		0.0892%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%
Working Capital Allowance		\$ 2,795	\$ 4,414	\$ 6,331	\$ 4,922	\$ 3,864	\$ 2,437	\$ 1,597	\$ 1,383	\$ 1,327	\$ 1,330	\$ 1,352	\$ 1,740
Beginning Period Working Capital Balance		\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 21,054	\$ 23,551	\$ 25,214	\$ 26,667	\$ 28,068	\$ 29,476	\$ 30,910
End of Period Working Capital Allowance		\$ 1,398	\$ 5,812	\$ 12,152	\$ 17,099	\$ 21,002	\$ 23,491	\$ 25,148	\$ 26,597	\$ 27,994	\$ 29,398	\$ 30,829	\$ 32,650
Interest		\$ 0	\$ 10	\$ 24	\$ 40	\$ 52	\$ 60	\$ 66	\$ 70	\$ 74	\$ 78	\$ 82	\$ 86
End of period with Interest	\$ (1,398)	\$ 1,398	\$ 5,821	\$ 12,176	\$ 17,138	\$ 21,054	\$ 23,551	\$ 25,214	\$ 26,667	\$ 28,068	\$ 29,476	\$ 30,910	\$ 32,736
Bad Debt													
Projected Bad Debt	\$ -	\$ 8,836	\$ 14,798	\$ (10,232)	\$ 4,559	\$ 7,592	\$ 7,592	\$ 15,185	\$ 15,185	\$ 22,777	\$ 15,185	\$ 22,777	\$ 15,185
Beginning Period Bad Debt Balance		\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (19,101)	\$ (11,550)	\$ 3,624	\$ 18,839	\$ 41,698	\$ 57,017	\$ 79,980
End of Period Bad Debt Balance		\$ (35,424)	\$ (20,734)	\$ (31,042)	\$ (26,554)	\$ (19,040)	\$ (11,509)	\$ 3,635	\$ 18,809	\$ 41,617	\$ 56,883	\$ 79,794	\$ 95,165
Interest		\$ (108)	\$ (76)	\$ (70)	\$ (78)	\$ (62)	\$ (41)	\$ (11)	\$ 30	\$ 82	\$ 133	\$ 185	\$ 237
End of Period Bad Debt Balance with Interest	\$ (44,260)	\$ (35,532)	\$ (20,810)	\$ (31,113)	\$ (26,632)	\$ (19,101)	\$ (11,550)	\$ 3,624	\$ 18,839	\$ 41,698	\$ 57,017	\$ 79,980	\$ 95,402
Local Production and Storage Capacity		\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Overhead		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475
Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
Beginning Balance Over/Under Collection	\$ 255,642	\$ 255,642	\$ (436,716)	\$ (1,004,488)	\$ (1,234,293)	\$ (2,457,107)	\$ (4,245,039)	\$ (5,169,820)	\$ (4,380,096)	\$ (3,491,334)	\$ (2,567,260)	\$ (1,645,626)	\$ (757,782)
Net Costs - Revenues		\$ (692,113)	\$ (565,823)	\$ (226,777)	\$ (1,217,823)	\$ (1,778,868)	\$ (912,049)	\$ 802,639	\$ 899,407	\$ 932,267	\$ 927,331	\$ 891,094	\$ 722,844
Ending Balance before Interest		\$ (436,471)	\$ (1,002,539)	\$ (1,231,265)	\$ (2,452,115)	\$ (4,235,976)	\$ (5,157,088)	\$ (4,367,182)	\$ (3,480,689)	\$ (2,559,066)	\$ (1,639,928)	\$ (754,531)	\$ (34,938)
Average Balance		\$ (90,414)	\$ (719,627)	\$ (1,117,876)	\$ (1,843,204)	\$ (3,346,542)	\$ (4,701,064)	\$ (4,768,501)	\$ (3,930,393)	\$ (3,025,200)	\$ (2,103,594)	\$ (1,200,079)	\$ (396,360)
Interest Rate		3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%
Interest Expense		\$ (245)	\$ (1,949)	\$ (3,028)	\$ (4,992)	\$ (9,064)	\$ (12,732)	\$ (12,915)	\$ (10,645)	\$ (8,193)	\$ (5,697)	\$ (3,250)	\$ (1,073)
Ending Balance Incl Interest Expense	\$ 255,642	\$ (436,716)	\$ (1,004,488)	\$ (1,234,293)	\$ (2,457,107)	\$ (4,245,039)	\$ (5,169,820)	\$ (4,380,096)	\$ (3,491,334)	\$ (2,567,260)	\$ (1,645,626)	\$ (757,782)	\$ (36,011)
Total Over/Under Collection Ending Balance	\$ 209,985	\$ (470,850)	\$ (1,019,477)	\$ (1,253,229)	\$ (2,466,601)	\$ (4,243,087)	\$ (5,157,819)	\$ (4,351,258)	\$ (3,445,827)	\$ (2,497,493)	\$ (1,559,133)	\$ (646,892)	\$ 92,127
Total Indirect Cost of Gas	\$ 209,985	\$ 167,897	\$ 173,815	\$ 149,644	\$ 161,069	\$ 159,002	\$ 153,935	\$ 23,397	\$ 25,498	\$ 35,542	\$ 30,504	\$ 40,621	\$ 35,649
Total Cost of Gas	\$ 209,985	\$ 3,144,957	\$ 4,965,430	\$ 7,090,265	\$ 5,522,668	\$ 4,334,391	\$ 2,729,320	\$ 1,794,428	\$ 1,555,994	\$ 1,503,833	\$ 1,502,198	\$ 1,537,388	\$ 1,966,390
Total Interest	\$ -	\$ (353)	\$ (2,015)	\$ (3,073)	\$ (5,030)	\$ (9,074)	\$ (12,713)	\$ (12,859)	\$ (10,544)	\$ (8,037)	\$ (5,486)	\$ (2,983)	\$ (750)

April 30th Target Balance	\$ (5,202,006)
April 30th Projected Balance	\$ (5,157,819)
Variance	\$ 44,187

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Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

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	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 37,547,249
Working Capital Percentage				
Working Capital Allowance	\$ 24,763	\$ 8,729	\$ (1,398)	\$ 32,095
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 186	\$ 456		\$ 641
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 33,145	\$ 106,295	\$ (44,260)	\$ 95,180
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ (436)	\$ 657		\$ 222
End of Period Bad Debt Balance with Interest				
Local Production and Storage Capacity	\$ 476,106	\$ -		\$ 476,106
				\$ -
Miscellaneous Overhead	\$ 463,606	\$ 116,849		\$ 580,455
Gas Cost Other than Bad Debt and Working Capital Over/L				
Beginning Balance Over/Under Collection				\$ (27,133,918)
Net Costs - Revenues				\$ (217,871)
Ending Balance before Interest				\$ (27,351,789)
Average Balance				\$ (27,242,854)
Interest Rate				
Interest Expense				\$ (73,783)
Ending Balance Incl Interest Expense			\$ 255,642	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 965,362	\$ 191,212	\$ 209,985	\$ 1,366,558
Total Cost of Gas	\$ 27,787,031	\$ 9,860,231	\$ 209,985	\$ 37,857,247
Total Interest	\$ (32,259)	\$ (40,661)		\$ (72,920)

Updated End of Period Balance ("Target Balance")
 (\$5,202,006)
 Line 98 - April

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

	Oct-21	Winter						Summer					
		(Forecast) Nov-21	(Forecast) Dec-21	(Forecast) Jan-22	(Forecast) Feb-22	(Forecast) Mar-22	(Forecast) Apr-22	(Forecast) May-22	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Sales Revenues													
Volumes													
Residential Heat & Non Heat		2,235,193	3,205,961	3,752,145	3,220,112	2,745,230	1,615,855	791,744	517,185	437,049	443,237	491,840	992,084
Sales HLF Classes		368,357	503,160	586,466	509,647	444,531	280,756	418,861	285,038	250,296	254,950	275,778	512,036
Sales LLF Classes		2,109,633	3,011,324	3,541,686	3,044,843	2,604,500	1,559,929	697,006	455,024	386,854	392,235	440,500	865,314
Total		4,713,183	6,720,446	7,880,297	6,774,602	5,794,261	3,456,540	1,907,611	1,257,246	1,074,199	1,090,422	1,208,118	2,369,434
Rates													
Residential Heat & Non Heat CGA		\$0.9392	\$0.9392	\$0.9392	\$0.9392	\$0.9392	\$0.9392	\$0.5176	\$0.5176	\$0.5176	\$0.5176	\$0.5176	\$0.5176
Sales HLF Classes CGA		\$0.8453	\$0.8453	\$0.8453	\$0.8453	\$0.8453	\$0.8453	\$0.4740	\$0.4740	\$0.4740	\$0.4740	\$0.4740	\$0.4740
Sales LLF Classes CGA		\$0.9551	\$0.9551	\$0.9551	\$0.9551	\$0.9551	\$0.9551	\$0.5445	\$0.5445	\$0.5445	\$0.5445	\$0.5445	\$0.5445
Revenues													
Residential Heat & Non Heat		\$ (2,099,293)	\$ (3,011,039)	\$ (3,524,015)	\$ (3,024,329)	\$ (2,578,320)	\$ (1,517,611)	\$ (409,807)	\$ (267,695)	\$ (226,216)	\$ (229,419)	\$ (254,576)	\$ (513,503)
Sales HLF Classes		\$ (311,373)	\$ (425,321)	\$ (495,740)	\$ (430,805)	\$ (375,762)	\$ (237,323)	\$ (198,540)	\$ (135,108)	\$ (118,640)	\$ (120,846)	\$ (130,719)	\$ (242,705)
Sales LLF Classes		\$ (2,014,910)	\$ (2,876,116)	\$ (3,382,664)	\$ (2,908,129)	\$ (2,487,558)	\$ (1,489,888)	\$ (379,520)	\$ (247,760)	\$ (210,642)	\$ (213,572)	\$ (239,852)	\$ (471,164)
Total Sales		\$ (4,425,576)	\$ (6,312,476)	\$ (7,402,419)	\$ (6,363,263)	\$ (5,441,640)	\$ (3,244,823)	\$ (987,867)	\$ (650,563)	\$ (555,499)	\$ (563,838)	\$ (625,147)	\$ (1,227,371)
Gas Costs and Credits													
Demand Costs (net of Capacity Assignment)													
Pipeline		\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451	\$ 455,451
Storage		\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421	\$ 644,421
On-system Peaking		\$ 208,007	\$ 208,007	\$ 208,007	\$ 208,007	\$ 208,007	\$ 208,007	\$ 97,714	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975	\$ 16,975
Off-System Peaking		\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646	\$ 312,646
Total Demand Costs		\$ 1,620,524	\$ 1,620,524	\$ 1,620,524	\$ 1,620,524	\$ 1,620,524	\$ 1,510,232	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493	\$ 1,429,493
Asset Management and Capacity Release													
NUI AMA Revenue		\$ (810,930)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)
NUI Capacity Release		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NUI AMA Rev & Cap. Release Subtotal		\$ (810,930)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)	\$ (826,470)
NH AMA Revenue		\$ (333,866)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)
NH Capacity Release		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
NH Total Asset Management and Capacity Release		\$ (333,866)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)	\$ (340,264)
Outage Replacement Cost		\$ 7,067	\$ 7,067	\$ 7,067	\$ 7,067	\$ 7,067	\$ 7,067	\$ 328	\$ 328	\$ 328	\$ 328	\$ 328	\$ 328
Re-entry Rate & Conversion Rate Revenue		\$ (833.33)	\$ (833.33)	\$ (833.33)	\$ (833.33)	\$ (833.33)	\$ (833.33)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Net Demand Costs		\$ 1,292,892	\$ 1,286,494	\$ 1,286,494	\$ 1,286,494	\$ 1,286,494	\$ 1,176,202	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556	\$ 1,089,556
NUI Commodity Costs													
NUI Total Pipeline Volumes		982,127	978,933	926,892	846,586	1,023,092	1,103,596	623,919	427,539	395,807	401,078	426,093	718,859
Pipeline Costs Modeled in Sendout™		\$ 5,248,530	\$ 5,735,184	\$ 6,062,675	\$ 5,455,995	\$ 5,436,340	\$ 4,220,796	\$ 2,197,031	\$ 1,475,856	\$ 1,373,084	\$ 1,382,979	\$ 1,410,783	\$ 2,512,274
NYMEX Price Used for Forecast		\$ 5.3050	\$ 5.3980	\$ 5.4650	\$ 5.3700	\$ 5.0130	\$ 3.9390	\$ 3.8100	\$ 3.8390	\$ 3.8710	\$ 3.8790	\$ 3.8630	\$ 3.8900
NYMEX Price Used for Update		\$ 5.3050	\$ 5.3980	\$ 5.4650	\$ 5.3700	\$ 5.0130	\$ 3.9390	\$ 3.8100	\$ 3.8390	\$ 3.8710	\$ 3.8790	\$ 3.8630	\$ 3.8900
Increase/(Decrease) NYMEX Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Increase/(Decrease) in Pipeline Costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Percentage of purchases tied to NYMEX		61%	40%	36%	36%	61%	100%	100%	100%	100%	100%	100%	100%
Updated Pipeline Costs		\$ 5,248,530	\$ 5,735,184	\$ 6,062,675	\$ 5,455,995	\$ 5,436,340	\$ 4,220,796	\$ 2,197,031	\$ 1,475,856	\$ 1,373,084	\$ 1,382,979	\$ 1,410,783	\$ 2,512,274
New Hampshire Allocated Percentage		36.21%	36.93%	36.99%	36.38%	34.75%	31.67%	30.87%	29.65%	27.35%	27.40%	28.59%	33.29%
NH Updated Pipeline Costs		\$ 1,900,723	\$ 2,118,268	\$ 2,242,311	\$ 1,984,934	\$ 1,889,389	\$ 1,336,543	\$ 678,216	\$ 437,649	\$ 375,599	\$ 378,996	\$ 403,363	\$ 836,389
NH Peaking Volumes		1,794	132,447	416,567	168,774	66,406	1,794	1,860	1,860	1,860	1,860	1,800	1,860
NH Peaking Costs Modeled in Sendout		\$ 9,526	\$ 2,091,388	\$ 4,553,220	\$ 2,865,280	\$ 1,286,222	\$ 10,221	\$ 10,555	\$ 11,094	\$ 11,464	\$ 11,464	\$ 13,455	\$ 14,402
Percentage of purchases tied to NYMEX		100.00%	11.49%	57.41%	7.47%	3.18%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Change in NYMEX Price		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Increase/(Decrease) in Peaking Costs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Update Peaking Costs		\$ 9,526	\$ 2,091,388	\$ 4,553,220	\$ 2,865,280	\$ 1,286,222	\$ 10,220.95	\$ 10,555	\$ 11,094	\$ 11,464	\$ 11,464	\$ 13,455	\$ 14,402
New Hampshire Allocated Percentage		36.21%	36.93%	36.99%	36.38%	34.75%	31.67%	30.87%	29.65%	27.35%	27.40%	28.59%	33.29%
NH Updated Peaking Costs		\$ 3,450	\$ 772,446	\$ 1,684,032	\$ 1,042,411	\$ 447,024	\$ 3,237	\$ 3,258	\$ 3,290	\$ 3,136	\$ 3,142	\$ 3,847	\$ 4,795
NH Commodity Costs													
Pipeline		\$ 1,900,723	\$ 2,118,268	\$ 2,242,311	\$ 1,984,934	\$ 1,889,389	\$ 1,336,543	\$ 678,216	\$ 437,649	\$ 375,599	\$ 378,996	\$ 403,363	\$ 836,389
Storage		\$ 378,185	\$ 836,645	\$ 933,716	\$ 983,140	\$ 649,063	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Peaking		\$ 3,450	\$ 772,446	\$ 1,684,032	\$ 1,042,411	\$ 447,024	\$ 3,237	\$ 3,258	\$ 3,290	\$ 3,136	\$ 3,142	\$ 3,847	\$ 4,795
Total Commodity Costs		\$ 2,282,359	\$ 3,727,358	\$ 4,860,059	\$ 4,010,484	\$ 2,985,476	\$ 1,339,779	\$ 681,474	\$ 440,939	\$ 378,735	\$ 382,138	\$ 407,210	\$ 841,184
Inventory Finance Charge		\$ 174	\$ 268	\$ 323	\$ 275	\$ 224	\$ 114	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Anticipated Direct Cost of Gas		\$ 3,575,425	\$ 5,014,120	\$ 6,146,876	\$ 5,297,254	\$ 4,272,194	\$ 2,516,095	\$ 1,771,030	\$ 1,530,495	\$ 1,468,291	\$ 1,471,694	\$ 1,496,767	\$ 1,930,741

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection**

Sales Revenues				
Volumes	Winter	Summer	Prior Period	Total
Residential Heat & Non Heat				20,447,634
Sales HLF Classes				4,689,876
Sales LLF Classes				19,108,849
Total	35,339,329	8,907,030		44,246,359
Rates				
Residential Heat & Non Heat CGA				
Sales HLF Classes CGA				
Sales LLF Classes CGA				
Revenues				
Residential Heat & Non Heat				\$ (17,655,823)
Sales HLF Classes				\$ (3,222,882)
Sales LLF Classes				\$ (16,921,776)
Total Sales	\$ (33,190,196)	\$ (4,610,285)		\$ (37,800,481)
Gas Costs and Credits				
	Winter	Summer	Prior Period	Total
Demand Costs (net of Capacity Assignment)				
Pipeline	\$ 2,732,703	\$ 2,732,703		\$ 5,465,407
Storage	\$ 3,866,525	\$ 3,866,525		\$ 7,733,050
On-system Peaking	\$ 1,137,749	\$ 101,852		\$ 1,239,601
Off-System Peaking	\$ 1,875,877	\$ 1,875,877		\$ 3,751,755
Total Demand Costs	\$ 9,612,854	\$ 8,576,958		\$ 18,189,812
Asset Management and Capacity Release				
NUI AMA Revenue				\$ (9,902,100)
NUI Capacity Release				\$ -
NUI AMA Rev. & Cap. Release Subtotal				\$ -
NH AMA Revenue				\$ (4,076,771)
NH Capacity Release				\$ -
NH Total Asset Management and Capacity Release	\$ (2,035,186)	\$ (2,041,584)		\$ (4,076,771)
Outage Replacement Cost	\$ 42,402	\$ 1,965		
Re-entry Rate & Conversion Rate Revenue	\$ (5,000)	\$ -		\$ (5,000)
Net Demand Costs	\$ 7,615,070	\$ 6,537,339		\$ 14,152,408
NUI Commodity Costs				
NUI Total Pipeline Volumes				8,854,520
Pipeline Costs Modeled in Sendout™				\$ 42,511,526
NYMEX Price Used for Forecast				
NYMEX Price Used for Update				
Increase/(Decrease) NYMEX Price				
Increase/(Decrease) in Pipeline Costs				
Percentage of purchases tied to NYMEX				
Updated Pipeline Costs				
New Hampshire Allocated Percentage				
NH Updated Pipeline Costs	\$ 11,472,168	\$ 3,110,213		\$ 14,582,381
NH Peaking Volumes				
NH Peaking Costs Modeled in Sendout				
Percentage of purchases tied to NYMEX				
Change in NYMEX Price				
Increase/(Decrease) in Peaking Costs				
Total Update Peaking Costs				
New Hampshire Allocated Percentage				
NH Updated Peaking Costs	\$ 3,952,599	\$ 21,467		
NH Commodity Costs				
Pipeline	\$ 11,472,168	\$ 3,110,213		\$ 14,582,381
Storage	\$ 3,780,749	\$ -		\$ 3,780,749
Peaking	\$ 3,952,599	\$ 21,467		\$ 3,974,066
Total Commodity Costs	\$ 19,205,516	\$ 3,131,680		\$ 22,337,197
Inventory Finance Charge				\$ 1,378
Total Anticipated Direct Cost of Gas	\$ 26,821,965	\$ 9,669,019		\$ 36,490,984

Updated End of Period Balance ("Target Balance")
 (\$5,202,006)
 Line 98 - April

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

	Oct-21	Winter						Summer					
		(Forecast) Nov-21	(Forecast) Dec-21	(Forecast) Jan-22	(Forecast) Feb-22	(Forecast) Mar-22	(Forecast) Apr-22	(Forecast) May-22	(Forecast) Jun-22	(Forecast) Jul-22	(Forecast) Aug-22	(Forecast) Sep-22	(Forecast) Oct-22
Working Capital													
Total Anticipated Direct Cost of Gas		\$ 3,575,425	\$ 5,014,120	\$ 6,146,876	\$ 5,297,254	\$ 4,272,194	\$ 2,516,095	\$ 1,771,030	\$ 1,530,495	\$ 1,468,291	\$ 1,471,694	\$ 1,496,767	\$ 1,930,741
Working Capital Percentage		0.0892%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%	0.09%
Working Capital Allowance		\$ 3,190	\$ 4,474	\$ 5,484	\$ 4,726	\$ 3,812	\$ 2,245	\$ 1,580	\$ 1,365	\$ 1,310	\$ 1,313	\$ 1,335	\$ 1,723
Beginning Period Working Capital Balance		\$ (1,398)	\$ 1,793	\$ 6,277	\$ 11,786	\$ 16,551	\$ 20,412	\$ 22,715	\$ 24,359	\$ 25,792	\$ 27,174	\$ 28,562	\$ 29,977
End of Period Working Capital Allowance		\$ 1,792	\$ 6,267	\$ 11,762	\$ 16,512	\$ 20,362	\$ 22,657	\$ 24,295	\$ 25,725	\$ 27,102	\$ 28,487	\$ 29,898	\$ 31,700
Interest		\$ 1	\$ 11	\$ 24	\$ 38	\$ 50	\$ 58	\$ 64	\$ 68	\$ 72	\$ 75	\$ 79	\$ 84
End of period with Interest	\$ (1,398)	\$ 1,793	\$ 6,277	\$ 11,786	\$ 16,551	\$ 20,412	\$ 22,715	\$ 24,359	\$ 25,792	\$ 27,174	\$ 28,562	\$ 29,977	\$ 31,783
Bad Debt													
Projected Bad Debt	\$ -	\$ 15,185	\$ 7,592	\$ 3,796	\$ 3,796	\$ 7,592	\$ 7,592	\$ 15,185	\$ 15,185	\$ 22,777	\$ 15,185	\$ 22,777	\$ 15,185
Beginning Period Bad Debt Balance	\$ (44,260)	\$ (29,174)	\$ (21,651)	\$ (17,908)	\$ (14,155)	\$ (6,591)	\$ 994	\$ 16,203	\$ 31,452	\$ 54,345	\$ 69,698	\$ 92,698	\$ 107,880
End of Period Bad Debt Balance	\$ (29,075)	\$ (21,582)	\$ (17,854)	\$ (14,112)	\$ (6,563)	\$ 1,002	\$ 16,179	\$ 31,388	\$ 54,229	\$ 69,530	\$ 92,476	\$ 107,880	\$ 122,844
Interest		\$ (99)	\$ (69)	\$ (53)	\$ (43)	\$ (28)	\$ (8)	\$ 23	\$ 64	\$ 116	\$ 168	\$ 220	\$ 272
End of Period Bad Debt Balance with Interest	\$ (44,260)	\$ (29,174)	\$ (21,651)	\$ (17,908)	\$ (14,155)	\$ (6,591)	\$ 994	\$ 16,203	\$ 31,452	\$ 54,345	\$ 69,698	\$ 92,698	\$ 107,880
Local Production and Storage Capacity		\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ 79,351	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Miscellaneous Overhead		\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 77,268	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475	\$ 19,475
Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
Beginning Balance Over/Under Collection		\$ 244,694	\$ (449,115)	\$ (1,593,614)	\$ (2,698,342)	\$ (3,616,273)	\$ (4,640,265)	\$ (5,225,716)	\$ (4,436,143)	\$ (3,547,532)	\$ (2,623,610)	\$ (1,702,129)	\$ (814,438)
Net Costs - Revenues		\$ (693,532)	\$ (1,141,737)	\$ (1,098,924)	\$ (909,391)	\$ (1,012,827)	\$ (572,108)	\$ 802,639	\$ 899,407	\$ 932,267	\$ 927,331	\$ 891,094	\$ 722,844
Ending Balance before Interest		\$ (448,838)	\$ (1,590,852)	\$ (2,692,538)	\$ (3,607,733)	\$ (4,629,099)	\$ (5,212,374)	\$ (4,423,077)	\$ (3,536,736)	\$ (2,615,265)	\$ (1,696,279)	\$ (811,035)	\$ (91,594)
Average Balance		\$ (102,072)	\$ (1,019,983)	\$ (2,143,076)	\$ (3,153,038)	\$ (4,122,686)	\$ (4,926,319)	\$ (4,824,396)	\$ (3,986,439)	\$ (3,081,399)	\$ (2,159,945)	\$ (1,256,582)	\$ (453,016)
Interest Rate		3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%
Interest Expense		\$ (276)	\$ (2,762)	\$ (5,804)	\$ (8,539)	\$ (11,166)	\$ (13,342)	\$ (13,066)	\$ (10,797)	\$ (8,345)	\$ (5,850)	\$ (3,403)	\$ (1,227)
Ending Balance Incl Interest Expense	\$ 244,694	\$ (449,115)	\$ (1,593,614)	\$ (2,698,342)	\$ (3,616,273)	\$ (4,640,265)	\$ (5,225,716)	\$ (4,436,143)	\$ (3,547,532)	\$ (2,623,610)	\$ (1,702,129)	\$ (814,438)	\$ (92,821)
Total Over/Under Collection Ending Balance	\$ 199,037	\$ (476,496)	\$ (1,608,988)	\$ (2,704,464)	\$ (3,613,877)	\$ (4,626,444)	\$ (5,202,006)	\$ (4,395,581)	\$ (3,490,288)	\$ (2,542,091)	\$ (1,603,868)	\$ (691,766)	\$ 47,114
Total Indirect Cost of Gas	\$ 199,037	\$ 174,618	\$ 165,864	\$ 160,066	\$ 156,597	\$ 156,879	\$ 153,165	\$ 23,261	\$ 25,361	\$ 35,404	\$ 30,366	\$ 40,483	\$ 35,511
Total Cost of Gas	\$ 199,037	\$ 3,750,043	\$ 5,179,985	\$ 6,306,942	\$ 5,453,850	\$ 4,429,073	\$ 2,669,260	\$ 1,794,291	\$ 1,555,856	\$ 1,503,696	\$ 1,502,060	\$ 1,537,250	\$ 1,966,251
Total Interest	\$ -	\$ (375)	\$ (2,820)	\$ (5,833)	\$ (8,545)	\$ (11,144)	\$ (13,291)	\$ (12,979)	\$ (10,664)	\$ (8,158)	\$ (5,607)	\$ (3,104)	\$ (872)

**Northern Utilities
 NEW HAMPSHIRE (Over) / Undercollection**

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	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				\$ 36,490,984
Working Capital Percentage				
Working Capital Allowance	\$ 23,930	\$ 8,627	\$ (1,398)	\$ 31,159
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	\$ 183	\$ 441		\$ 624
End of period with Interest				
Bad Debt				
Projected Bad Debt	\$ 45,555	\$ 106,295	\$ (44,260)	\$ 107,590
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	\$ (301)	\$ 863		\$ 562
End of Period Bad Debt Balance with Interest				
Local Production and Storage Capacity				\$ 476,106
				\$ -
Miscellaneous Overhead				\$ 580,455
Gas Cost Other than Bad Debt and Working Capital				
Beginning Balance Over/Under Collection				\$ (31,102,484)
Net Costs - Revenues				\$ (252,937)
Ending Balance before Interest				\$ (31,355,421)
Average Balance				\$ (31,228,953)
Interest Rate				\$ (84,578)
Interest Expense				\$ (84,578)
Ending Balance Incl Interest Expense			\$ 244,694	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	\$ 967,189	\$ 190,386	\$ 199,037	\$ 1,356,612
Total Cost of Gas	\$ 27,789,154	\$ 9,859,405	\$ 199,037	\$ 37,847,595
Total Interest	\$ (42,008)	\$ (41,384)		\$ (83,393)