Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

Total Fixed Capacity Costs To Be Allocated

	NUI Total	
Pipeline Demand	$ 24,102,032	
Storage Demand	$ 26,034,409	
On-system Peaking Demand	$ 3,405,640	
Subtotal Demand	$ 53,542,080	
Capacity Release (Credit)	$ -	
Asset Management (Credit)	$ (20,934,600)	
Total Net Demand Costs	$ 32,607,480	
Off-System Peaking Demand	$ 9,621,667	PR Allocation on Page 5
Total Demand Costs	$ 42,229,146	

Proportional Responsibility (PR) Allocators

Allocation of Product and Pipeline Demand Costs (including Injections) to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
Design Year Pipeline Sendout	733,415	1,369,299	1,461,075	1,581,887	2,078,087	1,229,169	749,833	479,460	466,887	441,268	510,686	891,226	11,992,293
Rank	8	4	3	2	1	5	7	10	11	12	9	6	
% Max Month	35.29%	65.89%	70.31%	76.12%	100.00%	59.15%	36.08%	23.07%	22.47%	21.23%	24.57%	42.89%	
PR	1.34%	1.69%	1.47%	2.91%	23.88%	3.25%	0.11%	0.06%	0.11%	1.77%	0.17%	1.13%	37.89%
CumPR	3.45%	9.63%	11.11%	14.01%	37.89%	7.95%	3.56%	1.94%	1.88%	1.77%	2.11%	4.70%	100.00%
Product and Pipeline Demand Costs	$ 831,234	$ 2,321,972	$ 2,676,784	$ 3,377,382	$ 9,132,401	$ 1,915,659	$ 858,436	$ 468,087	$ 453,504	$ 426,492	$ 508,327	$1,131,753	$ 24,102,032

Allocation of Storage Injection Fees to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
Storage Injection Volume	-	-	-	-	-	-	-	-	-	-	-	-	-
Design Year Pipeline Sendout	733,415	1,369,299	1,461,075	1,581,887	2,078,087	1,229,169	749,833	479,460	466,887	441,268	510,686	891,226	11,992,293
% of Deliveries Injected	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Allocation of Storage Demand Costs to Months

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
Design Year Storage	934,931	1,020,492	1,190,959	858,061	103,397	-	-	-	-	-	-	-	4,107,840
Rank	3	2	1	4	5	6	6	6	6	6	6	6	
% Max Month	78.50%	85.69%	100.00%	72.05%	8.68%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
PR	2.15%	3.59%	14.31%	15.84%	1.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	37.63%
CumPR	19.73%	23.32%	37.63%	17.58%	1.74%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
Storage Demand Costs	$ 5,136,426	$ 6,071,606	$ 9,798,023	$ 4,576,301	$ 452,052	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 26,034,409
Plus Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
TOTAL	$ 5,136,426	$ 6,071,606	$ 9,798,023	$ 4,576,301	$ 452,052	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 26,034,409

Allocation of All Peaking Demand Costs Excluding Off-System Peaking

	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
Design Year Peaking Volumes	1,801	1,860	31,260	1,680	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	51,301
Rank	8	7	1	12	6	11	5	10	4	3	9	2	
% Max Month	5.76%	5.95%	100.00%	5.37%	5.95%	5.76%	5.95%	5.76%	5.95%	5.95%	5.76%	5.95%	
PR	0.00%	0.03%	94.05%	0.45%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	94.56%
CumPR	0.48%	0.51%	94.56%	0.45%	0.51%	0.48%	0.51%	0.48%	0.51%	0.51%	0.48%	0.51%	100.00%
Peaking Demand Costs	$ 16,455	$ 17,373	$ 3,220,374	$ 15,252	$ 17,373	$ 16,441	$ 17,373	$ 16,441	$ 17,373	$ 17,373	$ 16,441	$ 17,373	$ 3,405,640

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

1		
2		`
3	Pipeline Demand	NUI-FXW-5, PG 1, LN 1
4	Storage Demand	NUI-FXW-5, PG 1, LN 2 + 3
5	On-system Peaking Demand	NUI-FXW-5, PG 1, LN 4 + 5
6	Subtotal Demand	Sum LN 3 : LN 5
7		
8	Capacity Release (Credit)	NUI-FXW-5, PG 6
9	Asset Management (Credit)	NUI-FXW-5, PG 6
10	Total Net Demand Costs	Sum LN 6 : LN 9
11		
12	Off-System Peaking Demand	NUI-FXW-5, PG 5
13		
14	Total Demand Costs	LN 10 + LN 12
15		
16	**Proportional Responsibility (PR) Allocators**	
17		
18	**Allocation of Product and Pipeline Demand Costs (including Injections) to Months**	
19		
20	Design Year Pipeline Sendout	Company Analysis
21	Rank	LN 20 Ranking
22	% Max Month	LN 20 / LN 20 MAX
23	PR	The difference between LN 22 for the month and LN 22 for next highest rank
24	CumPR	Cumulative Values, LN 23
25	Product and Pipeline Demand Costs	LN 24 * LN 3
26		
27	**Allocation of Storage Injection Fees to Months**	
28		
29	Storage Injection Volume	Company Analysis
30	Design Year Pipeline Sendout	LN 20
31	% of Deliveries Injected	LN 29 / Sum (LN 29 : LN 30)
32	Injection Fees	LN 31 * LN 25
33		
34	**Allocation of Storage Demand Costs to Months**	
35		
36	Design Year Storage	Company Analysis
37	Rank	LN 36 Ranking
38	% Max Month	LN 36 / LN 36 MAX
39	PR	The difference between LN 38 for the month and LN 38 for next highest rank
40	CumPR	Cumulative Values, LN 39
41	Storage Demand Costs	LN 40 * LN 4
42	Plus Injection Fees	LN 32
43	TOTAL	LN 41 + LN 42
44		
45	**Allocation of All Peaking Demand Costs Excluding Off-System Peaking**	
46		
47	Design Year Peaking Volumes	Company Analysis
48	Rank	LN 47 Ranking
49	% Max Month	LN 47 / LN 47 MAX
50	PR	The difference between LN 49 for the month and LN 49 for next highest rank
51	CumPR	Cumulative Values, LN 50
52	Peaking Demand Costs	LN 51 * LN 5

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
Pipeline & Product Demand	$ 831,234	$ 2,321,972	$ 2,676,784	$ 3,377,382	$ 9,132,401	$ 1,915,659	$ 858,436	$ 468,087	$ 453,504	$ 426,492	$ 508,327	$1,131,753	$ 24,102,032
Storage Incld Inj Fees	$ 5,136,426	$ 6,071,606	$ 9,798,023	$ 4,576,301	$ 452,052	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 26,034,409
On-system Peaking	$ 16,455	$ 17,373	$ 3,220,374	$ 15,252	$ 17,373	$ 16,441	$ 17,373	$ 16,441	$ 17,373	$ 17,373	$ 16,441	$ 17,373	$ 3,405,640
Less Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Less: Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Less: Asset Mgmt	$ (3,489,100)	$ (3,489,100)	$ (3,489,100)	$ (3,489,100)	$ (3,489,100)	$(3,489,100)	$ -	$ -	$ -	$ -	$ -	$ -	$ (20,934,600)
Total Demand	$ 2,495,014	$ 4,921,850	$ 12,206,081	$ 4,479,836	$ 6,112,726	$(1,557,000)	$ 875,809	$ 484,528	$ 470,877	$ 443,865	$ 524,768	$1,149,126	$ 32,607,480

Capacity Cost Allocator based on Design Year Firm Sendout

	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Annual
Therms													
Maine	985,860	1,418,504	1,723,753	1,481,161	1,295,643	749,782	453,970	287,841	278,063	267,587	306,310	528,420	9,776,896
New Hampshire	684,286	1,012,694	1,233,598	1,043,889	895,702	481,187	297,723	193,419	190,684	175,541	206,176	364,666	6,779,564
Total	1,670,146	2,431,199	2,957,351	2,525,050	2,191,345	1,230,969	751,693	481,260	468,747	443,128	512,486	893,086	16,556,460

Percentage of Total	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
Maine	59.03%	58.35%	58.29%	58.66%	59.13%	60.91%	60.39%	59.81%	59.32%	60.39%	59.77%	59.17%	58.61%
New Hampshire	40.97%	41.65%	41.71%	41.34%	40.87%	39.09%	39.61%	40.19%	40.68%	39.61%	40.23%	40.83%	41.39%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Allocation of Demand Costs by Division

Maine	$1,472,766	$2,871,697	$7,114,566	$2,627,813	$3,614,179	($948,368)	$528,928	$289,795	$279,327	$268,032	$313,651	$679,913	$19,112,300
New Hampshire	$1,022,248	$2,050,153	$5,091,515	$1,852,023	$2,498,547	($608,633)	$346,881	$194,732	$191,551	$175,833	$211,117	$469,213	$13,495,181
Total	$ 2,495,014	$ 4,921,850	$ 12,206,081	$ 4,479,836	$ 6,112,726	$ (1,557,000)	$ 875,809	$ 484,528	$ 470,877	$ 443,865	$ 524,768	$ 1,149,126	$ 32,607,480

Detailed Allocation of Demand Costs by Division

Maine	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
Pipeline & Product Demand	$ 490,664	$ 1,354,775	$ 1,560,219	$ 1,981,128	$ 5,399,576	$ 1,166,826	$ 518,436	$ 279,962	$ 269,021	$ 257,541	$ 303,825	$ 669,634	$ 14,251,607	59.13%
Storage Incld Injection Fees	$ 3,031,949	$ 3,542,532	$ 5,710,980	$ 2,684,398	$ 267,278	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,237,137	58.53%
On-system Peaking	$ 9,713	$ 10,136	$ 1,877,061	$ 8,947	$ 10,272	$ 10,014	$ 10,492	$ 9,833	$ 10,306	$ 10,491	$ 9,827	$ 10,279	$ 1,987,370	58.36%
Less: Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Capacity Release (Credit)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Asset Management (Credit)	$ (2,059,559)	$ (2,035,746)	$ (2,033,694)	$ (2,046,660)	$ (2,062,947)	$ (2,125,208)	$ -	$ -	$ -	$ -	$ -	$ -	$ (12,363,814)	59.06%
Total Allocated Demand	$ 1,472,766	$ 2,871,697	$ 7,114,566	$ 2,627,813	$ 3,614,179	$ (948,368)	$ 528,928	$ 289,795	$ 279,327	$ 268,032	$ 313,651	$ 679,913	$ 19,112,300	58.61%

New Hampshire	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
Pipeline & Product Demand	$ 340,570	$ 967,197	$ 1,116,565	$ 1,396,254	$ 3,732,825	$ 748,832	$ 340,000	$ 188,124	$ 184,483	$ 168,951	$ 204,503	$ 462,119	$ 9,850,425	40.87%
Storage Incld Injection Fees	$ 2,104,478	$ 2,529,074	$ 4,087,043	$ 1,891,903	$ 184,774	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 10,797,272	41.47%
On-system Peaking	$ 6,742	$ 7,236	$ 1,343,312	$ 6,306	$ 7,101	$ 6,427	$ 6,881	$ 6,608	$ 7,067	$ 6,882	$ 6,614	$ 7,094	$ 1,418,269	41.64%
Less: Injection Fees	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Capacity Release	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	0.00%
Asset Management	$ (1,429,541)	$ (1,453,354)	$ (1,455,406)	$ (1,442,440)	$ (1,426,153)	$ (1,363,892)	$ -	$ -	$ -	$ -	$ -	$ -	$ (8,570,786)	40.94%
Total Allocated Demand	$ 1,022,248	$ 2,050,153	$ 5,091,515	$ 1,852,023	$ 2,498,547	$ (608,633)	$ 346,881	$ 194,732	$ 191,551	$ 175,833	$ 211,117	$ 469,213	$ 13,495,181	41.39%

Northern Utilities
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ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

LN		
53		
54	Pipeline & Product Demand	LN 25
55	Storage	LN 43
56	Peaking	LN 52
57	Less: Injection Fees	-(LN 32)
58	Less: Capacity Release	-(LN 8 / 5)
59	Less: Asset Management	-(LN 9 / 6)
60	Total Demand	Sum (LN 54 : LN 59)
61		
62	**Capacity Cost Allocator based on Design Year Firm Sendout**	
63		
64	**Therms**	
65	Maine	Company Analysis
66	New Hampshire	Company Analysis
67	Total	LN 65 + LN 66
68		
69	**Percentage of Total**	
70	Maine	LN 65 / LN 67
71	New Hampshire	LN 66 / LN 67
72	Total	LN 70 + LN 71
73		
74	**Allocation of Demand Costs by Division**	
75	Maine	LN 60 * LN 70
76	New Hampshire	LN 60 * LN 71
77	Total	LN 75 + LN 76
78		
79	**Detailed Allocation of Demand Costs by Division**	
80	**Maine**	
81	Pipeline & Product Demand	LN 54 * LN 70
82	Storage	LN 55 * LN 70
83	Peaking	LN 56 * LN 70
84	Injection Fees	LN 57 * LN 70
85	Capacity Release (Credit)	LN 58 * LN 70
86	Asset Management (Credit)	LN 59 * LN 70
87	**Total Allocated Demand**	Sum (LN 81 : LN 86)
88		
89	**New Hampshire**	
90	Pipeline & Product Demand	LN 54 * LN 71
91	Storage	LN 55 * LN 71
92	Peaking	LN 56 * LN 71
93	Injection Fees	LN 57 * LN 71
94	Capacity Release	LN 58 * LN 71
95	Asset Management (Credit)	LN 59 * LN 71
96	**Total Allocated Demand**	Sum (LN 90 : LN 95)

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ALLOCATION OF NORTHERN FIXED CAPACITY COSTS BETWEEN ME & NH DIVISIONS

97 **Off-System Peaking Demand Costs** $ 9,621,667

99 **Allocation of Off-system Peaking Demand Costs to Months**

		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Annual
101	Design Year Peaking Volumes	-	39,549	274,057	83,421	8,001	-	-	-	-	-	-	-	405,028
102	Rank	5	3	1	2	4	5	5	5	5	5	5	5	
103	% Max Month	0.00%	14.43%	100.00%	30.44%	2.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
104	PR	0.00%	3.84%	69.56%	8.00%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	82.13%
105	CumPR	0.00%	4.57%	82.13%	12.57%	0.73%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
106	Peaking Demand Costs	$ -	$ 439,424	$ 7,902,460	$ 1,209,560	$ 70,222	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,621,667

108 **Capacity Cost Allocator based on Design Year Sales**

109		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
110	**Therms**													
111	Maine	800,009	1,168,209	1,431,609	1,217,572	1,059,886	599,985	355,959	223,354	215,200	210,160	235,401	415,463	7,932,807
112	New Hampshire	474,912	739,691	921,667	772,498	645,945	314,290	169,305	98,756	91,640	87,809	99,776	217,652	4,633,941
113	Total	1,274,921	1,907,901	2,353,276	1,990,070	1,705,831	914,274	525,264	322,110	306,840	297,969	335,176	633,115	12,566,747

115	**Percentage of Total**	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Annual
116	Maine	62.75%	61.23%	60.83%	61.18%	62.13%	65.62%	67.77%	69.34%	70.13%	70.53%	70.23%	65.62%	60.91%
117	New Hampshire	37.25%	38.77%	39.17%	38.82%	37.87%	34.38%	32.23%	30.66%	29.87%	29.47%	29.77%	34.38%	39.09%
118	Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

120 **Allocation of Off-System Peaking Demand Costs by Division**

121	Maine	$0	$269,060	$4,807,441	$740,038	$43,631	$0	$0	$0	$0	$0	$0	$0	$5,860,170
122	New Hampshire	$0	$170,364	$3,095,019	$469,522	$26,591	$0	$0	$0	$0	$0	$0	$0	$3,761,497
123	Total	$ -	$ 439,424	$ 7,902,460	$ 1,209,560	$ 70,222	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,621,667

Total Weighted Average MPR Factor

124	**Maine**	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
125	Total Pipeline, Storage & On-system	$ 1,472,766	$ 2,871,697	$ 7,114,566	$ 2,627,813	$ 3,614,179	$ (948,368)	$ 528,928	$ 289,795	$ 279,327	$ 268,032	$ 313,651	$ 679,913	$ 19,112,300	58.61%
126	Total Off-system Peaking	$0	$269,060	$4,807,441	$740,038	$43,631	$0	$0	$0	$0	$0	$0	$0	$ 5,860,170	60.91%
127	Total Demand Cost Allocation	$ 1,472,766	$ 3,140,757	$ 11,922,007	$ 3,367,850	$ 3,657,810	$ (948,368)	$ 528,928	$ 289,795	$ 279,327	$ 268,032	$ 313,651	$ 679,913	$ 24,972,469	**59.14%**

129	**New Hampshire**	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	
130	Total Pipeline, Storage & On-system	$ 1,022,248	$ 2,050,153	$ 5,091,515	$ 1,852,023	$ 2,498,547	$ (608,633)	$ 346,881	$ 194,732	$ 191,551	$ 175,833	$ 211,117	$ 469,213	$ 13,495,181	41.39%
131	Total Off-system Peaking	$0	$170,364	$3,095,019	$469,522	$26,591	$0	$0	$0	$0	$0	$0	$0	$ 3,761,497	39.09%
132	Total Demand Cost Allocation	$ 1,022,248	$ 2,220,518	$ 8,186,534	$ 2,321,546	$ 2,525,138	$ (608,633)	$ 346,881	$ 194,732	$ 191,551	$ 175,833	$ 211,117	$ 469,213	$ 17,256,678	**40.86%**

134	**Total Northern**	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual
135	Total Pipeline, Storage & On-system	$ 2,495,014	$ 4,921,850	$ 12,206,081	$ 4,479,836	$ 6,112,726	$ (1,557,000)	$ 875,809	$ 484,528	$ 470,877	$ 443,865	$ 524,768	$ 1,149,126	$ 32,607,480
136	Total Off-system Peaking	$ -	$ 439,424	$ 7,902,460	$ 1,209,560	$ 70,222	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,621,667
137	Total Demand Cost Allocation	$ 2,495,014	$ 5,361,275	$ 20,108,541	$ 5,689,396	$ 6,182,948	$ (1,557,000)	$ 875,809	$ 484,528	$ 470,877	$ 443,865	$ 524,768	$ 1,149,126	$ 42,229,147

97	**Off-System Peaking Demand Costs**	LN 12
98		
99	**Allocation of Off-system Peaking Demand Costs to Months**	
100		
101	Design Year Peaking Volumes	Company Analysis
102	Rank	LN 101 Ranking
103	% Max Month	LN 101 / LN 101 MAX
104	PR	The difference between LN 103 for the month and LN 103 for next highest rank
105	CumPR	Cumulative Values, LN 104
106	Peaking Demand Costs	LN 105 * LN 97
107		
108	**Capacity Cost Allocator based on Design Year Sales**	
109		
110	**Therms**	
111	Maine	Company Analysis
112	New Hampshire	Company Analysis
113	Total	LN 111 + LN 112
114		
115	**Percentage of Total**	
116	Maine	LN 111 / LN 113
117	New Hampshire	LN 112 / LN 113
118	Total	LN 116 + LN 117
119		
120	**Allocation of Off-System Peaking Demand Costs by Division**	
121	Maine	LN 106 * LN 116
122	New Hampshire	LN 106 * LN 117
123	Total	LN 121 + LN 122

Total Weighted Average MPR Factor

124	**Maine**	
125	Total Pipeline, Storage & On-system	LN 87
126	Total Off-system Peaking	LN 121
127	Total Demand Cost Allocation	LN 125 + LN 126
128		
129	**New Hampshire**	
130	Total Pipeline, Storage & On-system	LN 96
131	Total Off-system Peaking	LN 122
132	Total Demand Cost Allocation	LN 130 + Ln 131
133		
134	**Total Northern**	
135	Total Pipeline, Storage & On-system	LN 125 + LN 130
136	Total Off-system Peaking	LN 126 + LN 131
137	Total Demand Cost Allocation	LN 127 + LN 132

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

NH Division Total Annual Demand Cost Allocation

1	**Resource**	**Costs**
2	Pipeline & Product Demand	$ 9,850,425
3	Storage	$ 10,797,272
4	On-system Peaking	$ 1,418,269
5	Total Gross Demand Cost	$ 22,065,966
6		
7	Capacity Assignment Demand Revenue Estimate	$ 5,457,743
8	NH Total Pipeline, Storage & Peaking Demand Cost	$ 22,065,966
9	Capacity Assignment as % of Total Gross Demand Cost	24.73%
10		
11		**Costs**
12	Pipeline & Product Demand	$ 2,436,380
13	Storage	$ 2,670,571
14	On-system Peaking	$ 350,791
15	Total Capacity Assignment Credit	$ 5,457,743
16		
17	NH Net Annual Demand Cost (Less Capacity Assignment)	
18		**Costs**
19	Pipeline & Product Demand	$ 7,414,044
20	Storage	$ 8,126,701
21	On-system Peaking	$ 1,067,478
22	Total Net Demand Cost (Less Capacity Assignment)	$ 16,608,223
23		
24	**DEVELOPMENT OF BASE AND REMAINING PIPELINE DEMAND COSTS**	
25		MMBtu/day
26	Pipeline MDQ	20,660
27	Less 24.73% NH Transp. Capacity Assignment	(5,110)
28	Net Pipeline MDQ	15,550
29		
30	Net Pipeline MDQ	15,550
31	Less: Firm Sales Base Use	3,374
32	Remaining Pipeline MDQ	12,176
33		
34		**Unit Cost**
35	Pipeline Unit Cost	$476.79
36		
37		**Costs**
38	Pipeline & Product Demand	$ 7,414,044
39	Less: Base Pipeline Use	$ 1,608,668
40	Remaining Pipeline Use	$ 5,805,376

1	**Resource**	
2	Pipeline & Product Demand	Attachment NUI-CAK-1, LN 90 + Attachment NUI-CAK-1, LN 93
3	Storage	Attachment NUI-CAK-1, LN 91
4	On-system Peaking	Attachment NUI-CAK-1, LN 92
5	Total Gross Demand Cost	Sum (LN 2 : LN 4)
6		
7	Capacity Assignment Demand Revenue Estimate	Attachment NUI-FXW-6, Page 1
8	NH Total Pipeline, Storage & Peaking Demand Cost	LN 5
9	Capacity Assignment as % of Total Gross Demand Cost	LN 7 / LN 8
10		
11		
12	Pipeline & Product Demand	LN 2 * LN 9
13	Storage	LN 3 * LN 9
14	On-system Peaking	LN 4 * LN 9
15	Total Capacity Assignment Credit	Sum (LN 12 : LN 14)
16		
17	NH Net Annual Demand Cost (Less Capacity Assignment)	
18		
19	Pipeline & Product Demand	LN 2 - LN 12
20	Storage	LN 3 - LN 13
21	On-system Peaking	LN 4 - LN 14
22	Total Net Demand Cost (Less Capacity Assignment)	LN 5 - LN 15
23		
24	**DEVELOPMENT OF BASE AND REMAINING PIPELINE DEMAND (**	
25		
26	Pipeline MDQ	Company Analysis
27	Less 24.73% NH Transp. Capacity Assignment	-(LN 26) * LN 9
28	Net Pipeline MDQ	Sum (LN 26 : LN 27)
29		
30	Net Pipeline MDQ	LN 28
31	Less: Firm Sales Base Use	Attachment NUI-CAK-3, LN 48 / 10
32	Remaining Pipeline MDQ	LN 30 - LN 31
33		
34		
35	Pipeline Unit Cost	LN 19 / LN 30
36		
37		
38	Pipeline & Product Demand	LN 19
39	Less: Base Pipeline Use	LN 35 * LN 31
40	Remaining Pipeline Use	LN 38 - LN 39

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR ALLOCATORS)
(Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)

All Months	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**
Remaining Load for All Months	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797
Rank	5	3	1	2	4	6
% Max Month	53.07%	82.50%	100.00%	85.03%	68.88%	34.15%
PR	3.78%	4.54%	14.97%	1.27%	3.95%	2.59%
CumPR	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%

Peak Months Only	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**
Remaining Load for Peak Months Only	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797
Rank	5	3	1	2	4	6
% Max Month	53.07%	82.50%	100.00%	85.03%	68.88%	34.15%
PR	3.78%	4.54%	14.97%	1.27%	3.95%	5.69%
CumPR	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%

DEMAND COST PR ALLOCATORS

	Nov	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**
Pipeline - Base	8.33%	8.33%	8.33%	8.33%	8.33%	8.33%
Pipeline - Remaining	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%
Storage & Peaking	8.75%	17.25%	33.48%	18.52%	12.71%	4.97%
Capacity Release	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%
Off-system Peaking	9.29%	17.64%	34.66%	18.93%	13.70%	5.79%
Interr. Margins & Off Sys Sales	9.48%	17.97%	34.20%	19.24%	13.43%	5.69%

DEMAND COSTS ALLOCATED TO MONTHS

	Nov	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**
Pipeline - Base	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056
Pipeline - Remaining	$ 508,235	$ 1,001,301	$ 1,943,718	$ 1,074,869	$ 737,672	$ 288,576
Total Pipeline	$ 642,291	$ 1,135,356	$ 2,077,773	$ 1,208,925	$ 871,728	$ 422,631
Storage & On-system Peaking	$ 804,909	$ 1,585,795	$ 3,078,334	$ 1,702,309	$ 1,168,277	$ 457,028
Off-system Peaking	$349,433	$663,430	$1,303,698	$712,091	$515,142	$217,703
Less Credits to Demand Cost						
Cap Rel Margins & Asset Mgt Credits	$ 812,096	$ 1,540,035	$ 2,931,376	$ 1,648,649	$ 1,150,827	$ 487,802
Interruptible Margins	$ -	$ -	$ -	$ -	$ -	$ -
Conversion Rate and Re-entry Rate Credits	$ 474	$ 898	$ 1,710	$ 962	$ 671	$ 285
Total Direct Demand Costs	$ 984,063	$ 1,843,647	$ 3,526,719	$ 1,973,714	$ 1,403,649	$ 609,275

Indirect Demand Costs/(Credits)	
Miscellaneous Overhead	
Local Production & Storage	
Subtotal	

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR ALLOCATORS)
(Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)

All Months	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer
Remaining Load for All Months	835,890	206,864	0	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281
Rank	8	9	12	11	10	7			
% Max Month	11.89%	2.94%	0.00%	0.06%	2.17%	18.59%			
PR	1.12%	0.09%	0.00%	0.01%	0.21%	0.96%	33.48%		
CumPR	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%

Peak Months Only	Annual	Winter	Summer
Remaining Load for Peak Months Only	29,770,203	29,770,203	
Rank			
% Max Month			
PR	34.20%		
CumPR	100.00%	100.00%	0.00%

DEMAND COST PR ALLOCATORS

	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer
Pipeline - Base	8.33%	8.33%	8.33%	8.33%	8.33%	8.33%	100.00%	50.00%	50.00%
Pipeline - Remaining	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%
Storage & Peaking	1.42%	0.30%	0.00%	0.01%	0.22%	2.38%	100.00%	95.68%	4.32%
Capacity Release	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%
Off-system Peaking	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%
Interr. Margins & Off Sys Sales	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	0.00%

DEMAND COSTS ALLOCATED TO MONTHS

	May	Jun	Jul	Aug	Sep	Oct	Annual	Winter	Summer	Winter	Summer
Pipeline - Base	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 1,608,668	$ 804,334	$ 804,334	50.00%	50.00%
Pipeline - Remaining	$ 82,507	$ 17,552	$ -	$ 327	$ 12,591	$ 138,029	$ 5,805,376	$ 5,554,370	$ 251,006	95.68%	4.32%
Total Pipeline	$ 216,563	$ 151,608	$ 134,056	$ 134,383	$ 146,646	$ 272,085	$ 7,414,044	$ 6,358,704	$ 1,055,340	85.77%	14.23%
Storage & On-system Peaking	$ 130,669	$ 27,798	$ -	$ 518	$ 19,940	$ 218,601	$ 9,194,179	$ 8,796,652	$ 397,527	95.68%	4.32%
Off-system Peaking	$0	$0	$0	$0	$0	$0	$ 3,761,497	$ 3,761,497	$ -	100.00%	0.00%
Less Credits to Demand Cost											
Cap Rel Margins & Asset Mgt Credits	$ -	$ -	$ -	$ -	$ -	$ -	$8,570,786	$ 8,570,786	$ -	100.00%	0.00%
Interruptible Margins	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		
Conversion Rate and Re-entry Rate Credits	$ -	$ -	$ -	$ -	$ -	$ -	$ 5,000	$ 5,000	$ -		
Total Direct Demand Costs	$ 347,232	$ 179,406	$ 134,056	$ 134,901	$ 166,587	$ 490,686	$ 11,793,935	$ 10,341,068	$ 1,452,867	87.68%	12.32%

Indirect Demand Costs/(Credits)	Annual	Winter	Summer	Winter	Summer
Miscellaneous Overhead	$ 611,875	$ 492,287	$ 119,588	80.46%	19.54%
Local Production & Storage	$ 214,538	$ 214,538	$ -	100.00%	0.00%
Subtotal	$ 826,413	$ 706,825	$ 119,588	85.53%	14.47%

Northern Utilities - NEW HAMPSHIRE DIVISION
Simplified Market Based Allocator (SMBA) Calculations
DEMAND COSTS

41	**NH DIVISION MONTHLY PROPORTIONAL RESPONSIBILITY (PR ALLOCATORS)**	
42	(Based on NH Firm Sales Sendout for Remaining Temperature Sensitive Load)	
43		
44	**All Months**	
45	Remaining Load for All Months	Attachment NUI-CAK-3, LN 80
46	Rank	Rank LN 45
47	% Max Month	LN 45 / MAX Month LN 45
48	PR	The difference between LN 47 for the month and LN 47 for next highest rank
49	CumPR	Cumulative Values, LN 48
50		
51	**Peak Months Only**	
52	Remaining Load for Peak Months Only	LN 45
53	Rank	Rank LN 52
54	% Max Month	LN 52 / MAX Month LN 52
55	PR	The difference between LN 54 for the month and LN 54 for next highest rank
56	CumPR	Cumulative Values, LN 55
57		
58	**DEMAND COST PR ALLOCATORS**	
59		
60	Pipeline - Base	1/12
61	Pipeline - Remaining	LN 49
62	Storage & Peaking	LN 49
63	Capacity Release	LN 56
64	Off-system Peaking	LN 56
65	Interr. Margins & Off Sys Sales	LN 56
66		
67	**DEMAND COSTS ALLOCATED TO MONTHS**	
68		
69	Pipeline - Base	LN 39 * LN 60
70	Pipeline - Remaining	LN 40 * LN 61
71	Total Pipeline	LN 69 + LN 70
72		
73	Storage & On-system Peaking	LN 62 * (Sum LN 20 : LN 21)
74	Off-system Peaking	Attachment NUI-CAK-1, LN 122,* LN 64
75		
76	Less Credits to Demand Cost	
77	Cap Rel Margins & Asset Mgt Credits	Attachment NUI-CAK-1, LN 95 * LN 63
78	Interruptible Margins	
79	Conversion Rate and Re-entry Rate Credits	Company Analysis
80	Total Direct Demand Costs	LN 71 + LN 73 + LN 74 - (Sum LN 76 : LN 79)
81		
82	Indirect Demand Costs/(Credits)	
83	Miscellaneous Overhead	Company Analysis
84	Local Production & Storage	Company Analysis
85	Subtotal	LN 83 + LN 84

Northern Utilities - NEW HAMPSHIRE DIVISION
2022 - 2023 Period

Line No.	Forecasted Normal Sales By Class- Therms Calendar Month Firm Sales Volumes Normal Winter	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
1	Res Heat	2,200,358	3,178,354	3,749,541	3,214,066	2,733,719	1,576,182	770,832	499,350	426,650	430,219	477,208	963,546	20,220,025	16,652,220	3,567,805
2	Res General	20,418	29,493	34,793	29,824	25,367	14,626	17,490	11,330	9,680	9,761	10,827	21,862	235,471	154,521	80,950
3	**Total Residential**	**2,220,775**	**3,207,847**	**3,784,334**	**3,243,890**	**2,759,086**	**1,590,808**	**788,321**	**510,680**	**436,331**	**439,981**	**488,035**	**985,408**	**20,455,496**	**16,806,740**	**3,648,755**
4	G50 Low Annual-Low Winter	115,068	166,213	196,083	168,080	142,961	82,427	140,299	90,887	77,655	78,304	86,857	175,375	1,520,208	870,832	649,376
5	G40 Low Annual-High Winter	1,113,910	1,609,011	1,898,169	1,627,090	1,383,919	797,927	272,568	176,571	150,864	152,126	168,742	340,712	9,691,608	8,430,026	1,261,583
6	G51 Med Annual-Low Winter	217,427	314,067	370,508	317,596	270,131	155,749	235,604	152,626	130,405	131,496	145,858	294,507	2,735,973	1,645,477	1,090,496
7	G41 Med Annual-High Winter	778,616	1,124,689	1,326,808	1,137,325	967,351	557,746	261,107	169,147	144,521	145,730	161,646	326,385	7,101,070	5,892,535	1,208,535
8	G52 High Annual-Low Winter	50,471	72,904	86,006	73,723	62,705	36,154	100,708	65,239	55,741	56,208	62,346	125,886	848,091	381,963	466,128
9	G42 High Annual-High Winter	195,539	282,451	333,210	285,624	242,937	140,070	64,965	42,085	35,958	36,258	40,219	81,207	1,780,522	1,479,832	300,691
10	**Total C&I**	**2,471,031**	**3,569,334**	**4,210,784**	**3,609,438**	**3,070,003**	**1,770,074**	**1,075,250**	**696,554**	**595,144**	**600,123**	**665,667**	**1,344,072**	**23,677,473**	**18,700,664**	**4,976,809**
11	**Total Sales**	**4,691,806**	**6,777,181**	**7,995,118**	**6,853,328**	**5,829,089**	**3,360,882**	**1,863,572**	**1,207,233**	**1,031,474**	**1,040,103**	**1,153,702**	**2,329,480**	**44,132,969**	**35,507,405**	**8,625,565**
12																
13	Residential Heat & Non Heat	2,220,775	3,207,847	3,784,334	3,243,890	2,759,086	1,590,808	788,321	510,680	436,331	439,981	488,035	985,408	20,455,496	16,806,740	3,648,755
14	SALES HLF CLASSES	382,966	553,184	652,597	559,399	475,796	274,330	476,611	308,752	263,801	266,008	295,061	595,768	5,104,273	2,898,272	2,206,001
15	SALES LLF CLASSES	2,088,065	3,016,150	3,558,187	3,050,039	2,594,207	1,495,743	598,639	387,802	331,343	334,115	370,606	748,304	18,573,201	15,802,392	2,770,809
16	**Total Firm Sales**	**4,691,806**	**6,777,181**	**7,995,118**	**6,853,328**	**5,829,089**	**3,360,882**	**1,863,572**	**1,207,233**	**1,031,474**	**1,040,103**	**1,153,702**	**2,329,480**	**44,132,969**	**35,507,405**	**8,625,565**
17																
18	**ESTIMATED SENDOUT BY CLASS - Therms**															
19	Calendar Month Sendout Volumes (Includes Loss & Unaccounted For)															
20	Normal Winter	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**SUMMER**
21	Res Heat	2,221,909	3,209,485	3,786,266	3,245,546	2,760,495	1,591,620	778,382	504,241	430,829	434,433	481,882	972,984	20,418,070	16,815,320	3,602,750
22	Res General	20,618	29,782	35,134	30,116	25,615	14,769	17,661	11,441	9,775	9,857	10,933	22,076	237,777	156,034	81,743
23	G50 Low Annual-Low Winter	116,195	167,841	198,004	169,727	144,361	83,234	141,673	91,777	78,415	79,071	87,707	177,093	1,535,098	879,362	655,736
24	G40 Low Annual-High Winter	1,124,820	1,624,771	1,916,760	1,643,026	1,397,474	805,742	275,237	178,300	152,342	153,616	170,394	344,049	9,786,533	8,512,594	1,273,939
25	G51 Med Annual-Low Winter	219,556	317,143	374,137	320,706	272,776	157,275	237,912	154,121	131,683	132,784	147,287	297,392	2,762,771	1,661,594	1,101,177
26	G41 Med Annual-High Winter	786,242	1,135,704	1,339,803	1,148,465	976,825	563,209	263,664	170,803	145,936	147,157	163,229	329,582	7,170,622	5,950,249	1,220,372
27	G52 High Annual-Low Winter	50,965	73,618	86,848	74,445	63,319	36,508	101,694	65,878	56,287	56,758	62,957	127,119	856,398	385,704	470,694
28	G42 High Annual-High Winter	197,454	285,217	336,474	288,422	245,317	141,442	65,601	42,497	36,310	36,614	40,612	82,002	1,797,961	1,494,326	303,636
29	**Subtotal**															
30	Residential	2,242,527	3,239,266	3,821,400	3,275,662	2,786,110	1,606,389	796,043	515,681	440,604	444,290	492,815	995,060	20,655,848	16,971,354	3,684,493
31	SALES HLF CLASSES	386,717	558,602	658,989	564,878	480,456	277,017	481,279	311,776	266,385	268,613	297,951	601,603	5,154,267	2,926,659	2,227,607
32	SALES LLF CLASSES	2,108,516	3,045,692	3,593,038	3,079,913	2,619,616	1,510,394	604,502	391,601	334,588	337,387	374,236	755,633	18,755,116	15,957,169	2,797,947
33	**Total Firm Sales**	4,737,760	6,843,561	8,073,426	6,920,453	5,886,183	3,393,800	1,881,824	1,219,058	1,041,577	1,050,291	1,165,002	2,352,296	44,565,231	35,855,183	8,710,048

Northern Utilities - NEW HAMPSHIRE DIVISION
2022 - 2023 Period

Line No.	Forecasted Normal Sales By Class- Therms Calendar Month Firm Sales Volumes	
	Firm Sales	
1	Res Heat	(Attachment NUI-FXW-2, Page 1) * 10
2	Res General	(Attachment NUI-FXW-2, Page 1) * 10
3	**Total Residential**	Sum LN 1 : LN 2
4	G50 Low Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
5	G40 Low Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
6	G51 Med Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
7	G41 Med Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
8	G52 High Annual-Low Winter	(Attachment NUI-FXW-2, Page 1) * 10
9	G42 High Annual-High Winter	(Attachment NUI-FXW-2, Page 1) * 10
10	**Total C&I**	Sum LN 4 : LN 9
11	**Total Sales**	LN 3 + LN 10
12		
13	Residential Heat & Non Heat	LN 3
14	SALES HLF CLASSES	LN 4 + LN 6 + LN 8
15	SALES LLF CLASSES	LN 5 + LN 7 + LN 9
16	**Total Firm Sales**	Sum LN 13 : LN 15
17		
18	**ESTIMATED SENDOUT BY CLASS - Therms**	
19	Calendar Month Sendout Volumes (Includes Loss & Unaccounted For)	Unaccounted For)
20	Normal Winter	
21	Res Heat	LN 1 x Adj factor (Attachment NUI-FXW-2, Page 4)
22	Res General	LN 2 x Adj factor (Attachment NUI-FXW-2, Page 4)
23	G50 Low Annual-Low Winter	LN 4 x Adj factor (Attachment NUI-FXW-2, Page 4)
24	G40 Low Annual-High Winter	LN 5 x Adj factor (Attachment NUI-FXW-2, Page 4)
25	G51 Med Annual-Low Winter	LN 6 x Adj factor (Attachment NUI-FXW-2, Page 4)
26	G41 Med Annual-High Winter	LN 7 x Adj factor (Attachment NUI-FXW-2, Page 4)
27	G52 High Annual-Low Winter	LN 8 x Adj factor (Attachment NUI-FXW-2, Page 4)
28	G42 High Annual-High Winter	LN 9 x Adj factor (Attachment NUI-FXW-2, Page 4)
29	**Subtotal**	
30	Residential	LN 21 + LN 22
31	SALES HLF CLASSES	LN 23 + LN 25 + LN 27
32	SALES LLF CLASSES	LN 24 + LN 26 + LN 28
33	**Total Firm Sales**	Sum LN 30 : LN 32

Northern Utilities - NEW HAMPSHIRE DIVISION
Sendout by Class - Allocation between Base & Remaining Sendout

34		
35	**DAILY BASE GAS ENTITLEMENT - Therms/day**	
36	Res Heat	13,956
37	Res General	317
38	G50 Low Annual-Low Winter	2,540
39	G40 Low Annual-High Winter	4,935
40	G51 Med Annual-Low Winter	4,266
41	G41 Med Annual-High Winter	4,727
42	G52 High Annual-Low Winter	1,823
43	G42 High Annual-High Winter	1,176
44	**Subtotal**	
45	Residential	14,272
46	SALES HLF CLASSES	8,629
47	SALES LLF CLASSES	10,838
48	**Total Firm Sales**	**33,740**

49	**BASE SENDOUT BY CLASS - Therms**															
50	Days per Month	30	31	31	28	31	30	31	30	31	31	30	31			
51		**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**SUMMER**
52	Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
53	Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
54	G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
55	G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
56	G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
57	G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
58	G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
59	G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
60	**Subtotal**															
61	Residential	428,175	442,447	442,447	399,630	442,447	428,175	442,447	428,175	440,604	442,447	428,175	442,447	5,207,616	2,583,321	2,624,295
62	SALES HLF CLASSES	255,136	267,499	267,499	241,612	267,499	240,679	267,499	258,870	266,385	267,499	258,870	267,499	3,126,547	1,539,925	1,586,623
63	SALES LLF CLASSES	325,149	335,988	335,988	303,473	335,988	325,149	335,988	325,149	334,588	335,988	325,149	335,988	3,954,584	1,961,734	1,992,850
64	**Total Firm Sales**	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
65																

66	**REMAINING SENDOUT BY CLASS - Therms**															
67		**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**SUMMER**
68	Res Heat	1,803,234	2,776,854	3,353,634	2,854,782	2,327,864	1,172,945	345,751	85,565	-	1,802	63,206	540,352	15,325,989	14,289,312	1,036,677
69	Res General	11,118	19,966	25,318	21,250	15,799	5,270	7,845	1,941	-	41	1,434	12,260	122,243	98,721	23,521
70	G50 Low Annual-Low Winter	39,992	89,098	119,261	98,604	65,618	7,031	62,930	15,574	-	328	11,504	98,350	608,289	419,603	188,685
71	G40 Low Annual-High Winter	976,776	1,471,791	1,763,781	1,504,852	1,244,495	657,698	122,258	30,256	-	637	22,350	191,070	7,985,963	7,619,392	366,571
72	G51 Med Annual-Low Winter	91,589	184,910	241,904	201,270	140,543	29,307	105,678	26,153	-	551	19,319	165,158	1,206,381	889,522	316,859
73	G41 Med Annual-High Winter	644,423	989,158	1,193,257	1,016,100	830,279	421,389	117,117	28,984	-	610	21,410	183,035	5,445,763	5,094,606	351,157
74	G52 High Annual-Low Winter	-	17,095	30,325	23,393	6,797	-	45,172	11,179	-	235	8,258	70,596	213,050	77,610	135,440
75	G42 High Annual-High Winter	162,169	248,755	300,012	255,489	208,855	106,157	29,139	7,211	-	152	5,327	45,540	1,368,807	1,281,437	87,370
76	**Subtotal**															
77	Residential	1,814,352	2,796,819	3,378,952	2,876,033	2,343,663	1,178,215	353,595	87,507	-	1,843	64,640	552,613	15,448,231	14,388,034	1,060,198
78	SALES HLF CLASSES	131,581	291,103	391,490	323,266	212,957	36,338	213,780	52,906	-	1,114	39,081	334,104	2,027,720	1,386,735	640,985
79	SALES LLF CLASSES	1,783,367	2,709,705	3,257,050	2,776,440	2,283,628	1,185,244	268,515	66,451	-	1,399	49,087	419,645	14,800,533	13,995,435	805,098
80	**Total Firm Sales**	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797	835,890	206,864	-	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281

Northern Utilities - NEW HAMPSHIRE DIVISION
Sendout by Class - Allocation between Base & Remaining Sendout

34		
35	DAILY BASE GAS ENTITLEMENT - Therms/day	
36	Res Heat	Avg (LN 21 Jul : LN 21 Aug) / 31 days
37	Res General	Avg (LN 22 Jul : LN 22 Aug) / 31 days
38	G50 Low Annual-Low Winter	Avg (LN 23 Jul : LN 23 Aug) / 31 days
39	G40 Low Annual-High Winter	Avg (LN 24 Jul : LN 24 Aug) / 31 days
40	G51 Med Annual-Low Winter	Avg (LN 25 Jul : LN 25 Aug) / 31 days
41	G41 Med Annual-High Winter	Avg (LN 26 Jul : LN 26 Aug) / 31 days
42	G52 High Annual-Low Winter	Avg (LN 27 Jul : LN 27 Aug) / 31 days
43	G42 High Annual-High Winter	Avg (LN 28 Jul : LN 28 Aug) / 31 days
44	**Subtotal**	
45	Residential	LN 36 + LN 37
46	SALES HLF CLASSES	LN 38 + LN 40 + LN 42
47	SALES LLF CLASSES	LN 39 + LN 41 + LN 43
48	**Total Firm Sales**	Sum LN 45 : LN 47
49	**BASE SENDOUT BY CLASS - Therms**	
50	Days per Month	
51		
52	Res Heat	MIN(LN 36 * LN 50, LN 21)
53	Res General	MIN(LN 37 * LN 50, LN 22)
54	G50 Low Annual-Low Winter	MIN(LN 38 * LN 50, LN 23)
55	G40 Low Annual-High Winter	MIN(LN 39 * LN 50, LN 24)
56	G51 Med Annual-Low Winter	MIN(LN 40 * LN 50, LN 25)
57	G41 Med Annual-High Winter	MIN(LN 41 * LN 50, LN 26)
58	G52 High Annual-Low Winter	MIN(LN 42 * LN 50, LN 27)
59	G42 High Annual-High Winter	MIN(LN 43 * LN 50, LN 28)
60	**Subtotal**	
61	Residential	LN 52 + LN 53
62	SALES HLF CLASSES	LN 54 + LN 56 + LN 58
63	SALES LLF CLASSES	LN 55 + LN 57 + LN 59
64	**Total Firm Sales**	Sum LN 61 : LN 63
65		
66	REMAINING SENDOUT BY CLASS - Therms	
67		
68	Res Heat	LN 21 - LN 52
69	Res General	LN 22 - LN 53
70	G50 Low Annual-Low Winter	LN 23 - LN 54
71	G40 Low Annual-High Winter	LN 24 - LN 55
72	G51 Med Annual-Low Winter	LN 25 - LN 56
73	G41 Med Annual-High Winter	LN 26 - LN 57
74	G52 High Annual-Low Winter	LN 27 - LN 58
75	G42 High Annual-High Winter	LN 28 - LN 59
76	**Subtotal**	
77	Residential	LN 68 + LN 69
78	SALES HLF CLASSES	LN 70 + LN 72 + LN 74
79	SALES LLF CLASSES	LN 71 + LN 73 + LN 75
80	**Total Firm Sales**	Sum LN 77 : LN 79

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Demand Costs to Customer Classes

Base Capacity Costs

1	**BASE SENDOUT BY CLASS**	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**SUMMER**
2	**Total Therms**															
3	Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
4	Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
5	G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
6	G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
7	G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
8	G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
9	G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
10	G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
11	Total Firm Sales	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
12																
13	**% of Total**															
14	Res Heat	41.52%	41.36%	41.36%	41.36%	41.36%	42.12%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%			
15	Res General	0.94%	0.94%	0.94%	0.94%	0.94%	0.96%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%			
16	G50 Low Annual-Low Winter	7.56%	7.53%	7.53%	7.53%	7.53%	7.67%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%			
17	G40 Low Annual-High Winter	14.68%	14.63%	14.63%	14.63%	14.63%	14.89%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%			
18	G51 Med Annual-Low Winter	12.69%	12.64%	12.64%	12.64%	12.64%	12.87%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%			
19	G41 Med Annual-High Winter	14.06%	14.01%	14.01%	14.01%	14.01%	14.27%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%			
20	G52 High Annual-Low Winter	5.05%	5.40%	5.40%	5.40%	5.40%	3.67%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%			
21	G42 High Annual-High Winter	3.50%	3.49%	3.49%	3.49%	3.49%	3.55%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%			
22	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			
23																
24	**PIPELINE BASE DEMAND COSTS**	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**SUMMER**
25	TOTAL PIPELINE BASE DEMAND COST	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 134,056	$ 1,608,668	$ 804,334	$ 804,334
26	Res Heat	$ 55,655	$ 55,450	$ 55,450	$ 55,450	$ 55,450	$ 56,464	$ 55,450	$ 55,450	$ 55,450	$ 55,450	$ 55,450	$ 55,450	$ 666,616	$ 333,918	$ 332,698
27	Res General	$ 1,263	$ 1,258	$ 1,258	$ 1,258	$ 1,258	$ 1,281	$ 1,258	$ 1,258	$ 1,258	$ 1,258	$ 1,258	$ 1,258	$ 15,125	$ 7,576	$ 7,549
28	G50 Low Annual-Low Winter	$ 10,130	$ 10,092	$ 10,092	$ 10,092	$ 10,092	$ 10,277	$ 10,092	$ 10,092	$ 10,092	$ 10,092	$ 10,092	$ 10,092	$ 121,331	$ 60,776	$ 60,554
29	G40 Low Annual-High Winter	$ 19,680	$ 19,607	$ 19,607	$ 19,607	$ 19,607	$ 19,966	$ 19,607	$ 19,607	$ 19,607	$ 19,607	$ 19,607	$ 19,607	$ 235,717	$ 118,074	$ 117,643
30	G51 Med Annual-Low Winter	$ 17,011	$ 16,948	$ 16,948	$ 16,948	$ 16,948	$ 17,258	$ 16,948	$ 16,948	$ 16,948	$ 16,948	$ 16,948	$ 16,948	$ 203,751	$ 102,062	$ 101,689
31	G41 Med Annual-High Winter	$ 18,852	$ 18,783	$ 18,783	$ 18,783	$ 18,783	$ 19,126	$ 18,783	$ 18,783	$ 18,783	$ 18,783	$ 18,783	$ 18,783	$ 225,805	$ 113,109	$ 112,696
32	G52 High Annual-Low Winter	$ 6,775	$ 7,244	$ 7,244	$ 7,244	$ 7,244	$ 4,924	$ 7,244	$ 7,244	$ 7,244	$ 7,244	$ 7,244	$ 7,244	$ 84,143	$ 40,676	$ 43,466
33	G42 High Annual-High Winter	$ 4,691	$ 4,673	$ 4,673	$ 4,673	$ 4,673	$ 4,759	$ 4,673	$ 4,673	$ 4,673	$ 4,673	$ 4,673	$ 4,673	$ 56,182	$ 28,142	$ 28,039
34																
35	Residential	$ 56,918	$ 56,708	$ 56,708	$ 56,708	$ 56,708	$ 57,746	$ 56,708	$ 56,708	$ 56,708	$ 56,708	$ 56,708	$ 56,708	$ 681,741	$ 341,494	$ 340,247
36	SALES HLF CLASSES	$ 33,916	$ 34,285	$ 34,285	$ 34,285	$ 34,285	$ 32,459	$ 34,285	$ 34,285	$ 34,285	$ 34,285	$ 34,285	$ 34,285	$ 409,224	$ 203,514	$ 205,710
37	SALES LLF CLASSES	$ 43,222	$ 43,063	$ 43,063	$ 43,063	$ 43,063	$ 43,851	$ 43,063	$ 43,063	$ 43,063	$ 43,063	$ 43,063	$ 43,063	$ 517,703	$ 259,326	$ 258,378
38																

Northern Utilities - NEW HAMPSHII
Allocation of Demand Costs to Cus

Base Capacity Costs

1	**BASE SENDOUT BY CLASS**	
2	**Total Therms**	
3	Res Heat	Attachment NUI-CAK-3, LN 52
4	Res General	Attachment NUI-CAK-3, LN 53
5	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 54
6	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 55
7	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 56
8	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 57
9	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 58
10	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 59
11	Total Firm Sales	Sum LN 3 : LN 10
12		
13	**% of Total**	
14	Res Heat	LN 3 / LN 11
15	Res General	LN 4 / LN 11
16	G50 Low Annual-Low Winter	LN 5 / LN 11
17	G40 Low Annual-High Winter	LN 6 / LN 11
18	G51 Med Annual-Low Winter	LN 7 / LN 11
19	G41 Med Annual-High Winter	LN 8 / LN 11
20	G52 High Annual-Low Winter	LN 9 / LN 11
21	G42 High Annual-High Winter	LN 10 / LN 11
22	Total Firm Sales	LN 11 / LN 11
23		
24	**PIPELINE BASE DEMAND COSTS**	
25	TOTAL PIPELINE BASE DEMAND COST	Attachment NUI-CAK-2, LN 69
26	Res Heat	LN 25 * LN 14
27	Res General	LN 25 * LN 15
28	G50 Low Annual-Low Winter	LN 25 * LN 16
29	G40 Low Annual-High Winter	LN 25 * LN 17
30	G51 Med Annual-Low Winter	LN 25 * LN 18
31	G41 Med Annual-High Winter	LN 25 * LN 19
32	G52 High Annual-Low Winter	LN 25 * LN 20
33	G42 High Annual-High Winter	LN 25 * LN 21
34		
35	Residential	LN 26 + LN 27
36	SALES HLF CLASSES	LN 28 + LN 30 + LN 32
37	SALES LLF CLASSES	LN 29 + LN 31 + LN 33
38		

Remaining Capacity Costs

	Column A Design Day Demand (MMBtu)	Column B Avg Daily Base Use Load (MMBtu)	Column C Remaining Design Day Demand (MMBtu)	Column D % of Total Remaining Design Day Demand
Res Heat	23,681	1,396	22,285	48.26%
Res General	183	32	151	0.33%
G50 Low Annual-Low Winter	697	254	443	0.96%
G40 Low Annual-High Winter	12,594	493	12,101	26.21%
G51 Med Annual-Low Winter	1,600	427	1,173	2.54%
G41 Med Annual-High Winter	8,418	473	7,946	17.21%
G52 High Annual-Low Winter	338	182	156	0.34%
G42 High Annual-High Winter	2,037	118	1,919	4.16%
TOTAL	49,548	3,374	46,174	100.00%

REMAINING PIPELINE DEMAND

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
NH DIVISION TOTAL - REMAINING PIPELI	$ 508,235	$ 1,001,301	$ 1,943,718	$ 1,074,869	$ 737,672	$ 288,576	$ 82,507	$ 17,552	$ -	$ 327	$ 12,591	$ 138,029	$ 5,805,376	$ 5,554,370	$ 251,006
Res Heat	$ 245,289	$ 483,257	$ 938,094	$ 518,763	$ 356,022	$ 139,275	$ 39,820	$ 8,471	$ -	$ 158	$ 6,077	$ 66,617	$ 2,801,843	$ 2,680,700	$ 121,143
Res General	$ 1,667	$ 3,285	$ 6,376	$ 3,526	$ 2,420	$ 947	$ 271	$ 58	$ -	$ 1	$ 41	$ 453	$ 19,043	$ 18,220	$ 823
G50 Low Annual-Low Winter	$ 4,876	$ 9,607	$ 18,648	$ 10,312	$ 7,077	$ 2,769	$ 792	$ 168	$ -	$ 3	$ 121	$ 1,324	$ 55,697	$ 53,289	$ 2,408
G40 Low Annual-High Winter	$ 133,193	$ 262,410	$ 509,389	$ 281,690	$ 193,321	$ 75,627	$ 21,623	$ 4,600	$ -	$ 86	$ 3,300	$ 36,173	$ 1,521,410	$ 1,455,630	$ 65,781
G51 Med Annual-Low Winter	$ 12,914	$ 25,442	$ 49,388	$ 27,311	$ 18,743	$ 7,332	$ 2,096	$ 446	$ -	$ 8	$ 320	$ 3,507	$ 147,508	$ 141,130	$ 6,378
G41 Med Annual-High Winter	$ 87,456	$ 172,301	$ 334,470	$ 184,961	$ 126,937	$ 49,657	$ 14,198	$ 3,020	$ -	$ 56	$ 2,167	$ 23,752	$ 998,975	$ 955,783	$ 43,192
G52 High Annual-Low Winter	$ 1,716	$ 3,381	$ 6,564	$ 3,630	$ 2,491	$ 974	$ 279	$ 59	$ -	$ 1	$ 43	$ 466	$ 19,604	$ 18,756	$ 848
G42 High Annual-High Winter	$ 21,124	$ 41,618	$ 80,789	$ 44,676	$ 30,661	$ 11,994	$ 3,429	$ 730	$ -	$ 14	$ 523	$ 5,737	$ 241,296	$ 230,863	$ 10,433
TOTAL	$ 508,235	$ 1,001,301	$ 1,943,718	$ 1,074,869	$ 737,672	$ 288,576	$ 82,507	$ 17,552	$ -	$ 327	$ 12,591	$ 138,029	$ 5,805,376	$ 5,554,370	$ 251,006
Residential	$ 246,956	$ 486,541	$ 944,470	$ 522,289	$ 358,442	$ 140,222	$ 40,091	$ 8,529	$ -	$ 159	$ 6,118	$ 67,069	$ 2,820,886	$ 2,698,920	$ 121,966
SALES HLF CLASSES	$ 19,506	$ 38,430	$ 74,599	$ 41,253	$ 28,312	$ 11,075	$ 3,167	$ 674	$ -	$ 13	$ 483	$ 5,298	$ 222,808	$ 213,175	$ 9,634
SALES LLF CLASSES	$ 241,773	$ 476,330	$ 924,648	$ 511,327	$ 350,919	$ 137,279	$ 39,249	$ 8,350	$ -	$ 156	$ 5,990	$ 65,662	$ 2,761,682	$ 2,642,275	$ 119,406

STORAGE AND ON-SYSTEM PEAKING DEMAND

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
NH DIVISION TOTAL - PEAKING & STORA	$ 804,909	$ 1,585,795	$ 3,078,334	$ 1,702,309	$ 1,168,277	$ 457,028	$ 130,669	$ 27,798	$ -	$ 518	$ 19,940	$ 218,601	$ 9,194,179	$ 8,796,652	$ 397,527
Res Heat	$ 388,473	$ 765,351	$ 1,485,693	$ 821,583	$ 563,845	$ 220,575	$ 63,065	$ 13,416	$ -	$ 250	$ 9,624	$ 105,503	$ 4,437,377	$ 4,245,519	$ 191,858
Res General	$ 2,640	$ 5,202	$ 10,098	$ 5,584	$ 3,832	$ 1,499	$ 429	$ 91	$ -	$ 2	$ 65	$ 717	$ 30,160	$ 28,856	$ 1,304
G50 Low Annual-Low Winter	$ 7,722	$ 15,214	$ 29,534	$ 16,332	$ 11,209	$ 4,385	$ 1,254	$ 267	$ -	$ 5	$ 191	$ 2,097	$ 88,209	$ 84,395	$ 3,814
G40 Low Annual-High Winter	$ 210,942	$ 415,588	$ 806,737	$ 446,123	$ 306,170	$ 119,773	$ 34,244	$ 7,285	$ -	$ 136	$ 5,226	$ 57,289	$ 2,409,511	$ 2,305,332	$ 104,180
G51 Med Annual-Low Winter	$ 20,452	$ 40,293	$ 78,217	$ 43,254	$ 29,685	$ 11,613	$ 3,320	$ 706	$ -	$ 13	$ 507	$ 5,554	$ 233,613	$ 223,513	$ 10,101
G41 Med Annual-High Winter	$ 138,507	$ 272,880	$ 529,712	$ 292,929	$ 201,034	$ 78,644	$ 22,485	$ 4,783	$ -	$ 89	$ 3,431	$ 37,616	$ 1,582,112	$ 1,513,707	$ 68,405
G52 High Annual-Low Winter	$ 2,718	$ 5,355	$ 10,395	$ 5,748	$ 3,945	$ 1,543	$ 441	$ 94	$ -	$ 2	$ 67	$ 738	$ 31,047	$ 29,704	$ 1,342
G42 High Annual-High Winter	$ 33,455	$ 65,912	$ 127,949	$ 70,755	$ 48,559	$ 18,996	$ 5,431	$ 1,155	$ -	$ 22	$ 829	$ 9,086	$ 382,149	$ 365,627	$ 16,523
TOTAL	$ 804,909	$ 1,585,795	$ 3,078,334	$ 1,702,309	$ 1,168,277	$ 457,028	$ 130,669	$ 27,798	$ -	$ 518	$ 19,940	$ 218,601	$ 9,194,179	$ 8,796,652	$ 397,527
Residential	$ 391,113	$ 770,552	$ 1,495,791	$ 827,168	$ 567,677	$ 222,074	$ 63,493	$ 13,507	$ -	$ 252	$ 9,689	$ 106,220	$ 4,467,537	$ 4,274,375	$ 193,162
SALES HLF CLASSES	$ 30,892	$ 60,862	$ 118,145	$ 65,334	$ 44,838	$ 17,541	$ 5,015	$ 1,067	$ -	$ 20	$ 765	$ 8,390	$ 352,869	$ 337,613	$ 15,257
SALES LLF CLASSES	$ 382,904	$ 754,380	$ 1,464,398	$ 809,807	$ 555,763	$ 217,413	$ 62,161	$ 13,224	$ -	$ 246	$ 9,486	$ 103,991	$ 4,373,773	$ 4,184,665	$ 189,108

Off-SYSTEM PEAKING DEMAND & OUTAGE REPLACEMENT

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
NH DIVISION - OFF-SYSTEM PEAKING	$ 349,433	$ 663,430	$ 1,303,698	$ 712,091	$ 515,142	$ 217,703	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,761,497	$ 3,761,497	$ -
Res Heat	$ 168,647	$ 320,190	$ 629,202	$ 343,676	$ 248,622	$ 105,070	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,815,407	$ 1,815,407	$ -
Res General	$ 1,146	$ 2,176	$ 4,277	$ 2,336	$ 1,690	$ 714	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,339	$ 12,339	$ -
G50 Low Annual-Low Winter	$ 3,352	$ 6,365	$ 12,508	$ 6,832	$ 4,942	$ 2,089	$ -	$ -	$ -	$ -	$ -	$ -	$ 36,088	$ 36,088	$ -
G40 Low Annual-High Winter	$ 91,576	$ 173,865	$ 341,659	$ 186,617	$ 135,003	$ 57,053	$ -	$ -	$ -	$ -	$ -	$ -	$ 985,773	$ 985,773	$ -
G51 Med Annual-Low Winter	$ 8,879	$ 16,857	$ 33,125	$ 18,093	$ 13,089	$ 5,532	$ -	$ -	$ -	$ -	$ -	$ -	$ 95,575	$ 95,575	$ -
G41 Med Annual-High Winter	$ 60,130	$ 114,161	$ 224,337	$ 122,535	$ 88,644	$ 37,462	$ -	$ -	$ -	$ -	$ -	$ -	$ 647,269	$ 647,269	$ -
G52 High Annual-Low Winter	$ 1,180	$ 2,240	$ 4,402	$ 2,405	$ 1,740	$ 735	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,702	$ 12,702	$ -
G42 High Annual-High Winter	$ 14,524	$ 27,575	$ 54,187	$ 29,598	$ 21,411	$ 9,049	$ -	$ -	$ -	$ -	$ -	$ -	$ 156,344	$ 156,344	$ -
TOTAL	$ 349,433	$ 663,430	$ 1,303,698	$ 712,091	$ 515,142	$ 217,703	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,761,497	$ 3,761,497	$ -
Residential	$ 169,793	$ 322,367	$ 633,479	$ 346,012	$ 250,312	$ 105,784	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,827,746	$ 1,827,746	$ -
SALES HLF CLASSES	$ 14,557	$ 27,638	$ 54,312	$ 29,666	$ 21,461	$ 9,069	$ -	$ -	$ -	$ -	$ -	$ -	$ 156,704	$ 156,704	$ -
SALES LLF CLASSES	$ 334,876	$ 635,791	$ 1,249,386	$ 682,426	$ 493,681	$ 208,633	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,604,793	$ 3,604,793	$ -

Remaining Capacity Costs

39		
40	Res Heat	Company Analysis
41	Res General	Company Analysis
42	G50 Low Annual-Low Winter	Company Analysis
43	G40 Low Annual-High Winter	Company Analysis
44	G51 Med Annual-Low Winter	Company Analysis
45	G41 Med Annual-High Winter	Company Analysis
46	G52 High Annual-Low Winter	Company Analysis
47	G42 High Annual-High Winter	Company Analysis
48	TOTAL	Sum LN 40 : LN 47
49		
50	**REMAINING PIPELINE DEMAND**	
51		
52	NH DIVISION TOTAL - REMAINING PIPELI	Attachment NUI-CAK-2, LN 70
53		
54	Res Heat	LN 40 Col D * LN 52
55	Res General	LN 41 Col D * LN 52
56	G50 Low Annual-Low Winter	LN 42 Col D * LN 52
57	G40 Low Annual-High Winter	LN 43 Col D * LN 52
58	G51 Med Annual-Low Winter	LN 44 Col D * LN 52
59	G41 Med Annual-High Winter	LN 45 Col D * LN 52
60	G52 High Annual-Low Winter	LN 46 Col D * LN 52
61	G42 High Annual-High Winter	LN 47 Col D * LN 52
62	TOTAL	Sum LN 54 : LN 61
63		
64	Residential	LN 54 + LN 55
65	SALES HLF CLASSES	LN 56 + LN 58 + LN 60
66	SALES LLF CLASSES	LN 57 + LN 59 + LN 61
67		
68	**STORAGE AND ON-SYSTEM PEAKING DE**	**EMAND**
69		
70	NH DIVISION TOTAL - PEAKING & STORA	Attachment NUI-CAK-2, LN 73
71		
72	Res Heat	LN 40 Col D * LN 70
73	Res General	LN 41 Col D * LN 70
74	G50 Low Annual-Low Winter	LN 42 Col D * LN 70
75	G40 Low Annual-High Winter	LN 43 Col D * LN 70
76	G51 Med Annual-Low Winter	LN 44 Col D * LN 70
77	G41 Med Annual-High Winter	LN 45 Col D * LN 70
78	G52 High Annual-Low Winter	LN 46 Col D * LN 70
79	G42 High Annual-High Winter	LN 47 Col D * LN 70
80	TOTAL	Sum LN 72 : LN 79
81		
82	Residential	LN 72 + LN 73
83	SALES HLF CLASSES	LN 74 + LN 76 + LN 78
84	SALES LLF CLASSES	LN 75 + LN 77 + LN 79
85		
86	**Off-SYSTEM PEAKING DEMAND & OUTA**	
87		
88	NH DIVISION - OFF-SYSTEM PEAKING	Attachment NUI-CAK-2, LN 74
89		
90	Res Heat	LN 40 Col D * LN 88
91	Res General	LN 41 Col D * LN 88
92	G50 Low Annual-Low Winter	LN 42 Col D * LN 88
93	G40 Low Annual-High Winter	LN 43 Col D * LN 88
94	G51 Med Annual-Low Winter	LN 44 Col D * LN 88
95	G41 Med Annual-High Winter	LN 45 Col D * LN 88
96	G52 High Annual-Low Winter	LN 46 Col D * LN 88
97	G42 High Annual-High Winter	LN 47 Col D * LN 88
98	TOTAL	Sum LN 90 : LN 97
99		
100	Residential	LN 90 + LN 91
101	SALES HLF CLASSES	LN 92 + LN 94 + LN 96
102	SALES LLF CLASSES	LN 93 + LN 95 + LN 97
103		
104		

CAPACITY RELEASE MARGINS & ASSET MANAGEMENT CREDIT BY CLASS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
NH DIVISION - MONTHLY CAP. RELEASE	$ (812,096)	$ (1,540,035)	$ (2,931,376)	$ (1,648,649)	$ (1,150,827)	$ (487,802)	$ -	$ -	$ -	$ -	$ -	$ -	$ (8,570,786)	$ (8,570,786)	$ -
Res Heat	$ (391,941)	$ (743,266)	$ (1,414,767)	$ (795,686)	$ (555,422)	$ (235,427)	$ -	$ -	$ -	$ -	$ -	$ -	$ (4,136,509)	$ (4,136,509)	$ -
Res General	$ (2,664)	$ (5,052)	$ (9,616)	$ (5,408)	$ (3,775)	$ (1,600)	$ -	$ -	$ -	$ -	$ -	$ -	$ (28,115)	$ (28,115)	$ -
G50 Low Annual-Low Winter	$ (7,791)	$ (14,775)	$ (28,124)	$ (15,817)	$ (11,041)	$ (4,680)	$ -	$ -	$ -	$ -	$ -	$ -	$ (82,228)	$ (82,228)	$ -
G40 Low Annual-High Winter	$ (212,825)	$ (403,596)	$ (768,223)	$ (432,060)	$ (301,596)	$ (127,838)	$ -	$ -	$ -	$ -	$ -	$ -	$ (2,246,139)	$ (2,246,139)	$ -
G51 Med Annual-Low Winter	$ (20,634)	$ (39,130)	$ (74,483)	$ (41,890)	$ (29,241)	$ (12,394)	$ -	$ -	$ -	$ -	$ -	$ -	$ (217,774)	$ (217,774)	$ -
G41 Med Annual-High Winter	$ (139,744)	$ (265,006)	$ (504,424)	$ (283,696)	$ (198,031)	$ (83,940)	$ -	$ -	$ -	$ -	$ -	$ -	$ (1,474,840)	$ (1,474,840)	$ -
G52 High Annual-Low Winter	$ (2,742)	$ (5,200)	$ (9,899)	$ (5,567)	$ (3,886)	$ (1,647)	$ -	$ -	$ -	$ -	$ -	$ -	$ (28,942)	$ (28,942)	$ -
G42 High Annual-High Winter	$ (33,754)	$ (64,010)	$ (121,841)	$ (68,525)	$ (47,833)	$ (20,275)	$ -	$ -	$ -	$ -	$ -	$ -	$ (356,239)	$ (356,239)	$ -
TOTAL	$ (812,096)	$ (1,540,035)	$ (2,931,376)	$ (1,648,649)	$ (1,150,827)	$ (487,802)	$ -	$ -	$ -	$ -	$ -	$ -	$ (8,570,786)	$ (8,570,786)	$ -
Residential	$ (394,605)	$ (748,318)	$ (1,424,383)	$ (801,094)	$ (559,197)	$ (237,027)	$ -	$ -	$ -	$ -	$ -	$ -	$ (4,164,624)	$ (4,164,624)	$ -
SALES HLF CLASSES	$ (31,168)	$ (59,106)	$ (112,505)	$ (63,275)	$ (44,168)	$ (18,722)	$ -	$ -	$ -	$ -	$ -	$ -	$ (328,944)	$ (328,944)	$ -
SALES LLF CLASSES	$ (386,323)	$ (732,612)	$ (1,394,488)	$ (784,281)	$ (547,461)	$ (232,053)	$ -	$ -	$ -	$ -	$ -	$ -	$ (4,077,218)	$ (4,077,218)	$ -

MISCELLANEOUS CREDITS BY CLASS (Includes Re-entry Rate & Conversion Rate Revenues)

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
NH DIVISION - MISCELLANEOUS CREDIT	$ (474)	$ (898)	$ (1,710)	$ (962)	$ (671)	$ (285)	$ -	$ -	$ -	$ -	$ -	$ -	$ (5,000)	$ (5,000)	$ -
Res Heat	$ (229)	$ (434)	$ (825)	$ (464)	$ (324)	$ (137)	$ -	$ -	$ -	$ -	$ -	$ -	$ (2,413)	$ (2,413)	$ -
Res General	$ (2)	$ (3)	$ (6)	$ (3)	$ (2)	$ (1)	$ -	$ -	$ -	$ -	$ -	$ -	$ (16)	$ (16)	$ -
G50 Low Annual-Low Winter	$ (5)	$ (9)	$ (16)	$ (9)	$ (6)	$ (3)	$ -	$ -	$ -	$ -	$ -	$ -	$ (48)	$ (48)	$ -
G40 Low Annual-High Winter	$ (124)	$ (235)	$ (448)	$ (252)	$ (176)	$ (75)	$ -	$ -	$ -	$ -	$ -	$ -	$ (1,310)	$ (1,310)	$ -
G51 Med Annual-Low Winter	$ (12)	$ (23)	$ (43)	$ (24)	$ (17)	$ (7)	$ -	$ -	$ -	$ -	$ -	$ -	$ (127)	$ (127)	$ -
G41 Med Annual-High Winter	$ (82)	$ (155)	$ (294)	$ (166)	$ (116)	$ (49)	$ -	$ -	$ -	$ -	$ -	$ -	$ (860)	$ (860)	$ -
G52 High Annual-Low Winter	$ (2)	$ (3)	$ (6)	$ (3)	$ (2)	$ (1)	$ -	$ -	$ -	$ -	$ -	$ -	$ (17)	$ (17)	$ -
G42 High Annual-High Winter	$ (20)	$ (37)	$ (71)	$ (40)	$ (28)	$ (12)	$ -	$ -	$ -	$ -	$ -	$ -	$ (208)	$ (208)	$ -
TOTAL	$ (474)	$ (898)	$ (1,710)	$ (962)	$ (671)	$ (285)	$ -	$ -	$ -	$ -	$ -	$ -	$ (5,000)	$ (5,000)	$ -
Residential	$ (230)	$ (437)	$ (831)	$ (467)	$ (326)	$ (138)	$ -	$ -	$ -	$ -	$ -	$ -	$ (2,430)	$ (2,430)	$ -
SALES HLF CLASSES	$ (20)	$ (37)	$ (71)	$ (40)	$ (28)	$ (12)	$ -	$ -	$ -	$ -	$ -	$ -	$ (208)	$ (208)	$ -
SALES LLF CLASSES	$ (454)	$ (861)	$ (1,639)	$ (922)	$ (643)	$ (273)	$ -	$ -	$ -	$ -	$ -	$ -	$ (4,792)	$ (4,792)	$ -

TOTAL NON-BASE CAPACITY COSTS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
Res Heat	$ 410,238	$ 825,098	$ 1,637,398	$ 887,873	$ 612,742	$ 229,355	$ 102,885	$ 21,888	$ -	$ 408	$ 15,700	$ 172,120	$ 4,915,705	$ 4,602,704	$ 313,001
Res General	$ 2,788	$ 5,608	$ 11,129	$ 6,035	$ 4,165	$ 1,559	$ 699	$ 149	$ -	$ 3	$ 107	$ 1,170	$ 33,411	$ 31,283	$ 2,127
G50 Low Annual-Low Winter	$ 8,155	$ 16,402	$ 32,549	$ 17,650	$ 12,181	$ 4,559	$ 2,045	$ 435	$ -	$ 8	$ 312	$ 3,422	$ 97,718	$ 91,496	$ 6,222
G40 Low Annual-High Winter	$ 222,761	$ 448,031	$ 889,113	$ 482,118	$ 332,721	$ 124,540	$ 55,867	$ 11,885	$ -	$ 222	$ 8,525	$ 93,462	$ 2,669,245	$ 2,499,284	$ 169,960
G51 Med Annual-Low Winter	$ 21,598	$ 43,439	$ 86,204	$ 46,744	$ 32,259	$ 12,075	$ 5,417	$ 1,152	$ -	$ 21	$ 827	$ 9,062	$ 258,796	$ 242,317	$ 16,478
G41 Med Annual-High Winter	$ 146,267	$ 294,182	$ 583,801	$ 316,564	$ 218,468	$ 81,775	$ 36,683	$ 7,804	$ -	$ 145	$ 5,598	$ 61,368	$ 1,752,656	$ 1,641,058	$ 111,598
G52 High Annual-Low Winter	$ 2,870	$ 5,773	$ 11,456	$ 6,212	$ 4,287	$ 1,605	$ 720	$ 153	$ -	$ 3	$ 110	$ 1,204	$ 34,394	$ 32,204	$ 2,190
G42 High Annual-High Winter	$ 35,330	$ 71,058	$ 141,014	$ 76,464	$ 52,770	$ 19,752	$ 8,861	$ 1,885	$ -	$ 35	$ 1,352	$ 14,823	$ 423,343	$ 396,388	$ 26,956
TOTAL	$ 850,007	$ 1,709,592	$ 3,392,664	$ 1,839,659	$ 1,269,593	$ 475,219	$ 213,176	$ 45,351	$ -	$ 845	$ 32,531	$ 356,630	$ 10,185,267	$ 9,536,734	$ 648,533
Residential	$ 413,027	$ 830,706	$ 1,648,527	$ 893,907	$ 616,907	$ 230,914	$ 103,584	$ 22,036	$ -	$ 411	$ 15,807	$ 173,290	$ 4,949,115	$ 4,633,987	$ 315,128
SALES HLF CLASSES	$ 32,623	$ 65,614	$ 130,209	$ 70,605	$ 48,727	$ 18,239	$ 8,182	$ 1,741	$ -	$ 32	$ 1,249	$ 13,687	$ 390,907	$ 366,017	$ 24,890
SALES LLF CLASSES	$ 404,358	$ 813,272	$ 1,613,928	$ 875,146	$ 603,960	$ 226,067	$ 101,410	$ 21,574	$ -	$ 402	$ 15,475	$ 169,653	$ 4,845,244	$ 4,536,730	$ 308,514

TOTAL CAPACITY COSTS

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	SUMMER
Res Heat	$ 465,893	$ 880,548	$ 1,692,847	$ 943,322	$ 668,192	$ 285,819	$ 158,334	$ 77,337	$ 55,450	$ 55,858	$ 71,150	$ 227,570	$ 5,582,321	$ 4,936,622	$ 645,699
Res General	$ 4,051	$ 6,866	$ 12,387	$ 7,293	$ 5,423	$ 2,840	$ 1,957	$ 1,407	$ 1,258	$ 1,261	$ 1,365	$ 2,428	$ 48,536	$ 38,860	$ 9,676
G50 Low Annual-Low Winter	$ 18,285	$ 26,494	$ 42,642	$ 27,742	$ 22,273	$ 14,836	$ 12,138	$ 10,527	$ 10,092	$ 10,100	$ 10,404	$ 13,514	$ 219,049	$ 152,272	$ 66,776
G40 Low Annual-High Winter	$ 242,441	$ 467,638	$ 908,720	$ 501,725	$ 352,328	$ 144,506	$ 75,474	$ 31,492	$ 19,607	$ 19,829	$ 28,132	$ 113,069	$ 2,904,962	$ 2,617,358	$ 287,603
G51 Med Annual-Low Winter	$ 38,609	$ 60,387	$ 103,152	$ 63,692	$ 49,207	$ 29,333	$ 22,365	$ 18,100	$ 16,948	$ 16,970	$ 17,775	$ 26,010	$ 462,546	$ 344,379	$ 118,167
G41 Med Annual-High Winter	$ 165,119	$ 312,965	$ 602,584	$ 335,347	$ 237,251	$ 100,901	$ 55,465	$ 26,586	$ 18,783	$ 18,928	$ 24,381	$ 80,151	$ 1,978,461	$ 1,754,167	$ 224,294
G52 High Annual-Low Winter	$ 9,645	$ 13,017	$ 18,701	$ 13,457	$ 11,532	$ 6,528	$ 7,964	$ 7,398	$ 7,244	$ 7,247	$ 7,354	$ 8,449	$ 118,536	$ 72,880	$ 45,656
G42 High Annual-High Winter	$ 40,020	$ 75,731	$ 145,687	$ 81,137	$ 57,443	$ 24,511	$ 13,534	$ 6,558	$ 4,673	$ 4,708	$ 6,025	$ 19,496	$ 479,525	$ 424,530	$ 54,995
TOTAL	$ 984,063	$ 1,843,647	$ 3,526,719	$ 1,973,714	$ 1,403,649	$ 609,275	$ 347,232	$ 179,406	$ 134,056	$ 134,901	$ 166,587	$ 490,686	$ 11,793,935	$ 10,341,068	$ 1,452,867
Residential	$ 469,944	$ 887,414	$ 1,705,234	$ 950,615	$ 673,615	$ 288,659	$ 160,292	$ 78,744	$ 56,708	$ 57,119	$ 72,515	$ 229,998	$ 5,630,856	$ 4,975,482	$ 655,375
SALES HLF CLASSES	$ 66,539	$ 99,898	$ 164,494	$ 104,890	$ 83,011	$ 50,698	$ 42,467	$ 36,025	$ 34,285	$ 34,317	$ 35,533	$ 47,972	$ 800,131	$ 569,531	$ 230,600
SALES LLF CLASSES	$ 447,580	$ 856,335	$ 1,656,991	$ 918,209	$ 647,023	$ 269,918	$ 144,473	$ 64,637	$ 43,063	$ 43,465	$ 58,538	$ 212,716	$ 5,362,948	$ 4,796,055	$ 566,892
% ALLOCATION BETWEEN SALES HLF AND LLF															
SALES HLF CLASSES														10.61%	28.92%
SALES LLF CLASSES														89.39%	71.08%

105	**CAPACITY RELEASE MARGINS & ASSET MANAGEMENT CREDIT BY CLASS**	
106		
107	NH DIVISION - MONTHLY CAP. RELEASE	Attachment NUI-CAK-2, LN 77
108		
109	Res Heat	LN 40 Col D * LN 107
110	Res General	LN 41 Col D * LN 107
111	G50 Low Annual-Low Winter	LN 42 Col D * LN 107
112	G40 Low Annual-High Winter	LN 43 Col D * LN 107
113	G51 Med Annual-Low Winter	LN 44 Col D * LN 107
114	G41 Med Annual-High Winter	LN 45 Col D * LN 107
115	G52 High Annual-Low Winter	LN 46 Col D * LN 107
116	G42 High Annual-High Winter	LN 47 Col D * LN 107
117	TOTAL	Sum LN 109 : LN 116
118		
119	Residential	LN 109 + LN 110
120	SALES HLF CLASSES	LN 111 + LN 113 + LN 115
121	SALES LLF CLASSES	LN 112 + LN 114 + LN 116
122		
123	**MISCELLANEOUS CREDITS BY CLASS (I**	**Includes Re-entry Rate & Conversion Ra**
124		
125	NH DIVISION - MISCELLANEOUS CREDIT:	Attachment NUI-CAK-2, LN 78 + LN 79
126		
127	Res Heat	LN 40 Col D * LN 125
128	Res General	LN 41 Col D * LN 125
129	G50 Low Annual-Low Winter	LN 42 Col D * LN 125
130	G40 Low Annual-High Winter	LN 43 Col D * LN 125
131	G51 Med Annual-Low Winter	LN 44 Col D * LN 125
132	G41 Med Annual-High Winter	LN 45 Col D * LN 125
133	G52 High Annual-Low Winter	LN 46 Col D * LN 125
134	G42 High Annual-High Winter	LN 47 Col D * LN 125
135	TOTAL	Sum LN 127 : LN 134
136		
137	Residential	LN 127 + LN 128
138	SALES HLF CLASSES	LN 129 + LN 131 + LN 133
139	SALES LLF CLASSES	LN 130 + LN 132 + LN 134
140		
141	**TOTAL NON-BASE CAPACITY COSTS**	
142		
143	Res Heat	Sum of Ln 54, 72, 90, 109, 127
144	Res General	Sum of Ln 55, 73, 91, 110, 128
145	G50 Low Annual-Low Winter	Sum of Ln 56, 74, 92, 111, 129
146	G40 Low Annual-High Winter	Sum of Ln 57, 75, 93, 112, 130
147	G51 Med Annual-Low Winter	Sum of Ln 58, 76, 94, 113, 131
148	G41 Med Annual-High Winter	Sum of Ln 59, 77, 95, 114, 132
149	G52 High Annual-Low Winter	Sum of Ln 60, 78, 96, 115, 133
150	G42 High Annual-High Winter	Sum of Ln 61, 79, 97, 116, 134
151	TOTAL	Sum LN 143 : LN 150
152		
153	Residential	LN 143 + LN 144
154	SALES HLF CLASSES	LN 145 + LN 147 + LN 149
155	SALES LLF CLASSES	LN 146 + LN 148 + LN 150
156		
157	**TOTAL CAPACITY COSTS**	
158		
159	Res Heat	LN 143 + LN 26
160	Res General	LN 144 + LN 27
161	G50 Low Annual-Low Winter	LN 145 + LN 28
162	G40 Low Annual-High Winter	LN 146 + LN 29
163	G51 Med Annual-Low Winter	LN 147 + LN 30
164	G41 Med Annual-High Winter	LN 148 + LN 31
165	G52 High Annual-Low Winter	LN 149 + LN 32
166	G42 High Annual-High Winter	LN 150 + LN 33
167	TOTAL	Sum LN 159 : LN 166
168		
169	Residential	LN 159 + LN 160
170	SALES HLF CLASSES	LN 161 + LN 163 + LN 165
171	SALES LLF CLASSES	LN 162 + LN 164 + LN 166
172		
173	% ALLOCATION BETWEEN SALES HLF AI	
174	SALES HLF CLASSES	LN 170 / (LN170 + LN 171)
175	SALES LLF CLASSES	LN 171 / (LN 170 + LN 171)

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
1	**Supply Volumes - MMBtu**															
2	Total Pipeline	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	8,759,207	6,035,977	2,723,230
3	Total Storage	682,353	639,699	746,763	717,662	561,116	0	0	0	0	0	0	0	3,347,592	3,347,592	0
4	Total Peaking	1,800	12,315	211,976	24,770	1,860	1,800	1,860	1,800	1,860	1,860	1,800	1,860	265,562	254,522	11,040
5	Total Off-system Sales													0	0	
6	Subtotal	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	12,372,361	9,638,091	2,734,270
7	Less Interruptible - Maine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Less Interruptible - New Hampshire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Total Firm Supply	1,261,202	1,783,041	2,114,463	1,841,310	1,606,966	1,031,109	577,904	395,975	357,441	358,768	384,628	659,554	12,372,361	9,638,091	2,734,270
10	Total Firm Pipeline Sendout	577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694	8,759,207	6,035,977	2,723,230
11	**Variable Costs**															
12	Base Pipeline Costs Modeled in Sendout™	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
13	NYMEX Price Used for Forecast	$7.901	$8.035	$8.115	$7.818	$6.705	$5.352	$5.219	$5.278	$5.340	$5.357	$5.345	$5.411			
14	<u>NYMEX Price Used for Update</u>	$7.901	$8.035	$8.115	$7.818	$6.705	$5.352	$5.219	$5.278	$5.340	$5.357	$5.345	$5.411			
15	Increase/(Decrease) NYMEX Price	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00			
16	Increase/(Decrease) in Pipeline Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -		$ -	
17	Total Updated Pipeline Costs	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
18															$ -	
19	Total Pipeline	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
20	Total Storage	$ 5,057,363	$ 4,741,424	$ 5,542,789	$ 5,343,552	$ 4,177,347	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,862,476	$ 24,862,476	$ -
21	Total Peaking	$ 33,715	$ 539,811	$ 3,908,905	$ 996,579	$ 104,433	$ 95,662	$ 88,926	$ 85,409	$ 88,256	$ 88,256	$ 83,732	$ 86,193	$ 6,199,876	$ 5,679,104	$ 520,772
22	Total Off-sytem Sales	$ -				$ -								$ -	$ -	
23																
24	Subtotal	$ 9,744,079	$ 15,852,425	$ 22,497,538	$ 18,606,170	$ 12,352,055	$ 5,494,546	$ 2,887,609	$ 1,946,241	$ 1,804,247	$ 1,798,761	$ 1,798,542	$ 3,271,868	$ 98,054,081	$ 84,546,814	$ 13,507,267
25																
26	Interruptible Cost Estimate															
27	Variable Pipeline Costs	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
28	Average Supply Cost ($/MMBtu)	$ 8.063	$ 9.347	$ 11.288	$ 11.162	$ 7.730	$ 5.245	$ 4.858	$ 4.721	$ 4.826	$ 4.793	$ 4.479	$ 4.844			
29	Interruptible Cost - Maine	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
30	Interruptible Cost - New Hampshire	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
31																
32	Total Pipeline	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
33	Total Storage	$ 5,057,363	$ 4,741,424	$ 5,542,789	$ 5,343,552	$ 4,177,347	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,862,476	$ 24,862,476	$ -
34	Total Peaking	$ 33,715	$ 539,811	$ 3,908,905	$ 996,579	$ 104,433	$ 95,662	$ 88,926	$ 85,409	$ 88,256	$ 88,256	$ 83,732	$ 86,193	$ 6,199,876	$ 5,679,104	$ 520,772
35	Off-system Sales	$ -	$ -	$ -	$ -	$ -	$ -							$ -	$ -	
36	Total Firm Sales Variable Costs	$ 9,744,079	$ 15,852,425	$ 22,497,538	$ 18,606,170	$ 12,352,055	$ 5,494,546	$ 2,887,609	$ 1,946,241	$ 1,804,247	$ 1,798,761	$ 1,798,542	$ 3,271,868	$ 98,054,081	$ 84,546,814	$ 13,507,267

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

1	**Supply Volumes - MMBtu**	
2	Total Pipeline	Attachment NUI-FXW-8, Page 2
3	Total Storage	Attachment NUI-FXW-8, Page 2
4	Total Peaking	Attachment NUI-FXW-8, Page 2
5	Total Off-system Sales	NA
6	Subtotal	SUM LN 2: LN 6
7	Less Interruptible - Maine	Company Analysis
8	Less Interruptible - New Hampshire	Company Analysis
9	Total Firm Supply	LN 7 - LN 8 - LN 9
10	Total Firm Pipeline Sendout	LN 2 + LN 3- LN 8 - LN 9
11	**Variable Costs**	
12	Pipeline Costs Modeled in Sendout™	Attachment NUI-FXW-8, Page 1
13	NYMEX Price Used for Forecast	Attachment NUI-FXW10, Page 1
14	NYMEX Price Used for Update	Attachment NUI-FXW10, Page 1
15	Increase/(Decrease) NYMEX Price	LN 13 - LN 14
16	Increase/(Decrease) in Pipeline Costs	LN 2 * LN 15
17	Total Updated Pipeline Costs	LN 12 + LN 16
18		
19	Total Pipeline Baseload	LN 17
20	Total Storage	Attachment NUI-FXW-8, Page 1
21	Total Peaking	Attachment NUI-FXW-8, Page 1
22	Total Off-sytem Sales	NA
23		
24	Subtotal	Sum LN 19 : LN 22
25		
26	Interruptible Cost Estimate	Company Analysis
27	Variable Pipeline Costs Excld Hedges	LN 17
28	Average Supply Cost ($/MMBtu)	LN 27 / LN 2
29	Interruptible Cost - Maine	LN 28 * LN 7
30	Interruptible Cost - New Hampshire	LN 28 * LN 8
31		
32	Firm Sales Pipeline Commodity	LN 19 - LN 29 - LN 30
33	Total Storage	LN 20
34	Total Peaking	LN 21
35	Off-system Sales	LN 22
36	Total Firm Sales Variable Costs	SUM LN 32 : LN 35

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

Commodity Allocation Factors

Firm Sales Sendout for Normal Winter, MMBtu

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
Maine	787,426	1,098,685	1,307,121	1,149,264	1,018,347	691,730	389,721	274,069	253,283	253,739	268,128	424,324	7,915,838	6,052,574	1,863,265
New Hampshire	473,776	684,356	807,343	692,045	588,618	339,380	188,182	121,906	104,158	105,029	116,500	235,230	4,456,523	3,585,518	871,005
Total	1,261,202	1,783,041	2,114,464	1,841,310	1,606,966	1,031,110	577,904	395,975	357,441	358,768	384,628	659,554	12,372,362	9,638,092	2,734,270
Percentage of Total															
Maine	62.43%	61.62%	61.82%	62.42%	63.37%	67.09%	67.44%	69.21%	70.86%	70.73%	69.71%	64.34%	63.98%	62.80%	68.14%
New Hampshire	37.57%	38.38%	38.18%	37.58%	36.63%	32.91%	32.56%	30.79%	29.14%	29.27%	30.29%	35.66%	36.02%	37.20%	31.86%
Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Commodity Allocation by Jurisdiction

	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
Maine															
Total Pipeline	$ 2,905,081	$ 6,513,820	$ 8,064,692	$ 7,655,921	$ 5,114,200	$ 3,621,893	$ 1,887,350	$ 1,287,952	$ 1,215,954	$ 1,209,756	$ 1,195,410	$ 2,049,505	$ 42,721,533	$ 33,875,606	$ 8,845,927
Storage	$ 3,157,543	$ 2,921,599	$ 3,426,446	$ 3,335,210	$ 2,647,219	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 15,488,018	$ 15,488,018	$ -
Peaking	$ 21,050	$ 332,624	$ 2,416,410	$ 622,021	$ 66,180	$ 64,176	$ 59,969	$ 59,115	$ 62,538	$ 62,419	$ 58,370	$ 55,452	$ 3,880,324	$ 3,522,460	$ 357,864
Off-system Sales	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Maine Commodity Costs	$ 6,083,674	$ 9,768,044	$ 13,907,548	$ 11,613,152	$ 7,827,599	$ 3,686,068	$ 1,947,319	$ 1,347,067	$ 1,278,492	$ 1,272,175	$ 1,253,780	$ 2,104,957	$ 62,089,875	$ 52,886,084	$ 9,203,791
Maine Inventory Finance Costs	$ 1,463	$ 2,280	$ 2,843	$ 2,483	$ 2,064	$ 1,204	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,337	$ 12,337	$ -
Total Maine Variable Costs	$ 6,085,136	$ 9,770,324	$ 13,910,391	$ 11,615,635	$ 7,829,663	$ 3,687,273	$ 1,947,319	$ 1,347,067	$ 1,278,492	$ 1,272,175	$ 1,253,780	$ 2,104,957	$ 62,102,212	$ 52,898,421	$ 9,203,791
New Hampshire															
Total Pipeline	$ 1,747,920	$ 4,057,370	$ 4,981,153	$ 4,610,118	$ 2,956,075	$ 1,776,991	$ 911,334	$ 572,880	$ 500,037	$ 500,749	$ 519,400	$ 1,136,170	$ 24,270,196	$ 20,129,627	$ 4,140,569
Storage	$ 1,899,820	$ 1,819,825	$ 2,116,343	$ 2,008,342	$ 1,530,128	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,374,458	$ 9,374,458	$ -
Peaking	$ 12,665	$ 207,187	$ 1,492,494	$ 374,558	$ 38,253	$ 31,486	$ 28,957	$ 26,294	$ 25,718	$ 25,837	$ 25,362	$ 30,741	$ 2,319,552	$ 2,156,644	$ 162,908
Off-system Sales	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total New Hampshire Commodity Costs	$ 3,660,406	$ 6,084,382	$ 8,589,990	$ 6,993,018	$ 4,524,456	$ 1,808,478	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,964,206	$ 31,660,730	$ 4,303,477
New Hampshire Inventory Finance Costs	$ 799	$ 1,243	$ 1,507	$ 1,281	$ 1,038	$ 514	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,382	$ 6,382	$ -
Total New Hampshire Variable Costs	$ 3,661,205	$ 6,085,625	$ 8,591,496	$ 6,994,299	$ 4,525,494	$ 1,808,992	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,970,588	$ 31,667,112	$ 4,303,477
Northern Utilities															
Total Pipeline	$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675	$ 66,991,729	$ 54,005,233	$ 12,986,496
Storage	$ 5,057,363	$ 4,741,424	$ 5,542,789	$ 5,343,552	$ 4,177,347	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 24,862,476	$ 24,862,476	$ -
Peaking	$ 33,715	$ 539,811	$ 3,908,905	$ 996,579	$ 104,433	$ 95,662	$ 88,926	$ 85,409	$ 88,256	$ 88,256	$ 83,732	$ 86,193	$ 6,199,876	$ 5,679,104	$ 520,772
Off-system Sales	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Northern Commodity Costs	$ 9,744,079	$ 15,852,425	$ 22,497,538	$ 18,606,170	$ 12,352,055	$ 5,494,546	$ 2,887,609	$ 1,946,241	$ 1,804,247	$ 1,798,761	$ 1,798,542	$ 3,271,868	$ 98,054,081	$ 84,546,814	$ 13,507,267
Northern Inventory Finance Costs	$ 2,262	$ 3,523	$ 4,349	$ 3,764	$ 3,101	$ 1,719	$ -	$ -	$ -	$ -	$ -	$ -	$ 18,719	$ 18,719	$ -
Total Northern Variable Costs	$ 9,746,341	$ 15,855,949	$ 22,501,887	$ 18,609,934	$ 12,355,156	$ 5,496,265	$ 2,887,609	$ 1,946,241	$ 1,804,247	$ 1,798,761	$ 1,798,542	$ 3,271,868	$ 98,072,800	$ 84,565,533	$ 13,507,267

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

37	**Commodity Allocation Factors**	
38	Firm Sales Sendout for Normal Winter, MMBtu	
39		
40	Maine	Company Analysis
41	New Hampshire	NUI-CAK-3, LN 33/10
42	Total	LN 40 + LN 41
43		
44	**Percentage of Total**	
45	Maine	LN 40 / LN 42
46	New Hampshire	LN 41 / LN 42
47	Total	LN 45 + LN 46
48		
49	**Commodity Allocation by Jurisdiction**	
50	**Maine**	
51	Firm Sales Pipeline Commodity	LN 32 * LN 45
52	Storage	LN 33 * LN 45
53	Peaking	LN 34 * LN 45
54	Off-system Sales	LN 35 * LN 45
55	Total Maine Commodity Costs	SUM LN 51 : LN 54
56	Maine Inventory Finance Costs	LN 95
57	Total Maine Variable Costs	LN 55 + LN 56
58	**New Hampshire**	
59	Firm Sales Pipeline Commodity Excld Hedge	LN 32 * LN 46
60	Storage	LN 33 * LN 46
61	Peaking	LN 34 * LN 46
62	Off-system Sales	LN 35 * LN 46
63	Total New Hampshire Commodity Costs	SUM LN 59 : LN 62
64	New Hampshire Inventory Finance Costs	LN 100
65	Total New Hampshire Variable Costs	LN 63 + LN 64
66	**Northern Utilities**	
67	Firm Sales Pipeline Commodity Excld Hedge	LN 51 + LN 59
68	Storage	LN 52 + LN 60
69	Peaking	LN 53 + LN 61
70	Off-system Sales	LN 54 + LN 62
71	Total Northern Commodity Costs	LN 55 + LN 63
72	Northern Inventory Finance Costs	LN 56 + LN 64
73	Total Northern Variable Costs	LN 57 + LN 65
74		

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

Northern Utilities
Simplified Market Based Allocator (MBA) Calculations
ALLOCATION OF NORTHERN INVENTORY FINANCE CHARGE

Col A	Col B	Col C	Col D	Col E	Col F	Col G	Col H	Col I	Col J	Col K	Col L	Col M	Col N	Col O	Col P
Inventory Finance Charge	**Nov-22**	**Dec-22**	**Jan-23**	**Feb-23**	**Mar-23**	**Apr-23**	**May-23**	**Jun-23**	**Jul-23**	**Aug-23**	**Sep-23**	**Oct-23**	**Annual**	**Winter**	**Summer**
Storage	$ 2,561	$ 1,600	$ 627	$ 71	$ (0)	$ (0)	$ (0)	$ 186	$ 548	$ 915	$ 1,270	$ 1,603	$ 9,380		$ 4,522
Peaking	$ 385	$ 544	$ 564	$ 524	$ 551	$ 548	$ 865	$ 1,193	$ 1,096	$ 912	$ 993	$ 1,163	$ 9,339		$ 6,223
Total	$ 2,946	$ 2,144	$ 1,190	$ 595	$ 551	$ 548	$ 865	$ 1,379	$ 1,644	$ 1,827	$ 2,263	$ 2,766	$ 18,719		$ 10,745
Inventory Finance Charge Allocation by Jurisdiction															
Maine	$ 1,839	$ 1,321	$ 736	$ 371	$ 349	$ 367	$ 583	$ 955	$ 1,165	$ 1,292	$ 1,577	$ 1,780	$ 12,337		$ 7,352
New Hampshire	$ 1,107	$ 823	$ 454	$ 224	$ 202	$ 180	$ 282	$ 425	$ 479	$ 535	$ 685	$ 987	$ 6,382		$ 3,392
Total	$ 2,946	$ 2,144	$ 1,190	$ 595	$ 551	$ 548	$ 865	$ 1,379	$ 1,644	$ 1,827	$ 2,263	$ 2,766	$ 18,719		$ 10,745
Inventory Finance Charge Allocation by Month															
Maine															
Firm Sales Normal Remaining Sendout	542,093	845,174	1,053,610	920,287	764,836	446,396	0	0	0	0	0	0	0	4,572,396	0
Monthly % Sendout of Total Winter	11.86%	18.48%	23.04%	20.13%	16.73%	9.76%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
ME Allocated Inventory Finance Charge	$ 1,463	$ 2,280	$ 2,843	$ 2,483	$ 2,064	$ 1,204	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 12,337	$ -
New Hampshire															
Firm Sales Normal Remaining Sendout	372,930	579,763	702,749	597,574	484,025	239,980	0	0	0	0	0	0	0	2,977,020	0
Monthly % Sendout of Total Winter	12.53%	19.47%	23.61%	20.07%	16.26%	8.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%
NH Allocated Inventory Finance Charge	$ 799	$ 1,243	$ 1,507	$ 1,281	$ 1,038	$ 514	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,382	$ -

Northern Utilities
ALLOCATION OF COMMODITY COSTS BETWEEN ME & NH DIVISIONS

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76 **Simplified Market Based Allocator (MBA) Calculations**
77 **ALLOCATION OF NORTHERN INVENTORY FINANCE CHARGE**
78
79
80

81	**Inventory Finance Charge**	
82	Storage	Attachment NUI-CAK-7 - 'Carrying Costs'
83	Peaking	Attachment NUI-CAK-7 - 'Carrying Costs'
84	Total	SUM LN 82 : LN 83
85		
86	**Inventory Finance Charge Allocation by Jurisdiction**	
87	Maine	LN 45 * LN 84
88	New Hampshire	LN 46 * LN 84
89	Total	SUM LN 87 : LN 88
90		
91	**Inventory Finance Charge Allocation by Month**	
92	**Maine**	
93	Firm Sales Remaining Sendout	Attachment NUI-CAK-3, LN 80/10
94	Monthly % Sendout of Total Winter	LN 93 / LN 93 COL O
95	ME Allocated Inventory Finance Charge	LN 94 * LN 87 COL N
96		
97	**New Hampshire**	
98	Firm Sales Remaining Sendout	Attachment NUI-CAK-3, LN 80/10
99	Monthly % Sendout of Total Winter	LN 98 / LN 98 COL O
100	NH Allocated Inventory Finance Charge	LN 99 * LN 88 COL N

Northern Utilities - NEW HAMPSHIRE DIVISION
COMMODITY COSTS

		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
	Supply Volumes - Therms															
1	New Hampshire Sales Pipeline	2,167,711	4,341,037	4,412,773	4,130,069	3,824,051	3,387,873	1,875,769	1,213,516	1,036,157	1,044,845	1,159,550	2,345,664	30,939,015	22,263,514	8,675,501
2	New Hampshire Sales Storage	2,563,287	2,455,254	2,851,285	2,697,289	2,055,320	0	0	0	0	0	0	0	12,622,435	12,622,435	0
3	New Hampshire Sales Peaking	6,762	47,268	809,366	93,096	6,813	5,925	6,057	5,542	5,420	5,445	5,452	6,634	1,003,779	969,230	34,549
4	Total New Hampshire Firm Sales Sendout	4,737,760	6,843,560	8,073,424	6,920,454	5,886,184	3,393,797	1,881,825	1,219,057	1,041,577	1,050,290	1,165,002	2,352,298	44,565,229	35,855,179	8,710,050
5																
6	New Hampshire Interruptible Sendout (Pipeline)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7																
8	Total Firm Sendout	4,737,760	6,843,560	8,073,424	6,920,454	5,886,184	3,393,797	1,881,825	1,219,057	1,041,577	1,050,290	1,165,002	2,352,298	44,565,229	35,855,179	8,710,050
9	Total Firm Sales	4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480	44,132,969	35,507,405	8,625,565
10	Difference (LAUF & Company Use)	45,954	66,379	78,306	67,126	57,095	32,916	18,254	11,824	10,103	10,187	11,300	22,818	432,259	347,774	84,485
11	Percent Difference	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%	0.97%
12																
13	**Variable Costs**															
14	New Hampshire Sales Pipeline	$ 1,747,920	$ 4,057,370	$ 4,981,153	$ 4,610,118	$ 2,956,075	$ 1,776,991	$ 911,334	$ 572,880	$ 500,037	$ 500,749	$ 519,400	$ 1,136,170	$ 24,270,196	$ 20,129,627	$ 4,140,569
15	New Hampshire Total Storage	$ 1,899,820	$ 1,819,825	$ 2,116,343	$ 2,008,342	$ 1,530,128	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 9,374,458	$ 9,374,458	$ -
16	New Hampshire Total Peaking	$ 12,665	$ 207,187	$ 1,492,494	$ 374,558	$ 38,253	$ 31,486	$ 28,957	$ 26,294	$ 25,718	$ 25,837	$ 25,362	$ 30,741	$ 2,319,552	$ 2,156,644	$ 162,908
17	New Hampshire Inventory Finance Charge	$ 799	$ 1,243	$ 1,507	$ 1,281	$ 1,038	$ 514	$ -	$ -	$ -	$ -	$ -	$ -	$ 6,382	$ 6,382	$ -
18	Total New Hampshire Sales Variable Costs	$ 3,661,205	$ 6,085,625	$ 8,591,496	$ 6,994,299	$ 4,525,494	$ 1,808,992	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,970,588	$ 31,667,112	$ 4,303,477
19														$ -	$ -	$ -
20	New Hampshire Interruptible Commodity Costs	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21	Total New Hampshire Commodity Costs	$ 3,661,205	$ 6,085,625	$ 8,591,496	$ 6,994,299	$ 4,525,494	$ 1,808,992	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,970,588	$ 31,667,112	$ 4,303,477
22																
23	**Supply Cost/Therm**															
24	New Hampshire Sales Pipeline	$ 0.806	$ 0.935	$ 1.129	$ 1.116	$ 0.773	$ 0.525	$ 0.486	$ 0.472	$ 0.483	$ 0.479	$ 0.448	$ 0.484	$ 0.784	$ 0.904	$ 0.477
25	New Hampshire Storage Excld Inventory Finance Costs	$ 0.741	$ 0.741	$ 0.742	$ 0.745	$ 0.744	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0.743	$ 0.743	$ -
26	New Hampshire Peaking Excld Inventory Finance Costs	$ 1.873	$ 4.383	$ 1.844	$ 4.023	$ 5.615	$ 5.315	$ 4.781	$ 4.745	$ 4.745	$ 4.745	$ 4.652	$ 4.634	$ 2.311	$ 2.225	$ 4.715
27	New Hampshire Inventory Finance Costs per Dth Stor and Peak	$ 0.000	$ 0.000	$ 0.000	$ 0.000	$ 0.001	$ 0.087	$ -	$ -	$ -	$ -	$ -	$ -	$ 0.000	$ 0.000	$ -
28	Weighted Average Cost per Dth Sendout	$ 0.773	$ 0.889	$ 1.064	$ 1.011	$ 0.769	$ 0.533	$ 0.500	$ 0.492	$ 0.505	$ 0.501	$ 0.468	$ 0.496	$ 0.807	$ 0.883	$ 0.494
29																
30	New Hampshire Interruptible Cost / Therm	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
31																
32	**Commodity Costs**															
33	Base Commodity, therms	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
34	Base Commodity Cost	$ 813,165	$ 977,587	$ 1,180,654	$ 1,054,521	$ 808,530	$ 521,370	$ 508,162	$ 477,839	$ 502,653	$ 501,271	$ 453,394	$ 506,619	$ 8,305,765	$ 5,355,827	$ 2,949,939
35	Remaining Commodity	$ 2,848,040	$ 5,108,038	$ 7,410,843	$ 5,939,778	$ 3,716,964	$ 1,287,622	$ 432,128	$ 121,335	$ 23,102	$ 25,315	$ 91,367	$ 660,291	$ 27,664,823	$ 26,311,285	$ 1,353,538
36	Total Commodity	$ 3,661,205	$ 6,085,625	$ 8,591,496	$ 6,994,299	$ 4,525,494	$ 1,808,992	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,970,588	$ 31,667,112	$ 4,303,477

Northern Utilities - NEW HAMPSHIRE DIVISION
COMMODITY COSTS

	Supply Volumes - Therms	
1	New Hampshire Sales Pipeline	Attachment NUI-CAK-5, LN 2 * LN 46 * 10
2	New Hampshire Sales Storage	Attachment NUI-CAK-5, LN 3 * LN 46 * 10
3	New Hampshire Sales Peaking	Attachment NUI-CAK-5, LN 4 * LN 46 * 10
4	Total New Hampshire Firm Sales Sendout	Sum LN 1 : LN 3
5		
6	New Hampshire Interruptible Sendout (Pipeline)	Attachment NUI-CAK-5, LN 8 * 10
7		
8	Total Firm Sendout	LN 4
9	Total Firm Sales	Attachment NUI-CAK-3, LN 11
10	Difference (LAUF & Company Use)	LN 8 - LN 9
11	Percent Difference	LN 10 / LN 8
12		
13	**Variable Costs**	
14	New Hampshire Sales Pipeline Commodity	Attachment NUI-CAK-5, LN 59
15	New Hampshire Total Storage	Attachment NUI-CAK-5, LN 60
16	New Hampshire Total Peaking	Attachment NUI-CAK-5, LN 61
17	New Hampshire Inventory Finance Charge	Attachment NUI-CAK-5, LN 64
18	Total New Hampshire Sales Variable Costs	Sum LN 14 : LN 17
19		
20	New Hampshire Interruptible Commodity Costs	Attachment NUI-CAK-5, LN 30
21	Total New Hampshire Commodity Costs	LN 18 + LN 20
22		
23	**Supply Cost/Therm**	
24	New Hampshire Sales Pipeline Commodity	LN 14 / LN 1
25	New Hampshire Storage Excld Inventory Finance Costs	LN 15 / LN 2
26	New Hampshire Peaking Excld Inventory Finance Costs	LN 16 / LN 3
27	New Hampshire Inventory Finance Costs per Dth Stor and Peak	LN 17 / Sum (LN 2 : LN 3)
28	Weighted Average Cost per Dth Sendout	LN 18 / LN 8
29		
30	New Hampshire Interruptible Cost / Therm	LN 20 / LN 6
31		
32	**Commodity Costs**	
33	Base Commodity, therms	Attachment NUI-CAK-3, LN 64
34	Base Commodity Cost	Min (LN 24 * LN 33), LN 18
35	Remaining Commodity	LN 21 - LN 34
36	Total Commodity	LN 34 + LN 35

CONFIDENTIAL

Northern Utilities, Inc.
Storage Inventory and Activity Costs

Denotes Confidential Information

Tennessee Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	211,222	-	65,811	145,411	$ 1,452,996	$ 6.88	NA	$ -	$ 6.88	$ 452,711	$ 1,000,285	2.51%	$ 2,561	$ 1,000,285	$ 452,711
Dec-22	145,411	-	68,004	77,407	$ 1,000,285	$ 6.88	NA	$ -	$ 6.88	$ 467,801	$ 532,484	2.51%	$ 1,600	$ 532,484	$ 467,801
Jan-23	77,407	-	67,547	9,860	$ 532,484	$ 6.88	NA	$ -	$ 6.88	$ 464,657	$ 67,827	2.51%	$ 627	$ 67,827	$ 464,657
Feb-23	9,860	-	9,860	(0)	$ 67,827	$ 6.88	NA	$ -	$ 6.88	$ 67,827	$ (0)	2.51%	$ 71	$ (0)	$ 67,827
Mar-23	-	-	-	-	$ (0)	NA	NA	$ -	$ -	$ -	$ (0)	2.51%	$ (0)	$ (0)	$ -
Apr-23	-	-	-	-	$ (0)	NA	NA	$ -	$ -	$ -	$ (0)	2.51%	$ (0)	$ (0)	$ -
May-23	-	-	-	-	$ (0)	NA	NA	$ -	$ -	$ -	$ (0)	2.51%	$ (0)	$ (0)	$ -
Jun-23	-	42,240	-	42,240	$ (0)	NA	$ 4.22	$ 178,352	$ 4.22	$ -	$ 178,352	2.51%	$ 186	$ 178,352	$ -
Jul-23	42,240	39,446	-	81,686	$ 178,352	$ 4.22	$ 4.26	$ 168,111	$ 4.24	$ -	$ 346,463	2.51%	$ 548	$ 346,463	$ -
Aug-23	81,686	43,648	-	125,334	$ 346,463	$ 4.24	$ 4.20	$ 183,440	$ 4.23	$ -	$ 529,903	2.51%	$ 915	$ 529,902	$ -
Sep-23	125,334	42,240	-	167,574	$ 529,903	$ 4.23	$ 3.72	$ 156,971	$ 4.10	$ -	$ 686,874	2.51%	$ 1,270	$ 686,873	$ -
Oct-23	167,574	43,648	-	211,222	$ 686,874	$ 4.10	$ 3.72	$ 162,237	$ 4.02	$ -	$ 849,111	2.51%	$ 1,603	$ 849,110	$ -

Union Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	3,257,883	-	640,499	2,617,384	$ 23,345,564	$ 7.17	NA	$ -	$ 7.17	$ 4,589,734	$ 18,755,830			$ 18,755,830	$ 4,589,734
Dec-22	2,617,384	-	594,315	2,023,069	$ 18,755,830	$ 7.17	NA	$ -	$ 7.17	$ 4,258,781	$ 14,497,049			$ 14,497,049	$ 4,258,781
Jan-23	2,023,069	-	706,363	1,316,706	$ 14,497,049	$ 7.17	NA	$ -	$ 7.17	$ 5,061,707	$ 9,435,342			$ 9,435,342	$ 5,061,707
Feb-23	1,316,706	-	734,749	581,957	$ 9,435,342	$ 7.17	NA	$ -	$ 7.17	$ 5,265,117	$ 4,170,225			$ 4,170,225	$ 5,265,117
Mar-23	581,957	-	581,957	(0)	$ 4,170,225	$ 7.17	NA	$ -	$ 7.17	$ 4,170,225	$ (0)			$ (0)	$ 4,170,225
Apr-23	-	24,384	-	24,384	$ (0)	#DIV/0!	$ 5.25	$ 128,101	$ 5.83		$ 128,101			$ 128,101	$ -
May-23	24,384	1,136,181	-	1,160,565	$ 128,101	$ 5.25	$ 5.09	$ 5,778,662	$ 5.09		$ 5,906,763			$ 5,906,763	$ -
Jun-23	1,160,565	1,099,530	-	2,260,095	$ 5,906,763	$ 5.09	$ 5.13	$ 5,638,646	$ 5.11		$ 11,545,409			$ 11,545,409	$ -
Jul-23	2,260,095	1,136,181	-	3,396,276	$ 11,545,409	$ 5.11	$ 5.17	$ 5,868,832	$ 5.13		$ 17,414,241			$ 17,414,241	$ -
Aug-23	3,396,276	757,492	-	4,153,768	$ 17,414,241	$ 5.13	$ 5.17	$ 3,918,025	$ 5.14		$ 21,332,267			$ 21,332,267	$ -
Sep-23	4,153,768	733,057	-	4,886,825	$ 21,332,267	$ 5.14	$ 5.16	$ 3,784,201	$ 5.14		$ 25,116,468			$ 25,116,468	$ -
Oct-23	4,886,825	-	-	4,886,825	$ 25,116,468	$ 5.14	$ -	$ -	$ 5.14		$ 25,116,468			$ 25,116,468	$ -

LNG Storage

Month	Beginning Inventory Volume	Injections	Withdrawals	Ending Inventory Volume	Beginning Inventory Cost	Beginning Inventory Rate	Injection Rate	Injected Value	Withdrawal Rate	Withdrawn Value	Ending Inventory Value	Interest Rate	Carrying Costs	Ending Inventory Value Excluding Carrying Costs	Withdrawn Value plus Charges
Nov-22	12,000	1,800	1,800	12,000	[redacted]										
Dec-22	12,000	1,860	1,860	12,000	[redacted]										
Jan-23	12,000	24,060	31,260	4,800	[redacted]										
Feb-23	4,800	1,680	1,680	4,800	[redacted]										
Mar-23	4,800	1,860	1,860	4,800	[redacted]										
Apr-23	4,800	1,800	1,800	4,800	[redacted]										
May-23	4,800	9,060	1,860	12,000	[redacted]										
Jun-23	12,000	1,800	1,800	12,000	[redacted]										
Jul-23	12,000	-	1,860	10,140	[redacted]										
Aug-23	10,140	-	1,860	8,280	[redacted]										
Sep-23	8,280	5,520	1,800	12,000	[redacted]										
Oct-23	12,000	1,860	1,860	12,000	[redacted]										

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Base Commodity Costs

		Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
1	**BASE SENDOUT BY CLASS**															
2	**Total Therms**															
3	Res Heat	418,675	432,631	432,631	390,764	432,631	418,675	432,631	418,675	430,829	432,631	418,675	432,631	5,092,081	2,526,008	2,566,073
4	Res General	9,499	9,816	9,816	8,866	9,816	9,499	9,816	9,499	9,775	9,816	9,499	9,816	115,535	57,313	58,222
5	G50 Low Annual-Low Winter	76,203	78,743	78,743	71,123	78,743	76,203	78,743	76,203	78,415	78,743	76,203	78,743	926,809	459,759	467,051
6	G40 Low Annual-High Winter	148,044	152,979	152,979	138,175	152,979	148,044	152,979	148,044	152,342	152,979	148,044	152,979	1,800,570	893,201	907,369
7	G51 Med Annual-Low Winter	127,968	132,233	132,233	119,437	132,233	127,968	132,233	127,968	131,683	132,233	127,968	132,233	1,556,390	772,072	784,318
8	G41 Med Annual-High Winter	141,819	146,547	146,547	132,365	146,547	141,819	146,547	141,819	145,936	146,547	141,819	146,547	1,724,859	855,644	869,215
9	G52 High Annual-Low Winter	50,965	56,523	56,523	51,053	56,523	36,508	56,523	54,699	56,287	56,523	54,699	56,523	643,347	308,094	335,254
10	G42 High Annual-High Winter	35,285	36,462	36,462	32,933	36,462	35,285	36,462	35,285	36,310	36,462	35,285	36,462	429,155	212,889	216,266
11	Total Firm Sales	1,008,460	1,045,934	1,045,934	944,715	1,045,934	994,003	1,045,934	1,012,194	1,041,577	1,045,934	1,012,194	1,045,934	12,288,747	6,084,979	6,203,767
12	**% of Total**															
13	Res Heat	41.52%	41.36%	41.36%	41.36%	41.36%	42.12%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%			
14	Res General	0.94%	0.94%	0.94%	0.94%	0.94%	0.96%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%			
15	G50 Low Annual-Low Winter	7.56%	7.53%	7.53%	7.53%	7.53%	7.67%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%			
16	G40 Low Annual-High Winter	14.68%	14.63%	14.63%	14.63%	14.63%	14.89%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%			
17	G51 Med Annual-Low Winter	12.69%	12.64%	12.64%	12.64%	12.64%	12.87%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%			
18	G41 Med Annual-High Winter	14.06%	14.01%	14.01%	14.01%	14.01%	14.27%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%			
19	G52 High Annual-Low Winter	5.05%	5.40%	5.40%	5.40%	5.40%	3.67%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%			
20	G42 High Annual-High Winter	3.50%	3.49%	3.49%	3.49%	3.49%	3.55%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%			
21	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			

22	**BASE COMMODITY COSTS**	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
23	TOTAL BASE COMMODITY	$ 813,165	$ 977,587	$ 1,180,654	$ 1,054,521	$ 808,530	$ 521,370	$ 508,162	$ 477,839	$ 502,653	$ 501,271	$ 453,394	$ 506,619	$ 8,305,765	$ 5,355,827	$ 2,949,939
24	Res Heat	$ 337,596	$ 404,361	$ 488,356	$ 436,183	$ 334,433	$ 219,602	$ 210,192	$ 197,649	$ 207,913	$ 207,341	$ 187,538	$ 209,554	$ 3,440,718	$ 2,220,531	$ 1,220,187
25	Res General	$ 7,660	$ 9,175	$ 11,080	$ 9,897	$ 7,588	$ 4,983	$ 4,769	$ 4,484	$ 4,717	$ 4,704	$ 4,255	$ 4,755	$ 78,067	$ 50,382	$ 27,685
26	G50 Low Annual-Low Winter	$ 61,446	$ 73,598	$ 88,886	$ 79,390	$ 60,870	$ 39,970	$ 38,257	$ 35,974	$ 37,842	$ 37,738	$ 34,134	$ 38,141	$ 626,245	$ 404,159	$ 222,086
27	G40 Low Annual-High Winter	$ 119,375	$ 142,983	$ 172,683	$ 154,235	$ 118,256	$ 77,652	$ 74,324	$ 69,889	$ 73,518	$ 73,316	$ 66,314	$ 74,099	$ 1,216,645	$ 785,184	$ 431,461
28	G51 Med Annual-Low Winter	$ 103,186	$ 123,592	$ 149,265	$ 133,319	$ 102,219	$ 67,121	$ 64,245	$ 60,411	$ 63,548	$ 63,374	$ 57,321	$ 64,050	$ 1,051,652	$ 678,703	$ 372,949
29	G41 Med Annual-High Winter	$ 114,355	$ 136,971	$ 165,422	$ 147,750	$ 113,284	$ 74,386	$ 71,199	$ 66,950	$ 70,427	$ 70,233	$ 63,525	$ 70,983	$ 1,165,487	$ 752,168	$ 413,318
30	G52 High Annual-Low Winter	$ 41,096	$ 52,829	$ 63,803	$ 56,987	$ 43,693	$ 19,149	$ 27,461	$ 25,823	$ 27,164	$ 27,089	$ 24,502	$ 27,378	$ 436,972	$ 277,557	$ 159,416
31	G42 High Annual-High Winter	$ 28,452	$ 34,079	$ 41,158	$ 36,761	$ 28,186	$ 18,508	$ 17,715	$ 16,658	$ 17,523	$ 17,474	$ 15,806	$ 17,661	$ 289,980	$ 187,144	$ 102,836
32																
33	Residential	$ 345,256	$ 413,535	$ 499,436	$ 446,080	$ 342,021	$ 224,584	$ 214,961	$ 202,134	$ 212,630	$ 212,046	$ 191,793	$ 214,308	$ 3,518,785	$ 2,270,913	$ 1,247,872
34	SALES HLF CLASSES	$ 205,727	$ 250,019	$ 301,954	$ 269,695	$ 206,783	$ 126,240	$ 129,963	$ 122,208	$ 128,554	$ 128,201	$ 115,956	$ 129,569	$ 2,114,869	$ 1,360,418	$ 754,451
35	SALES LLF CLASSES	$ 262,182	$ 314,032	$ 379,264	$ 338,746	$ 259,726	$ 170,546	$ 163,238	$ 153,497	$ 161,468	$ 161,024	$ 145,645	$ 162,742	$ 2,672,111	$ 1,724,496	$ 947,615

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Base Commodity Costs

1	**BASE SENDOUT BY CLASS**	
2	**Total Therms**	
3	Res Heat	Attachment NUI-CAK-3, LN 52
4	Res General	Attachment NUI-CAK-3, LN 53
5	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 54
6	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 55
7	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 56
8	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 57
9	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 58
10	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 59
11	Total Firm Sales	Sum LN 3 : LN 10
12	**% of Total**	
13	Res Heat	LN 3 / LN 11
14	Res General	LN 4 / LN 11
15	G50 Low Annual-Low Winter	LN 5 / LN 11
16	G40 Low Annual-High Winter	LN 6 / LN 11
17	G51 Med Annual-Low Winter	LN 7 / LN 11
18	G41 Med Annual-High Winter	LN 8 / LN 11
19	G52 High Annual-Low Winter	LN 9 / LN 11
20	G42 High Annual-High Winter	LN 10 / LN 11
21	Total Firm Sales	Sum LN 13 : LN 20

22	**BASE COMMODITY COSTS**	
23	TOTAL BASE COMMODITY	Attachment NUI-CAK-6, LN 34
24	Res Heat	LN 23 * LN 13
25	Res General	LN 23 * LN 14
26	G50 Low Annual-Low Winter	LN 23 * LN 15
27	G40 Low Annual-High Winter	LN 23 * LN 16
28	G51 Med Annual-Low Winter	LN 23 * LN 17
29	G41 Med Annual-High Winter	LN 23 * LN 18
30	G52 High Annual-Low Winter	LN 23 * LN 19
31	G42 High Annual-High Winter	LN 23 * LN 20
32		
33	Residential	LN 24 + LN 25
34	SALES HLF CLASSES	LN 26 + LN 28 + LN 30
35	SALES LLF CLASSES	LN 27 + LN 29 + LN 31

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Remaining Commodity Costs

36	REMAINING SENDOUT BY CLASS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
37	Total Therms															
38	Res Heat	1,803,234	2,776,854	3,353,634	2,854,782	2,327,864	1,172,945	345,751	85,565	-	1,802	63,206	540,352	15,325,989	14,289,312	1,036,677
39	Res General	11,118	19,966	25,318	21,250	15,799	5,270	7,845	1,941	-	41	1,434	12,260	122,243	98,721	23,521
40	G50 Low Annual-Low Winter	39,992	89,098	119,261	98,604	65,618	7,031	62,930	15,574	-	328	11,504	98,350	608,289	419,603	188,685
41	G40 Low Annual-High Winter	976,776	1,471,791	1,763,781	1,504,852	1,244,495	657,698	122,258	30,256	-	637	22,350	191,070	7,985,963	7,619,392	366,571
42	G51 Med Annual-Low Winter	91,589	184,910	241,904	201,270	140,543	29,307	105,678	26,153	-	551	19,319	165,158	1,206,381	889,522	316,859
43	G41 Med Annual-High Winter	644,423	989,158	1,193,257	1,016,100	830,279	421,389	117,117	28,984	-	610	21,410	183,035	5,445,763	5,094,606	351,157
44	G52 High Annual-Low Winter	-	17,095	30,325	23,393	6,797	-	45,172	11,179	-	235	8,258	70,596	213,050	77,610	135,440
45	G42 High Annual-High Winter	162,169	248,755	300,012	255,489	208,855	106,157	29,139	7,211	-	152	5,327	45,540	1,368,807	1,281,437	87,370
46	Total Firm Sales	3,729,300	5,797,627	7,027,492	5,975,739	4,840,249	2,399,797	835,890	206,864	-	4,357	152,808	1,306,362	32,276,484	29,770,203	2,506,281
47	% of Total															
48	Res Heat	48.35%	47.90%	47.72%	47.77%	48.09%	48.88%	41.36%	41.36%	41.36%	41.36%	41.36%	41.36%			
49	Res General	0.30%	0.34%	0.36%	0.36%	0.33%	0.22%	0.94%	0.94%	0.94%	0.94%	0.94%	0.94%			
50	G50 Low Annual-Low Winter	1.07%	1.54%	1.70%	1.65%	1.36%	0.29%	7.53%	7.53%	7.53%	7.53%	7.53%	7.53%			
51	G40 Low Annual-High Winter	26.19%	25.39%	25.10%	25.18%	25.71%	27.41%	14.63%	14.63%	14.63%	14.63%	14.63%	14.63%			
52	G51 Med Annual-Low Winter	2.46%	3.19%	3.44%	3.37%	2.90%	1.22%	12.64%	12.64%	12.64%	12.64%	12.64%	12.64%			
53	G41 Med Annual-High Winter	17.28%	17.06%	16.98%	17.00%	17.15%	17.56%	14.01%	14.01%	14.01%	14.01%	14.01%	14.01%			
54	G52 High Annual-Low Winter	0.00%	0.29%	0.43%	0.39%	0.14%	0.00%	5.40%	5.40%	5.40%	5.40%	5.40%	5.40%			
55	G42 High Annual-High Winter	4.35%	4.29%	4.27%	4.28%	4.31%	4.42%	3.49%	3.49%	3.49%	3.49%	3.49%	3.49%			
56	Total Firm Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%			

57	REMAINING COMMODITY COSTS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
58	REMAINING COMMODITY	$ 2,848,040	$ 5,108,038	$ 7,410,843	$ 5,939,778	$ 3,716,964	$ 1,287,622	$ 432,128	$ 121,335	$ 23,102	$ 25,315	$ 91,367	$ 660,291	$ 27,664,823	$ 26,311,285	$ 1,353,538
59	Res Heat	$ 1,377,117	$ 2,446,566	$ 3,536,576	$ 2,837,603	$ 1,787,632	$ 629,349	$ 178,742	$ 50,188	$ 9,556	$ 10,471	$ 37,792	$ 273,117	$ 13,174,708	$ 12,614,842	$ 559,866
60	Res General	$ 8,491	$ 17,591	$ 26,699	$ 21,122	$ 12,133	$ 2,827	$ 4,055	$ 1,139	$ 217	$ 238	$ 857	$ 6,197	$ 101,566	$ 88,863	$ 12,703
61	G50 Low Annual-Low Winter	$ 30,542	$ 78,500	$ 125,766	$ 98,010	$ 50,390	$ 3,773	$ 32,533	$ 9,135	$ 1,739	$ 1,906	$ 6,879	$ 49,710	$ 488,882	$ 386,981	$ 101,901
62	G40 Low Annual-High Winter	$ 745,957	$ 1,296,732	$ 1,859,996	$ 1,495,796	$ 955,683	$ 352,891	$ 63,203	$ 17,747	$ 3,379	$ 3,703	$ 13,363	$ 96,575	$ 6,905,023	$ 6,707,053	$ 197,970
63	G51 Med Annual-Low Winter	$ 69,946	$ 162,916	$ 255,100	$ 200,059	$ 107,927	$ 15,725	$ 54,632	$ 15,340	$ 2,921	$ 3,200	$ 11,551	$ 83,478	$ 982,794	$ 811,671	$ 171,123
64	G41 Med Annual-High Winter	$ 492,141	$ 871,504	$ 1,258,349	$ 1,009,986	$ 637,595	$ 226,098	$ 60,546	$ 17,000	$ 3,237	$ 3,547	$ 12,802	$ 92,514	$ 4,685,318	$ 4,495,673	$ 189,645
65	G52 High Annual-Low Winter	$ -	$ 15,062	$ 31,980	$ 23,252	$ 5,219	$ -	$ 23,352	$ 6,557	$ 1,248	$ 1,368	$ 4,938	$ 35,682	$ 148,658	$ 75,513	$ 73,146
66	G42 High Annual-High Winter	$ 123,847	$ 219,168	$ 316,378	$ 253,951	$ 160,386	$ 56,959	$ 15,064	$ 4,230	$ 805	$ 882	$ 3,185	$ 23,018	$ 1,177,873	$ 1,130,688	$ 47,185
67																
68	Residential	$ 1,385,608	$ 2,464,156	$ 3,563,274	$ 2,858,725	$ 1,799,765	$ 632,177	$ 182,797	$ 51,327	$ 9,773	$ 10,709	$ 38,650	$ 279,314	$ 13,276,274	$ 12,703,705	$ 572,569
69	SALES HLF CLASSES	$ 100,487	$ 256,478	$ 412,846	$ 321,321	$ 163,536	$ 19,497	$ 110,517	$ 31,032	$ 5,908	$ 6,474	$ 23,367	$ 168,870	$ 1,620,334	$ 1,274,165	$ 346,169
70	SALES LLF CLASSES	$ 1,361,945	$ 2,387,403	$ 3,434,723	$ 2,759,732	$ 1,753,663	$ 635,948	$ 138,813	$ 38,977	$ 7,421	$ 8,132	$ 29,350	$ 212,107	$ 12,768,214	$ 12,333,414	$ 434,800

Total Commodity Costs

71	TOTAL COMMODITY COSTS	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Annual	Winter	Summer
72	TOTAL COMMODITY	$ 3,661,205	$ 6,085,625	$ 8,591,496	$ 6,994,299	$ 4,525,494	$ 1,808,992	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911	$ 35,970,588	$ 31,667,112	$ 4,303,477
73	Res Heat	$ 1,714,713	$ 2,850,926	$ 4,024,931	$ 3,273,786	$ 2,122,066	$ 848,951	$ 388,934	$ 247,837	$ 217,469	$ 217,812	$ 225,330	$ 482,671	$ 16,615,426	$ 14,835,373	$ 1,780,053
74	Res General	$ 16,151	$ 26,766	$ 37,779	$ 31,019	$ 19,721	$ 7,810	$ 8,825	$ 5,623	$ 4,934	$ 4,942	$ 5,113	$ 10,951	$ 179,633	$ 139,245	$ 40,388
75	G50 Low Annual-Low Winter	$ 91,988	$ 152,098	$ 214,652	$ 177,400	$ 111,260	$ 43,742	$ 70,790	$ 45,109	$ 39,581	$ 39,644	$ 41,012	$ 87,851	$ 1,115,127	$ 791,140	$ 323,987
76	G40 Low Annual-High Winter	$ 865,331	$ 1,439,714	$ 2,032,679	$ 1,650,031	$ 1,073,939	$ 430,542	$ 137,528	$ 87,636	$ 76,897	$ 77,019	$ 79,677	$ 170,673	$ 8,121,667	$ 7,492,237	$ 629,430
77	G51 Med Annual-Low Winter	$ 173,132	$ 286,508	$ 404,365	$ 333,378	$ 210,146	$ 82,846	$ 118,877	$ 75,751	$ 66,469	$ 66,574	$ 68,872	$ 147,528	$ 2,034,446	$ 1,490,374	$ 544,072
78	G41 Med Annual-High Winter	$ 606,496	$ 1,008,475	$ 1,423,771	$ 1,157,735	$ 750,878	$ 300,485	$ 131,745	$ 83,951	$ 73,664	$ 73,780	$ 76,327	$ 163,497	$ 5,850,805	$ 5,247,841	$ 602,964
79	G52 High Annual-Low Winter	$ 41,096	$ 67,891	$ 95,783	$ 80,238	$ 48,913	$ 19,149	$ 50,814	$ 32,380	$ 28,412	$ 28,457	$ 29,439	$ 63,060	$ 585,631	$ 353,069	$ 232,561
80	G42 High Annual-High Winter	$ 152,299	$ 253,247	$ 357,536	$ 290,712	$ 188,571	$ 75,467	$ 32,779	$ 20,887	$ 18,328	$ 18,357	$ 18,991	$ 40,679	$ 1,467,853	$ 1,317,832	$ 150,021
81																
82	Residential	$ 1,730,864	$ 2,877,692	$ 4,062,710	$ 3,304,805	$ 2,141,787	$ 856,761	$ 397,758	$ 253,460	$ 222,403	$ 222,754	$ 230,443	$ 493,622	$ 16,795,059	$ 14,974,618	$ 1,820,441
83	SALES HLF CLASSES	$ 306,215	$ 506,497	$ 714,800	$ 591,016	$ 370,319	$ 145,737	$ 240,481	$ 153,240	$ 134,463	$ 134,675	$ 139,323	$ 298,439	$ 3,735,204	$ 2,634,583	$ 1,100,620
84	SALES LLF CLASSES	$ 1,624,127	$ 2,701,436	$ 3,813,986	$ 3,098,478	$ 2,013,389	$ 806,494	$ 302,052	$ 192,474	$ 168,889	$ 169,156	$ 174,995	$ 374,849	$ 15,440,325	$ 14,057,910	$ 1,382,415
85																
86	% ALLOCATION BETWEEN HLF & LLF															
87	HLF CLASSES%														15.78%	44.33%
88	LLF CLASSES %														84.22%	55.67%

Northern Utilities - NEW HAMPSHIRE DIVISION
Allocation of Commodity Costs to Customer Classes

Remaining Commodity Costs

36	**REMAINING SENDOUT BY CLASS**	
37	**Total Therms**	
38	Res Heat	Attachment NUI-CAK-3, LN 68
39	Res General	Attachment NUI-CAK-3, LN 69
40	G50 Low Annual-Low Winter	Attachment NUI-CAK-3, LN 70
41	G40 Low Annual-High Winter	Attachment NUI-CAK-3, LN 71
42	G51 Med Annual-Low Winter	Attachment NUI-CAK-3, LN 72
43	G41 Med Annual-High Winter	Attachment NUI-CAK-3, LN 73
44	G52 High Annual-Low Winter	Attachment NUI-CAK-3, LN 74
45	G42 High Annual-High Winter	Attachment NUI-CAK-3, LN 75
46	Total Firm Sales	Sum LN 38 : LN 45
47	**% of Total**	
48	Res Heat	LN 38 / LN 46
49	Res General	LN 39 / LN 46
50	G50 Low Annual-Low Winter	LN 40 / LN 46
51	G40 Low Annual-High Winter	LN 41 / LN 46
52	G51 Med Annual-Low Winter	LN 42 / LN 46
53	G41 Med Annual-High Winter	LN 43 / LN 46
54	G52 High Annual-Low Winter	LN 44 / LN 46
55	G42 High Annual-High Winter	LN 45 / LN 46
56	Total Firm Sales	Sum LN 62 : LN 69

57	**REMAINING COMMODITY COSTS**	
58	REMAINING COMMODITY	Attachment NUI-CAK-6, LN 35
59	Res Heat	LN 58 * LN 48
60	Res General	LN 58 * LN 49
61	G50 Low Annual-Low Winter	LN 58 * LN 50
62	G40 Low Annual-High Winter	LN 58 * LN 51
63	G51 Med Annual-Low Winter	LN 58 * LN 52
64	G41 Med Annual-High Winter	LN 58 * LN 53
65	G52 High Annual-Low Winter	LN 58 * LN 54
66	G42 High Annual-High Winter	LN 58 * LN 55
67		
68	Residential	LN 59 + LN 60
69	SALES HLF CLASSES	LN 61 + LN 63 + LN 65
70	SALES LLF CLASSES	LN 62 + LN 64 + LN 66

Total Commodity Costs

71	**TOTAL COMMODITY COSTS**	
72	TOTAL COMMODITY	Attachment NUI-CAK-6, LN 36
73	Res Heat	LN 24 + LN 59
74	Res General	LN 25 + LN 60
75	G50 Low Annual-Low Winter	LN 26 + LN 61
76	G40 Low Annual-High Winter	LN 27 + LN 62
77	G51 Med Annual-Low Winter	LN 28 + LN 63
78	G41 Med Annual-High Winter	LN 29 + LN 64
79	G52 High Annual-Low Winter	LN 30 + LN 65
80	G42 High Annual-High Winter	LN 31 + LN 66
81		
82	Residential	LN 73 + LN 74
83	SALES HLF CLASSES	LN 75 + LN 77 + LN 79
84	SALES LLF CLASSES	LN 76 + LN 78 + LN 80

Northern Utilities - NEW HAMPSHIRE DIVISION
Supporting Detail to Proposed Tariff Sheets
Demand and Commodity Cost Reallocation to HLF and LLF Customers

		Winter	Summer	Annual	
1	Demand	$ 10,341,068	$ 1,452,867	$ 11,793,935	Attachment NUI-CAK-2, LN 80
2	Commodity	$ 31,667,112	$ 4,303,477	$ 35,970,588	Attachment NUI-CAK-6, LN 36
3	Total	$ 42,008,180	$ 5,756,344	$ 47,764,523	LN 1 + LN 2
4					
5	Forecasted Firm Sales (Therms)	35,507,405	8,625,565	44,132,969	Attachment NUI-CAK-3, LN 11
6	Forecasted Residential Sales (Therms)	16,806,740	3,648,755	20,455,496	Attachment NUI-CAK-3, LN 3
7	Average Residential Rate:	**Winter**	**Summer**	**Annual**	
8	Average Demand Rate	$0.2912	$0.1684		LN 1 / LN 5
9	Average Commodity Rate	$0.8918	$0.4989		LN 2 / LN 5
10	Average Rate	$1.1831	$0.6674		LN 3 / LN 5
11					
12	**Residential Reallocation:**	**Winter**	**Summer**	**Annual**	
13	Demand Costs Allocated To Residential per SMBA	$ 4,975,482	$ 655,375	$ 5,630,856	Attachment NUI-CAK-4, LN 169
14	Demand Costs Allocated To Residential per Avg Res. Rate	$ 4,894,744	$ 614,450	$ 5,509,194	LN 8 * LN 6
15	**Demand Reallocation:**	$ 80,738	$ 40,924	$ 121,662	LN 13 - LN 14
16	**HLF Allocation**	$ 8,570	$ 11,833	$ 20,403	LN 15 * LN 20
17	**LLF Allocation**	$ 72,168	$ 29,091	$ 101,259	LN 15 * LN 21
18					
19	**SMBA Capacity Cost Allocation (%)**				
20	HLF	10.61%	28.92%		Attachment NUI-CAK-4, LN 174
21	LLF	89.39%	71.08%		Attachment NUI-CAK-4, LN 175
22					
23	Commodity Costs Allocated To Residential per SMBA	$ 14,974,618	$ 1,820,441	$ 16,795,059	Attachment NUI-CAK-8, LN 82
24	Commodity Costs Allocated To Residential per Avg Res. Rate	$ 14,989,012	$ 1,820,364	$ 16,809,376	LN 9 * LN 6
25	**Commodity Reallocation:**	$ (14,394)	$ 77	$ (14,317)	LN 23 - LN 24
26	**HLF Allocation**	$ (2,272)	$ 34	$ (2,238)	LN 25 * LN 30
27	**LLF Allocation**	$ (12,123)	$ 43	$ (12,080)	LN 25 * LN 31
28					
29	**SMBA Commodity Cost Allocation (%)**				
30	HLF	15.78%	44.33%		Attachment NUI-CAK-8, LN 87
31	LLF	84.22%	55.67%		Attachment NUI-CAK-8, LN 88

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 1: SUMMARY OF ANNUAL BALANCE
August 2021 - October 2022

	AMOUNT	
Annual Beginning Balance	$ (3,085,000)	FORM III SCHEDULE 2
Less: Reported Collections	$ (41,330,648)	FORM III SCHEDULE 3
Add: Cost of Firm Gas Allowable	$ 42,106,010	FORM III SCHEDULE 4
Add: Interest	$ (109,900)	FORM III SCHEDULE 2
Annual Ending Balance	$ (2,419,538)	
Summer Season Reconciliation	$ 100,234	FORM III ATTACHMENT F
Winter Season Reconciliation	$ (2,519,772)	FORM III ATTACHMENT F

NORTHERN UTILTIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 2: ADJUSTMENTS TO REPORTED SUMMER, WINTER AND ANNUAL ACCOUNTS
August 2021 - October 2022
Acct 191

												-----Estimated-----			
	Aug-21	**Sep-21**	**Oct-21**	**Nov-21**	**Dec-21**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Total**
Inital Account Beginning Balance	$ (3,091,269)															
Adjustment (1)	$ 6,269															
Adjusted Beginning Balance	$ (3,085,000)	$ (2,074,098)	$ (982,516)	$ 255,642	$ (377,474)	$ (984,424)	$ (1,438,786)	$ (2,804,712)	$ (4,215,959)	$ (5,467,286)	$ (4,774,504)	$ (3,934,788)	$ (3,387,498)	$ (2,740,207)	$ (2,284,477)	
Plus: Cost of Firm Gas (Schedule 4)	$ 1,449,728	$ 1,524,147	$ 1,950,666	$ 3,182,223	$ 4,893,095	$ 6,851,035	$ 5,356,607	$ 3,988,417	$ 2,269,913	$ 1,813,469	$ 1,525,429	$ 1,303,316	$ 1,652,041	$ 1,817,491	$ 2,528,433	$ 42,106,010
Less: Reported Collections (Schedule 3)	$ (431,849)	$ (428,432)	$ (711,525)	$ (3,815,175)	$ (5,498,203)	$ (7,302,120)	$ (6,716,795)	$ (5,390,169)	$ (3,508,145)	$ (1,106,837)	$ (673,935)	$ (743,843)	$ (994,555)	$ (1,353,401)	$ (2,655,666)	$ (41,330,648)
Annual Account Ending Balance	$ (2,067,121)	$ (978,382)	$ 256,625	$ (377,310)	$ (982,582)	$ (1,435,509)	$ (2,798,974)	$ (4,206,465)	$ (5,454,191)	$ (4,760,654)	$ (3,923,010)	$ (3,375,314)	$ (2,730,011)	$ (2,276,117)	$ (2,411,711)	
Month's Average Balance	$ (2,576,060)	$ (1,526,240)	$ (362,945)	$ (60,834)	$ (680,028)	$ (1,209,966)	$ (2,118,880)	$ (3,505,589)	$ (4,835,075)	$ (5,113,970)	$ (4,348,757)	$ (3,655,051)	$ (3,058,754)	$ (2,508,162)	$ (2,348,094)	
Interest Rate (Prime Rate)	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.00%	4.00%	4.00%	4.00%	
Interest Applied	$ (6,977)	$ (4,134)	$ (983)	$ (165)	$ (1,842)	$ (3,277)	$ (5,739)	$ (9,494)	$ (13,095)	$ (13,850)	$ (11,778)	$ (12,184)	$ (10,196)	$ (8,361)	$ (7,827)	$ (109,900)
Annual Account Ending Balance w/int	$ (2,074,098)	$ (982,516)	$ 255,642	$ (377,474)	$ (984,424)	$ (1,438,786)	$ (2,804,712)	$ (4,215,959)	$ (5,467,286)	$ (4,774,504)	$ (3,934,788)	$ (3,387,498)	$ (2,740,207)	$ (2,284,477)	$ (2,419,538)	

(1) Reflects Fuel Tax Recovery Expense of $10,540 plus ATV charges, plus interest, not included in 2019 - 2020 reconciliation.

Attachment NUI-CAK-10
FORM III
Schedule 3

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 3: REVENUE BACKUP TO REPORTED COLLECTIONS
August 2021 - October 2022

	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22 (Estimated[1])	Sep-22 (Estimated[1])	Oct-22 (Estimated[1])	Total
Accrued Revenue	$ (20,383)	$ (26,148)	$ 123,726	$ 1,827,473	$ 594,965	$ 641,860	$ (410,161)	$ (860,914)	$ (504,541)	$ (909,991)	$ (241,998)	$ (88,683)				
Billed Revenue	$ 452,233	$ 454,580	$ 587,798	$ 1,987,702	$ 4,903,238	$ 6,660,260	$ 7,126,956	$ 6,251,082	$ 4,012,686	$ 2,016,828	$ 915,933	$ 832,526				
Calendarized Revenue	$ 431,849	$ 428,432	$ 711,525	$ 3,815,175	$ 5,498,203	$ 7,302,120	$ 6,716,795	$ 5,390,169	$ 3,508,145	$ 1,106,837	$ 673,935	$ 743,843	$ 994,555	$ 1,353,401	$ 2,655,666	$ 41,330,648

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2021 - October 2022

													Estimated[(1)]			
Commodity Costs	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Total
Citadel Energy	$ -	$ -	$ -	$ -	$ -	$ 434,767	$ 448,750	$ 416,882	$ -	$ -	$ -	$ 30,230				$ 1,330,629
DTE Energy	$ 54,410	$ 55,209	$ 62,508	$ 93,098	$ 96,770	$ 51,147	$ -	$ -	$ 36,265	$ -	$ -	$ -				$ 449,406
Emera Energy Services Corp.	$ 176,055	$ 214,622	$ 318,473	$ 642,889	$ 1,185,284	$ 2,127,443	$ 2,073,780	$ 2,478,915	$ 1,367,635	$ 1,276,983	$ 1,068,077	$ 734,868				$ 13,665,023
Repsol	$ 60,239	$ 58,817	$ 62,507	$ 88,577	$ 108,741	$ 419,445	$ 1,920,023	$ 1,021,527	$ 427,034	$ -	$ -	$ -				$ 4,166,909
Shell	$ -	$ 9,855	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -				$ 9,855
Subtotal - Commodity	$ 290,705	$ 338,503	$ 443,488	$ 824,563	$ 1,390,795	$ 3,032,802	$ 4,442,552	$ 3,917,324	$ 1,830,934	$ 1,276,983	$ 1,068,077	$ 765,098				$ 19,621,823
Transportation																
Granite	$ 101	$ 116	$ 126	$ 254	$ 419	$ 648	$ 507	$ 304	$ 187	$ 163	$ 118	$ 97				$ 3,039
Emera	$ 57	$ 45	$ 81	$ 186	$ 458	$ 677	$ 1,058	$ 885	$ 548	$ 424	$ 331	$ 200				$ 4,950
Emera Energy Services	$ -	$ -	$ -	$ -	$ 1,247	$ 1,313	$ 2,367	$ 1,832	$ 2,074	$ 12	$ 8	$ -				$ 8,853
Maritimes	$ (3,793)	$ -	$ -	$ -	$ 7,311	$ 26,834	$ 22,982	$ 21,834	$ 11,788	$ -	$ -	$ -				$ 86,956
Tennessee	$ 2,253	$ 1,984	$ 1,717	$ 1,818	$ 1,711	$ 2,254	$ 2,506	$ 2,315	$ 2,338	$ 2,300	$ 2,398	$ 2,136				$ 25,732
Subtotal - Commodity Transportation	$ (1,381)	$ 2,145	$ 1,925	$ 2,258	$ 11,147	$ 31,725	$ 29,420	$ 27,169	$ 16,934	$ 2,899	$ 2,855	$ 2,433				$ 129,530
Commodity Cost Estimates	$ 340,536	$ 445,304	$ 826,567	$ 1,401,523	$ 3,024,667	$ 4,471,277	$ 3,944,397	$ 1,847,812	$ 1,281,905	$ 1,070,814	$ 767,435	$ 521,844				$ 19,944,082
Commodity Cost Reversals	$ (293,016)	$ (340,536)	$ (445,304)	$ (826,567)	$ (1,401,523)	$ (3,024,667)	$ (4,471,277)	$ (3,944,397)	$ (1,847,812)	$ (1,281,905)	$ (1,070,814)	$ (767,435)				$ (19,715,254)
Subtotal - Estimates	$ 47,520	$ 104,768	$ 381,263	$ 574,956	$ 1,623,144	$ 1,446,610	$ (526,880)	$ (2,096,585)	$ (565,907)	$ (211,092)	$ (303,379)	$ (245,591)				$ 40,629,693
Subtotal - Supply	$ 336,844	$ 445,416	$ 826,675	$ 1,401,777	$ 3,025,087	$ 4,511,138	$ 3,945,092	$ 1,847,908	$ 1,281,962	$ 1,068,790	$ 767,553	$ 521,940				$ 19,980,181
Withdrawal - Underground Storage	$ 4,228	$ 3,114	$ (7,135)	$ 535,015	$ 613,115	$ 1,103,032	$ 862,673	$ 597,180	$ 114	$ 52	$ (244)	$ 140				$ 3,711,284
ATV Reconciliation Charges	$ (6,276)	$ (3,079)	$ 14,019	$ 48,546	$ (55,137)	$ (246,204)	$ (161,610)	$ (15,690)	$ 34,491	$ -	$ -	$ -				$ (390,939)
Off System Sales	$ -	$ -	$ -	$ (33,131)	$ (19,114)	$ -	$ -	$ (713,954)	$ (256,926)	$ (13,782)	$ -	$ -				$ (1,036,906)
Net OBA Adjustment	$ (4,169)	$ 558	$ 504	$ (1,065)	$ (707)	$ (16,308)	$ (18,106)	$ (26,245)	$ (16,203)	$ (3,330)	$ (1,199)	$ (76)				$ (86,346)
Company Managed	$ -	$ -	$ -	$ -	$ (150,524)	$ (151,331)	$ -	$ (397,607)	$ (133,072)	$ -	$ -	$ -				$ (832,534)
LNG Withdrawal / Boiloff	$ 2,139	$ 2,101	$ 1,669	$ 1,568	$ 5,186	$ 65,575	$ 19,965	$ (943)	$ 3,446	$ 2,817	$ 2,959	$ 2,865				$ 109,345
Supplier Balancing	$ -	$ (16,467)	$ 659	$ (79,193)	$ 30,458	$ 147,211	$ -	$ 733,243	$ 65,326	$ 7,695	$ 22,608	$ 36,550				$ 948,091
Inventory Finance Charge	$ 118	$ 139	$ 174	$ 213	$ 230	$ 180	$ 102	$ 68	$ 78	$ 187	$ 335	$ 533				$ 2,357
Subtotal - Other Commodity	$ (3,959)	$ (13,634)	$ 9,890	$ 471,953	$ 423,507	$ 902,154	$ 703,023	$ 176,053	$ (302,746)	$ (6,361)	$ 24,460	$ 40,012				$ 2,424,351
Sales for Resale Estimates	$ -	$ -	$ (33,146)	$ (169,638)	$ (151,331)	$ (168,932)	$ (942,629)	$ (389,998)	$ (13,782)	$ -	$ -	$ -				$ (1,869,456)
Sales for Resale Reversals	$ -	$ -	$ -	$ 33,146	$ 169,638	$ 151,331	$ 168,932	$ 942,629	$ 389,998	$ 13,782	$ -	$ -				$ 1,869,456
Subtotal - Estimates	$ -	$ -	$ (33,146)	$ (136,492)	$ 18,306	$ (17,601)	$ (773,697)	$ 552,630	$ 376,216	$ 13,782	$ -	$ -				$ -
Total Commodity Costs	$ 332,885	$ 431,782	$ 803,419	$ 1,737,238	$ 3,466,900	$ 5,395,691	$ 3,874,419	$ 2,576,591	$ 1,355,432	$ 1,076,211	$ 792,012	$ 561,952	$ 910,677	$ 1,076,126	$ 1,787,068	$ 26,178,403
	$ 332,885	$ 431,782	$ 803,419	$ 1,737,238	$ 3,466,900	$ 5,395,691	$ 3,874,419	$ 2,576,591	$ 1,355,432	$ 1,076,211	$ 792,012	$ 561,952				

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 4: PURCHASED GAS COSTS
August 2021 - October 2022

Demand Costs	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Estimated(1) Aug-22	Estimated(1) Sep-22	Estimated(1) Oct-22	Total
Pipeline Reservation																
Alberta Northeast	$ 5,836	$ 4,195	$ 4,381	$ 3,926	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -				$ 18,337
Algonquin	$ 189,780	$ 189,780	$ 189,784	$ 189,784	$ 188,762	$ 190,281	$ 190,257	$ 190,105	$ 190,101	$ 190,248	$ 182,497	$ 190,295				$ 2,271,674
Emera	$ 428,069	$ 425,072	$ 437,606	$ 424,971	$ 415,710	$ 428,192	$ 422,117	$ 431,121	$ 427,337	$ 422,750	$ 418,881	$ 420,526				$ 5,102,352
Emera Energy Services LLC	$ -	$ -	$ 5,164	$ 2,102	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -				
Granite State	$ 179,428	$ 188,483	$ 188,436	$ 295,526	$ 295,526	$ 295,526	$ 295,526	$ 295,526	$ 295,526	$ 188,943	$ 188,943	$ 188,943				$ 2,896,332
Iroquois	$ 14,060	$ 14,060	$ 14,060	$ 14,060	$ 14,098	$ 14,098	$ 14,098	$ 14,098	$ 14,098	$ 14,098	$ 14,098	$ 14,098				$ 169,023
Maritimes	$ 41,033	$ 41,033	$ 40,816	$ 40,231	$ 41,144	$ 41,144	$ 41,144	$ 41,144	$ 41,144	$ 41,144	$ 41,144	$ 41,144				
Portland	$ 393,492	$ 393,493	$ 385,262	$ 391,390	$ 390,838	$ 393,890	$ 393,890	$ 384,732	$ 393,890	$ 390,838	$ 393,890	$ 390,838				$ 4,696,443
Tennessee	$ 132,065	$ 132,065	$ 132,065	$ 132,065	$ 129,546	$ 129,546	$ 129,546	$ 129,546	$ 129,545	$ 129,546	$ 129,546	$ 129,546				$ 1,564,627
Texas Eastern	$ 2,787	$ 2,793	$ 2,793	$ 2,793	$ 2,801	$ 2,796	$ 2,796	$ 4,570	$ 4,570	$ 4,792	$ 4,792	$ 4,792				$ 43,073
Total Pipeline Reservation	$ 1,386,551	$ 1,390,973	$ 1,400,367	$ 1,496,849	$ 1,478,424	$ 1,495,472	$ 1,489,373	$ 1,490,841	$ 1,496,211	$ 1,382,358	$ 1,373,791	$ 1,380,181				**$ 17,261,390**
Product Demand																
Excelon	$ -	$ -	$ -	$ -	$ 145,596	$ 145,596	$ 145,596	$ 145,596	$ 145,596	$ -	$ -	$ -				$ 727,982
Repsol	$ 327,778	$ 327,778	$ 327,778	$ 327,778	$ 328,660	$ 328,660	$ 328,660	$ 328,660	$ 328,660	$ 328,660	$ 328,660	$ 328,660				$ 3,940,393
Total Product Demand	$ 327,778	$ 327,778	$ 327,778	$ 327,778	$ 474,257	$ 474,257	$ 474,257	$ 474,257	$ 474,257	$ 328,660	$ 328,660	$ 328,660				**$ 4,668,376**
Storage Pipeline Transportation and Demand Reservation																
Emera	$ 96,749	$ 96,749	$ 96,749	$ 96,749	$ 97,010	$ 97,010	$ 97,010	$ 97,010	$ 97,010	$ 97,010	$ 97,010	$ 97,010				$ 1,163,075
Tennessee	$ 4,169	$ 4,169	$ 4,169	$ 4,169	$ 4,087	$ 4,087	$ 4,087	$ 4,087	$ 4,087	$ 4,087	$ 4,087	$ 4,087				$ 49,369
Total Storage & Demand Reservation	$ 100,918	$ 100,918	$ 100,918	$ 100,918	$ 101,096	$ 101,096	$ 101,096	$ 101,096	$ 101,096	$ 101,096	$ 101,096	$ 101,096				**$ 1,212,444**
Demand Cost Estimates	$ 1,358,704	$ 1,353,020	$ 1,368,022	$ 1,522,892	$ 1,505,894	$ 1,516,102	$ 1,503,274	$ 1,511,785	$ 983,476	$ 978,047	$ 981,815	$ 975,293				$ 15,558,325
Demand Cost Reversals	$ (1,361,208)	$ (1,358,704)	$ (1,353,020)	$ (1,368,022)	$ (1,522,892)	$ (1,505,894)	$ (1,516,102)	$ (1,503,274)	$ (1,511,785)	$ (983,476)	$ (978,047)	$ (981,815)				$ (15,944,240)
Subtotal	$ (2,504)	$ (5,684)	$ 15,002	$ 154,870	$ (16,999)	$ 10,208	$ (12,828)	$ 8,511	$ (528,308)	$ (5,429)	$ 3,768	$ (6,522)				**$ (385,915)**
Capacity Release(2)	$ (713,889)	$ (715,524)	$ (715,070)	$ (732,389)	$ (712,179)	$ (727,500)	$ (726,347)	$ (708,972)	$ (729,577)	$ (1,078,405)	$ (1,082,634)	$ (1,074,141)				$ (9,716,627)
Company Managed	$ -	$ (24,425)	$ -	$ (24,134)	$ (54,780)	$ (55,644)	$ -	$ (109,596)	$ (55,718)	$ (55,816)	$ (10,831)	$ (10,740)				
Other A&G Allowance	$ -	$ -	$ -	$ 77,267	$ 77,267	$ 77,267	$ 77,267	$ 77,267	$ 77,267	$ -	$ -	$ -				$ 463,602
Local Production and Storage Allowance	$ 18,154	$ 18,154	$ 18,154	$ 79,351	$ 79,351	$ 79,351	$ 79,351	$ 79,351	$ 79,351	$ 19,475	$ 19,475	$ 19,475				$ 588,992
Conversion & Re-entry Fees	$ (1)	$ (2)	$ (3)	$ (4)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -				$ (9)
Fuel Tax Recovery	$ -	$ -	$ -	$ -	$ 622	$ -	$ -	$ -	$ -	$ -	$ -	$ 3,458				$ 4,080
Outage Replacement Costs	$ -	$ -	$ -	$ 7,240	$ -	$ -	$ -	$ -	$ -	$ 335	$ -	$ -				
Total Indirect Demand Costs	$ (695,736)	$ (721,798)	$ (696,918)	$ (592,668)	$ (609,719)	$ (626,525)	$ (569,729)	$ (661,950)	$ (628,677)	$ (1,114,411)	$ (1,073,990)	$ (1,061,949)				**$ (9,054,069)**
Estimates - Cap Release & Comp Managed	$ (9,294)	$ (9,117)	$ (9,017)	$ (51,780)	$ (52,644)	$ (51,807)	$ (51,789)	$ (52,718)	$ (52,816)	$ (7,831)	$ (7,740)	$ (7,842)				$ (364,394)
Reversals - Cap Release & Comp Managed	$ 9,131	$ 9,294	$ 9,117	$ 9,017	$ 51,780	$ 52,644	$ 51,807	$ 51,789	$ 52,718	$ 52,816	$ 7,831	$ 7,740				$ 365,683
Subtotal	**$ (164)**	**$ 178**	**$ 99**	**$ (42,763)**	**$ (864)**	**$ 836**	**$ 18**	**$ (929)**	**$ (97)**	**$ 44,985**	**$ 91**	**$ (102)**				**$ 1,289**
Annual Demand Costs	**$ 1,116,843**	**$ 1,092,365**	**$ 1,147,247**	**$ 1,444,985**	**$ 1,426,195**	**$ 1,455,344**	**$ 1,482,188**	**$ 1,411,825**	**$ 914,481**	**$ 737,258**	**$ 733,417**	**$ 741,365**	**$ 741,365**	**$ 741,365**	**$ 741,365**	**$ 15,927,607**
Total Gas Costs	$ 1,449,728	$ 1,524,147	$ 1,950,666	$ 3,182,223	$ 4,893,095	$ 6,851,035	$ 5,356,607	$ 3,988,417	$ 2,269,913	$ 1,813,469	$ 1,525,429	$ 1,303,316	$ 1,652,041	$ 1,817,491	**$ 2,528,433**	**$ 42,106,010**
	$ 1,098,690	$ 1,074,211	$ 1,129,093	$ 1,288,367	$ 1,269,577	$ 1,298,726	$ 1,325,570	$ 1,255,207	$ 757,863	$ 717,784	$ 713,942	$ 721,890				
	$ 18,154	**$ 18,154**	**$ 18,154**	**$ 156,619**	**$ 156,619**	**$ 156,619**	**$ 156,619**	**$ 156,619**	**$ 156,619**	**$ 19,475**	**$ 19,475**	**$ 19,475**				
	$ (0)	**$ 0**	**$ 0**	**$ (1)**	**$ (1)**	**$ (1)**	**$ (1)**	**$ (1)**	**$ (1)**	**$ (0)**	**$ (0)**	**$ (0)**				

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices
(2) Includes Asset Management Agreement Revenue

REDACTED

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - UNITS
August 2021 - October 2022

Indicates Confidential Data

													-----Estimated[1]-----			
Commodity Volumes:	**Aug-21**	**Sep-21**	**Oct-21**	**Nov-21**	**Dec-21**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Total**
Citadel Energy	[redacted]															[redacted]
DTE Energy	[redacted]															[redacted]
Emera Energy Services Corp.	[redacted]															[redacted]
Repsol	[redacted]															[redacted]
Shell	[redacted]															[redacted]
Subtotal - Commodity Supply	[redacted]															[redacted]
Transportation Volumes	[redacted]															[redacted]
Granite	[redacted]															[redacted]
Emera	[redacted]															[redacted]
Emera Energy Services	[redacted]															[redacted]
Maritimes	[redacted]															[redacted]
Tennessee	[redacted]															[redacted]
Subtotal - Commodity Transportation	[redacted]															[redacted]
Commodity Volume Estimates	[redacted]															[redacted]
Commodity Volume Reversals	[redacted]															[redacted]
Subtotal - Estimates	[redacted]															[redacted]
Subtotal - Supply	[redacted]															[redacted]
Withdrawal - Underground Storage	[redacted]															[redacted]
ATV Reconciliation Charges	[redacted]															[redacted]
Off System Sales	[redacted]															[redacted]
Net OBA Adjustment	[redacted]															[redacted]
Company Managed	[redacted]															[redacted]
LNG Withdrawal / Boiloff	[redacted]															[redacted]
Supplier Balancing	[redacted]															[redacted]
Inventory Finance Charge	[redacted]															[redacted]
Subtotal - Other Commodity	[redacted]															[redacted]
Sales for Resale Estimates	[redacted]															[redacted]
Sales for Resale Reversals	[redacted]															[redacted]
Subtotal - Estimates	[redacted]															[redacted]
Total Commodity Volumes	[redacted]												109,042	120,812	236,943	[redacted]

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

REDACTED

FORM III
Schedule 4

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
COST OF GAS ADJUSTMENT - FORM III, Schedule 4 - IN COST PER UNIT
August 2021 - October 2022

Indicates Confidential Data

													-----------------------Estimated[1]--------------------			
Commodity Costs per Unit:	**Aug-21**	**Sep-21**	**Oct-21**	**Nov-21**	**Dec-21**	**Jan-22**	**Feb-22**	**Mar-22**	**Apr-22**	**May-22**	**Jun-22**	**Jul-22**	**Aug-22**	**Sep-22**	**Oct-22**	**Total**
Citadel	[redacted]															[redacted]
DTE Energy																
Emera Energy Services Corp.													$ -	$ -	$ -	
Repsol																
Shell																
#REF!																
#REF!																
Subtotal - Commodity Supply													n/a	n/a	n/a	
Granite																
Emera																
Maritimes																
Tennessee																
Subtotal - Commodity Transportation													n/a	n/a	n/a	
Commodity Cost Estimates																
Commodity Cost Reversals																
Subtotal - Estimates													n/a	n/a	n/a	
Subtotal - Supply																
Withdrawal - Underground Storage																
ATV Reconciliation Charges																
Off System Sales																
Net OBA Adjustment																
Company Managed																
LNG Withdrawal / Boiloff																
Supplier Balancing																
Inventory Finance Charge																
Subtotal - Other Commodity													n/a	n/a	n/a	
Off System Sales Estimates																
Off System Sales Reversals																
Subtotal - Estimates																
Total Commodity Costs per unit													n/a	n/a	n/a	

(1) Monthly estimates provided in Table 2 of Northern 's August 2022 Monthly Cost of Gas Report, submitted in DG 21-131 on August 12, 2022. Estimates updated for September 7, 2022 NYMEX prices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
2021-22 ANNUAL COG RECONCILIATION
SCHEDULE 5: PURCHASED AND MADE VOLUMES
August 2020 - July 2021

New Hampshire	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Total
Throughput IN													
BTU Factor	1.03	1.031	1.032	1.035	1.038	1.045	1.041	1.032	1.033	1.033	1.03	1.03	
GST Meter Throughput (MCF)	340,320	351,408	459,510	748,758	889,474	1,261,618	1,008,910	886,100	626,997	433,341	355,913	319,407	7,681,756
Salem Meter (MCF)	13,564	14,462	21,702	46,909	65,683	93,668	70,882	57,250	35,197	19,773	14,624	12,447	466,161
GST Meter Throughpurt (DTH)	350,530	362,302	474,214	774,965	923,274	1,318,391	1,050,275	914,455	647,688	447,641	366,590	328,989	7,959,314
Salem Meter (DTH)	13,971	14,910	22,396	48,551	68,179	97,883	73,788	59,082	36,359	20,426	15,063	12,820	483,428
LNG/Propane													-
Total Throughput	364,501	377,212	496,611	823,515	991,453	1,416,274	1,124,063	973,537	684,046	468,067	381,653	341,810	8,442,742
Throughput OUT													
Residential Gas													
Charged	35,197	34,821	43,485	116,661	243,350	336,974	360,490	293,847	176,136	108,521	48,742	36,040	1,834,264
Uncharged Current	17,907	17,818	27,656	114,951	156,101	219,026	173,908	112,639	91,632	61,708	24,159	19,923	1,037,428
Uncharged Prior	(18,971)	(17,907)	(17,818)	(27,656)	(114,951)	(156,101)	(219,026)	(173,908)	(112,639)	(91,632)	(61,708)	(24,159)	(1,036,476)
Total Residential Gas	**34,133**	**34,732**	**53,323**	**203,956**	**284,500**	**399,899**	**315,372**	**232,578**	**155,129**	**78,597**	**11,193**	**31,804**	1,835,216
Interruptible				-	-	-	-	-	-	-	-	-	-
<u>*Commercial/Industrial Gas*</u>													
Charged	57,552	58,183	70,080	148,143	280,843	390,268	414,781	330,019	206,545	130,581	69,713	56,034	2,212,742
Uncharged Current	29,281	29,772	44,570	121,670	172,688	242,037	203,039	134,006	111,982	74,252	34,553	30,976	1,228,826
Uncharged Prior	(38,707)	(29,281)	(29,772)	(44,570)	(121,670)	(172,688)	(242,037)	(203,039)	(134,006)	(111,982)	(74,252)	(34,553)	(1,236,557)
Total C/I Gas	**48,126**	**58,674**	**84,878**	**225,243**	**331,861**	**459,617**	**375,783**	**260,986**	**184,521**	**92,851**	**30,014**	**52,457**	2,205,011
Transportation													
Charged	273,159	273,788	300,567	365,727	399,260	494,559	475,783	466,008	382,231	327,505	278,593	252,114	4,289,294
Uncharged Current	92,203	90,530	131,612	191,535	202,192	241,728	191,636	158,391	160,567	130,740	88,236	88,983	1,768,353
Uncharged Prior	(93,246)	(92,203)	(90,530)	(131,612)	(191,535)	(202,192)	(241,728)	(191,636)	(158,391)	(160,567)	(130,740)	(88,236)	(1,772,616)
Total Transportation	**272,116**	**272,115**	**341,649**	**425,650**	**409,917**	**534,095**	**425,691**	**432,763**	**384,407**	**297,678**	**236,089**	**252,861**	**4,285,031**
Company Use	**106**	**116**	**83**	**64**	**167**	**298**	**1,231**	**423**	**834**	**88**	**389**	**924**	**4,724**
Total Throughput OUT	**354,481**	**365,637**	**479,933**	**854,913**	**1,026,445**	**1,393,909**	**1,118,077**	**926,750**	**724,891**	**469,214**	**277,685**	**338,046**	**8,329,982**
Total Throughput IN	**364,501**	**377,212**	**496,611**	**823,515**	**991,453**	**1,416,274**	**1,124,063**	**973,537**	**684,046**	**468,067**	**381,653**	**341,810**	**8,442,742**
Difference IN/OUT	10,019	11,575	16,678	(31,398)	(34,992)	22,365	5,987	46,787	(40,845)	(1,147)	103,968	3,764	112,761
%													1.34%

Attachment A

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
DEFERRED WORKING CAPITAL ALLOWANCE ON PURCHASED GAS COSTS
August 2021 - October 2022

ANNUAL BALANCE SEASON - Acct 173

		BEGINNING BALANCE	WORKING CAP ALLOWANCE (1)	WORKING CAP PERCENTAGE	WORKING CAP COLLECTIONS	WORKING CAP DEFERRED	ENDING BALANCE	AVE MONTHLY BALANCE	INTEREST RATE	INTEREST	ENDING BAL W/ INTEREST
		A	B	C	D	E = B + D	F = A + E	G = (A + F) / 2	H	I = G * (H / 12)	K = F + I + J
August 2021	$	(7,882)									
Adjustment	$	6									
August 2021	$	(7,876)	1,293	0.0892%	620	1,913	(5,963)	(6,919)	3.25%	(19)	(5,981)
September	$	(5,981)	1,360	0.0892%	616	1,976	(4,006)	(4,994)	3.25%	(14)	(4,019)
October	$	(4,019)	1,740	0.0892%	899	2,639	(1,380)	(2,700)	3.25%	(7)	(1,388)
November	$	(1,388)	2,839	0.0892%	(1,722)	1,117	(271)	(829)	3.25%	(2)	(273)
December	$	(273)	4,365	0.0892%	(3,523)	842	569	148	3.25%	0	569
January 2022	$	569	6,111	0.0892%	(4,862)	1,249	1,818	1,194	3.25%	3	1,822
February	$	1,822	4,778	0.0892%	(4,275)	503	2,325	2,073	3.25%	6	2,331
March	$	2,331	3,558	0.0892%	(3,059)	499	2,829	2,580	3.25%	7	2,836
April	$	2,836	2,025	0.0892%	(2,009)	16	2,852	2,844	3.25%	8	2,860
May	$	2,860	*1,618*	0.0892%	*(462)*	1,155	4,016	3,438	3.25%	9	4,025
June	$	4,025	*1,361*	0.0892%	*(116)*	1,245	5,270	4,647	3.25%	13	5,283
July	$	5,283	*1,431*	0.1098%	*(220)*	1,211	6,493	5,888	4.00%	20	6,513
Estimated August	$	6,513	*1,814*	0.1098%	*(1,100)*	714	7,227	6,870	3.25%	19	7,245
Estimated September	$	7,245	*1,996*	0.1098%	*(1,200)*	796	8,041	7,643	3.25%	21	8,062
Estimated October	$	8,062	*3,540*	0.1400%	*(2,200)*	1,340	9,402	8,732	3.25%	24	9,425

(1) Working Capital Allowance calculated by taking monthly Total Gas Costs from Schedule 4, Page 2, and multiplying by (9.30/366)* prime interest rate.

Winter Season Sales Percentage		80.46%
Summer Season Sales Percentage		19.54%
Reconciliation Allocated to Winter Season	$	7,583
Reconciliation Allocated to Summer Season	$	1,842

Attachment B

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
BAD DEBT EXPENSE - CALCULATION OF COLLECTION ALLOWANCE
August 2021 - October 2022

ANNUAL BALANCE- Acct 173

	BEGINNING BALANCE	ACUTAL BAD DEBT	BAD DEBT COLLECTIONS	DEFERRED BALANCE	ENDING BALANCE	AVE MO BALANCE	INTEREST RATE	INTEREST	END BAL W/ INTEREST
	A	B	C	D = B + C	E = A + D	F = (A + E) / 2	G	H = (F *G) / 12	J = E + H + I
August 2021	($96,653)	28,289	(1,498)	26,791	(69,862)	(83,258)	3.25%	(225)	(70,088)
September	($70,088)	24,580	(1,487)	23,093	(46,995)	(58,541)	3.25%	(159)	(47,153)
October	($47,153)	5,278	(2,261)	3,017	(44,136)	(45,645)	3.25%	(124)	(44,260)
November	($44,260)	8,836	(8,894)	(58)	(44,318)	(44,289)	3.25%	(120)	(44,438)
December	($44,438)	14,798	(12,332)	2,465	(41,973)	(43,206)	3.25%	(117)	(42,090)
January 2022	($42,090)	(10,232)	(17,035)	(27,267)	(69,357)	(55,723)	3.25%	(151)	(69,508)
February	($69,508)	4,559	(14,971)	(10,412)	(79,920)	(74,714)	3.25%	(202)	(80,123)
March	($80,123)	10,087	(10,718)	(631)	(80,754)	(80,438)	3.25%	(218)	(80,972)
April	($80,972)	3,792	(7,032)	(3,240)	(84,212)	(82,592)	3.25%	(224)	(84,435)
May	($84,435)	3,982	835	4,817	(79,618)	(82,027)	3.25%	(222)	(79,840)
June	($79,840)	11,494	(3)	11,490	(68,350)	(74,095)	3.25%	(201)	(68,551)
July	($68,551)	15,551	50	15,601	(52,950)	(60,750)	4.00%	(203)	(53,152)
Estimated August	($53,152)	15,000	(850)	14,150	(39,002)	(46,077)	3.25%	(125)	(39,127)
Estimated September	($39,127)	15,000	(875)	14,125	(25,002)	(32,065)	3.25%	(87)	(25,089)
Estimated October	($25,089)	15,000	(1,000)	14,000	(11,089)	(18,089)	3.25%	(49)	(11,138)

Winter Season Allocation		95.00%
Summer Season Allocation		5.00%
Reconciliation Allocated to Winter Season	$	(10,581)
Reconciliation Allocated to Summer Season	$	(557)

Northern Utilities, Inc. - New Hampshire Division
Environmental Response Costs
May 2021 - October 2022

		Beginning Balance		Firm Sales and Transportation (therms)	ERC Rate Recoveries /Passback		Current ERC Recoveries/ Passbacks	Ending Balance
May 2021	(act)	$ 124,683		4,655,705	$ 0.0061		$ 28,409	$ 96,273.40
June 2021	(act)	$ 96,273		2,985,287	$ 0.0061		$ 18,225	$ 78,048.39
July 2021	(act)	$ 78,048		2,992,333	$ 0.0061		$ 18,264	$ 59,784.48
August 2021	(act)	$ 59,784		2,739,797	$ 0.0061		$ 16,722	$ 43,062.12
September 2021	(act)	$ 43,062		2,699,225	$ 0.0061		$ 16,475	$ 26,586.85
October 2021	(act)	$ 26,587		3,205,050	$ 0.0061		$ 19,518	$ 7,068.90
November 2021	(act)	$ 439,663	(1)	5,403,127	$ 0.0059	(2)	$ 31,069	$ 408,593.38
December 2021	(act)	$ 408,593		8,703,876	$ 0.0056		$ 48,743	$ 359,849.98
January 2022	(act)	$ 359,850		11,396,267	$ 0.0056		$ 63,820	$ 296,030.31
February 2022	(act)	$ 296,030		11,590,946	$ 0.0056		$ 64,913	$ 231,117.39
March 2022	(act)	$ 231,117		9,836,237	$ 0.0056		$ 55,086	$ 176,030.99
April 2022	(act)	$ 176,031		6,649,114	$ 0.0056		$ 37,236	$ 138,795.15
May 2022	(act)	$ 138,795		4,690,240	$ 0.0056		$ 26,265	$ 112,529.85
June 2022	(act)	$ 112,530		2,964,732	$ 0.0056		$ 16,612	$ 95,917.63
July 2022	(act)	$ 95,918		2,992,333	$ 0.0056		$ 14,181	$ 81,736.95
August 2022	(est)	$ 81,737		2,844,678	$ 0.0056		$ 15,930	$ 65,807
September 2022	(est)	$ 65,807		2,905,960	$ 0.0056		$ 16,273	$ 49,533
October 2022	(est)	$ 49,533		3,974,739	$ 0.0056		$ 22,259	$ 27,275

(1) November Beginning Balance includes $421,540 amortization from all prior years at 1/7 of annual costs. (See Section 4.7 of Tariff.)

(2) November Current ERC Recoveries/Passbacks reflect an Average ERC Rate based on actual Firm Sales and Transportation (therms) at $0.0056 and actual Firm Sales and Transportation (therms) at $0.0061.

Attachment D

NORTHERN UTILITIES
NEW HAMPSHIRE DIVISION
RLIARA Reconciliation
May 2021 - October 2022

		Beginning Balance	Program Costs	Regulatory Assessments	RLIARA Recoveries	Ending Balance	Average Monthly Balance	Interest Rate	Interest	Ending Balance w/Interest
		A	B	C	D	E = A+B+C-D	F = (A+E)/2	G	H = F*(G/12)	I = E+H
May 2021	Actual	$ 46,388	$ 16,330	$ 6,893	$ 20,483	$ 49,127	$ 47,757	3.25%	$ 129	$ 49,257
June 2021	Actual	$ 49,257	$ 756	$ 6,893	$ 13,128	$ 43,777	$ 46,517	3.25%	$ 126	$ 43,903
July 2021	Actual	$ 43,903	$ -	$ 6,893	$ 13,163	$ 37,633	$ 40,768	3.25%	$ 110	$ 37,744
August 2021	Actual	$ 37,744	$ -	$ 6,893	$ 12,052	$ 32,585	$ 35,164	3.25%	$ 95	$ 32,680
September 2021	Actual	$ 32,680	$ -	$ 6,893	$ 11,873	$ 27,700	$ 30,190	3.25%	$ 82	$ 27,782
October 2021	Actual	$ 27,782	$ -	$ 6,893	$ 14,187	$ 20,488	$ 24,135	3.25%	$ 65	$ 20,554
November 2021	Actual	$ 20,554	$ 6,085	$ 6,893	$ 29,823	$ 3,709	$ 12,131	3.25%	$ 33	$ 3,742
December 2021	Actual	$ 3,742	$ 49,453	$ (17,524)	$ 52,223	$ (16,552)	$ (6,405)	3.25%	$ (17)	$ (16,570)
January 2022	Actual	$ (16,570)	$ 59,907	$ 15,279	$ 68,394	$ (9,778)	$ (13,174)	3.25%	$ (36)	$ (9,813)
February 2022	Actual	$ (9,813)	$ 65,169	$ 15,279	$ 69,548	$ 1,087	$ (4,363)	3.25%	$ (12)	$ 1,075
March 2022	Actual	$ 1,075	$ 69,903	$ 15,279	$ 59,016	$ 27,242	$ 14,159	3.25%	$ 38	$ 27,280
April 2022	Actual	$ 27,280	$ 49,438	$ 15,279	$ 39,734	$ 52,263	$ 39,772	3.25%	$ 108	$ 52,371
May 2022	Actual	$ 52,371	$ 23,931	$ -	$ 19,779	$ 56,523	$ 54,447	3.25%	$ 147	$ 56,671
June 2022	Actual	$ 56,671	$ -	$ -	$ 9,792	$ 46,879	$ 51,775	3.25%	$ 140	$ 47,019
July 2022	Actual	$ 47,019	$ -	$ -	$ 8,335	$ 38,684	$ 42,852	4.00%	$ 143	$ 38,827
August 2022	Est.	$ 38,827	$ -	$ (61,116)	$ 9,387	$ (31,677)	$ 3,575	4.00%	$ 12	$ (31,665)
September 2022	Est.	$ (31,665)	$ -	$ -	$ 9,590	$ (41,254)	$ (36,460)	4.00%	$ (122)	$ (41,376)
October 2022	Est.	$ (41,376)	$ -	$ -	$ 13,117	$ (54,493)	$ (47,934)	4.00%	$ (160)	$ (54,652)

(1) RLIAP renamed GAPRA and subsequently renamed GAP when Regulatory Assessments were removed to the RAAM.

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS

	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	TOTAL
Forecast Bill Month Sales	90,987	90,776	107,884	342,850	554,368	761,365	806,334	611,422	457,594	270,287	147,721	105,641	4,347,230
Actual Sales	92,750	93,004	113,565	264,805	524,192	727,242	775,272	623,867	382,680	239,103	118,454	92,074	4,047,008
Difference	1,763	2,228	5,681	(78,045)	(30,176)	(34,123)	13,698	12,444	(74,914)	(31,185)	(29,267)	(13,567)	(300,222)
Normal Bill Month Actual Sales	92,750	93,004	130,320	288,219	560,188	741,134	745,200	679,792	406,349	235,589	118,454	92,074	4,183,073
Actual Sales	92,750	93,004	113,565	264,805	524,192	727,242	775,272	623,867	382,680	239,103	118,454	92,074	4,047,008
Weather Variance	-	-	16,755	23,415	35,995	13,892	(30,072)	55,925	23,669	(3,514)	-	-	136,065
Total Variance Excluding Weather (excl weather effect)	1,763	2,228	22,435	(54,630)	5,820	(20,231)	(16,374)	68,370	(51,244)	(34,699)	(29,267)	(13,567)	(164,157)
Variance-difference due to meter count													113,420
-difference in load pattern													(413,641)
Total Sales Variance													(300,222)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE DIVISION
SALES VARIANCE ANALYSIS

	NORMAL MMBtu			METERS		
	2021-22 Forecast	2021-22 Actual	Difference	2021-22 Forecast	2021-22 Actual	Difference
Res Heat	2,006,153	1,809,996	(196,157)	315,704	329,377	13,673
Res General	23,230	24,270	1,039	15,014	15,472	458
Total Res	2,029,383	1,834,265	(195,117)	330,718	344,849	14,131
G-40	972,370	891,276	(81,093)	53,776	56,201	2,425
G-50	148,423	150,543	2,119	8,875	9,154	279
G-41	737,039	670,532	(66,506)	4,942	4,547	(395)
G-51	241,080	256,939	15,859	1,891	1,754	(137)
G-42	145,782	174,692	28,909	131	162	32
G-52	73,153	68,761	(4,392)	29	36	7
Total C & I	2,317,847	2,212,743	(105,104)	69,643	71,854	2,211
Total Company	4,347,230	4,047,008	(300,222)	400,361	416,703	16,342

	NORMAL AVERAGE USE			Change in Sales Due to Change In:			
	2021-22 Forecast	2021-22 Actual	Difference	Meter Count	Load Pattern	Total Chg MMBtu	% Difference
Res Heat	6.35	5.50	(0.86)	86,886	(283,042)	(196,157)	-9.78%
Res General	1.55	1.57	0.02	709	331	1,039	4.47%
Total Res	7.90	7.06	(0.84)	87,594	(282,712)	(195,117)	-9.61%
G-40	18.08	15.86	(2.22)	43,844	(124,937)	(81,093)	-8.34%
G-50	16.72	16.45	(0.28)	4,662	(2,542)	2,119	1.43%
G-41	149.14	147.47	(1.67)	(58,909)	(7,597)	(66,506)	-9.02%
G-51	127.52	146.49	18.97	(17,407)	33,265	15,859	6.58%
G-42	1,117.10	1,078.34	(38.76)	35,189	(6,279)	28,909	19.83%
G-52	2,544.45	1,910.03	(634.42)	18,447	(22,839)	(4,392)	-6.00%
Total C & I	33.28	30.79	(2.49)	25,825	(130,930)	(105,104)	-4.53%
Total Company	10.86	9.71	(1.15)	113,420	(413,641)	(300,222)	-6.91%

Northern Utilities, Inc.
Winter and Summer Season Reconciliations

Section A

	April 30, 2022 COG Balance - All components		
1	Actual	-$5,548,856	Company Analysis
2	Estimated	-$5,202,006	Table 3 - Monthly COG Reports
3			
4	Total Over-collection - All Components	-$346,850	LN 2 - LN 1
5	Less Working Capital Balance	2,860	Attachment A
6	Less Bad Debt Balance	-$84,435	Attachment B
7			
8	Demand & Commodity Over-collection	-$265,275	LN 4 - Ln 5 - LN 6
9			
10	AMA Adjustment	-$2,247,007	LN 26
11			
12	Interest	-$7,490	LN 20 - Section B October
13			
14	Winter Demand & Commodity Balance	-$2,519,772	LN 8 + LN 10 + LN 12
15			
16	Annual Reconciliation Balance	-$2,419,538	Schedule 1
17			
18	Summer Reconciliation Balance	$100,234	LN 16 - LN 14
19			
20	Monthly AMA Revenue		
21	April 21 to March 22	$339,731	Annual Revenue / 12
22	April 22 to March 23	$714,232	Annual Revenue / 12
23			
24	Monthly Increase in AMA Revenue	$374,501	LN 22- LN 21
25			
26	AMA revenue impact May to Oct	$2,247,007	LN 24 * 6

Section B
AMA Adjustment & Interest

	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Total
Starting balance	$0.00	$1,014.27	$2,028.55	$3,276.89	$4,525.22	$5,773.56	
AMA Adjustment	$374,501	$374,501	$374,501	$374,501	$374,501	$374,501	$2,247,007
Interest Rate	3.25%	3.25%	4.00%	4.00%	4.00%	5.50%	
Monthly Interest	$1,014.27	$1,014.27	$1,248.34	$1,248.34	$1,248.34	$1,716.46	
Total interest	$1,014.27	$2,028.55	$3,276.89	$4,525.22	$5,773.56	$7,490.02	

Northern Utilities Inc.
Calculation of Bad Debt Expense

1	**Actual Bad Debt Expense 12 Months Ended July 31, 2022**				
2					
3	Total		$	349,102	Company Analysis
4	Distribution		$	228,101	Company Analysis
5	Distribution (%)			65.34%	LN 4 / LN 3
6	Non-Distribution		$	121,001	Company Analysis
7	Non-Distribution(%)			34.66%	LN 6 / LN 3
8					
9	Winter Demand Cost %			87.68%	Attachment NUI-CAK-2, LN 80
10	Summer Demand Cost %			12.32%	Attachment NUI-CAK-2, LN 80
11					
12	**Forecast Bad Debt Expense 12 Months Ended December 31, 2023**				*
13					
14	Annual Total		$	400,000	Company Forecast
15	Annual Non-Distribution		$	138,643	LN 14 * LN 7
16	Winter Non-Distribution		**$**	**121,564**	LN 15 * LN 9
17	Summer Non-Distribution		**$**	**17,079**	LN 15 * LN 10

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-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
2	Residential Heat & Non Heat		2,220,775	3,207,847	3,784,334	3,243,890	2,759,086	1,590,808	788,321	510,680	436,331	439,981	488,035	985,408
3	Sales HLF Classes		382,966	553,184	652,597	559,399	475,796	274,330	476,611	308,752	263,801	266,008	295,061	595,768
4	Sales LLF Classes		2,088,065	3,016,150	3,558,187	3,050,039	2,594,207	1,495,743	598,639	387,802	331,343	334,115	370,606	748,304
5	Total		4,691,806	6,777,181	7,995,118	6,853,328	5,829,089	3,360,882	1,863,572	1,207,233	1,031,474	1,040,103	1,153,702	2,329,480
6	Rates													
7	Residential Heat & Non Heat CGA		$1.1357	$1.1357	$1.1357	$1.1357	$1.1357	$1.1357	$0.6927	$0.6927	$0.6927	$0.6927	$0.6927	$0.6927
8	Sales HLF Classes CGA		$1.0604	$1.0604	$1.0604	$1.0604	$1.0604	$1.0604	$0.6342	$0.6342	$0.6342	$0.6342	$0.6342	$0.6342
9	Sales LLF Classes CGA		$1.1496	$1.1496	$1.1496	$1.1496	$1.1496	$1.1496	$0.7394	$0.7394	$0.7394	$0.7394	$0.7394	$0.7394
10	Revenues													
11	Residential Heat & Non Heat		$ (2,522,134)	$ (3,643,152)	$ (4,297,868)	$ (3,684,086)	$ (3,133,494)	$ (1,806,681)	$ (546,070)	$ (353,748)	$ (302,246)	$ (304,775)	$ (338,062)	$ (682,592)
12	Sales HLF Classes		$ (406,097)	$ (586,596)	$ (692,014)	$ (593,187)	$ (504,534)	$ (290,900)	$ (302,267)	$ (195,810)	$ (167,303)	$ (168,702)	$ (187,128)	$ (377,836)
13	Sales LLF Classes		$ (2,400,439)	$ (3,467,367)	$ (4,090,492)	$ (3,506,325)	$ (2,982,300)	$ (1,719,507)	$ (442,634)	$ (286,741)	$ (244,995)	$ (247,044)	$ (274,026)	$ (553,296)
14	Total Sales		$ (5,328,671)	$ (7,697,115)	$ (9,080,374)	$ (7,783,598)	$ (6,620,329)	$ (3,817,087)	$ (1,290,971)	$ (836,299)	$ (714,544)	$ (720,521)	$ (799,216)	$ (1,613,724)
15														
16			Winter						Summer					
17	**Gas Costs and Credits**		(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)
18		Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
19	Demand Costs (net of Capacity Assignment)													
20	Pipeline		$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837	$ 617,837
21	Storage		$ 645,439	$ 645,439	$ 645,439	$ 645,439	$ 645,439	$ 701,106	$ 699,734	$ 699,734	$ 699,734	$ 699,734	$ 699,734	$ 699,734
22	On-system Peaking		$ 196,790	$ 196,790	$ 196,790	$ 196,790	$ 196,790	$ 83,527	$ -	$ -	$ -	$ -	$ -	$ -
23	Off-System Peaking		$ 752,299	$ 752,299	$ 752,299	$ 752,299	$ 752,299	$ -	$ -	$ -	$ -	$ -	$ -	$ -
24	Total Demand Costs		$ 2,212,365	$ 2,212,365	$ 2,212,365	$ 2,212,365	$ 2,212,365	$ 1,402,470	$ 1,317,571	$ 1,317,571	$ 1,317,571	$ 1,317,571	$ 1,317,571	$ 1,317,571
25														
26	Asset Management and Capacity Release													
27	NUI AMA Revenue		$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)	$ (1,744,550)
28	NUI Capacity Release								$ -	$ -	$ -	$ -	$ -	$ -
29	NUI AMA Rev & Cap. Release Subtotal													
30	NH AMA Revenue		$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)
31	NH Capacity Release													
32	NH Total Asset Management and Capacity Release		$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)	$ (714,232)
33														
34	Re-entry Rate & Conversion Rate Revenue		$ (1,000)	$ (1,000)	$ (1,000)	$ (1,000)	$ (1,000)		$ -	$ -	$ -	$ -	$ -	$ -
35														
36	Net Demand Costs		$ 1,497,133	$ 1,497,133	$ 1,497,133	$ 1,497,133	$ 1,497,133	$ 688,238	$ 603,339	$ 603,339	$ 603,339	$ 603,339	$ 603,339	$ 603,339
37														
38	NUI Commodity Costs													
39	NUI Total Pipeline Volumes		577,049	1,131,026	1,155,723	1,098,878	1,043,990	1,029,309	576,044	394,175	355,581	356,908	382,828	657,694
40	Pipeline Costs Modeled in Sendout™		$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675
41	NYMEX Price Used for Forecast		$ 7.9010	$ 8.0350	$ 8.1150	$ 7.8180	$ 6.7050	$ 5.3520	$ 5.2190	$ 5.2780	$ 5.3400	$ 5.3570	$ 5.3450	$ 5.4110
42	NYMEX Price Used for Update		$ 7.9010	$ 8.0350	$ 8.1150	$ 7.8180	$ 6.7050	$ 5.3520	$ 5.2190	$ 5.2780	$ 5.3400	$ 5.3570	$ 5.3450	$ 5.4110
43	Increase/(Decrease) NYMEX Price		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
44	Increase/(Decrease) in Pipeline Costs		$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
45	Updated Pipeline Costs		$ 4,653,001	$ 10,571,190	$ 13,045,845	$ 12,266,039	$ 8,070,275	$ 5,398,884	$ 2,798,684	$ 1,860,832	$ 1,715,991	$ 1,710,505	$ 1,714,809	$ 3,185,675
46	New Hampshire Allocated Percentage		37.57%	38.38%	38.18%	37.58%	36.63%	32.91%	32.56%	30.79%	29.14%	29.27%	30.29%	35.66%
47	NH Updated Pipeline Costs		$ 1,747,920	$ 4,057,370	$ 4,981,153	$ 4,610,118	$ 2,956,075	$ 1,776,991	$ 911,334	$ 572,880	$ 500,037	$ 500,749	$ 519,400	$ 1,136,170
48														
49	NH Peaking Volumes													
50	NH Peaking Costs Modeled in Sendout													
51	Change in NYMEX Price													
52	Change in Peaking Costs													
53	NH Updated Peaking Costs													
54														
55	NH Commodity Costs													
56	Pipeline		$ 1,747,920	$ 4,057,370	$ 4,981,153	$ 4,610,118	$ 2,956,075	$ 1,776,991	$ 911,334	$ 572,880	$ 500,037	$ 500,749	$ 519,400	$ 1,136,170
57	Storage		$ 1,899,820	$ 1,819,825	$ 2,116,343	$ 2,008,342	$ 1,530,128	$ -	$ -	$ -	$ -	$ -	$ -	$ -
58	Peaking		$ 12,665	$ 207,187	$ 1,492,494	$ 374,558	$ 38,253	$ 31,486	$ 28,957	$ 26,294	$ 25,718	$ 25,837	$ 25,362	$ 30,741
59	Total Commodity Costs		$ 3,660,406	$ 6,084,382	$ 8,589,990	$ 6,993,018	$ 4,524,456	$ 1,808,478	$ 940,290	$ 599,174	$ 525,755	$ 526,586	$ 544,761	$ 1,166,911
60	Inventory Finance Charge		$ 799	$ 1,243	$ 1,507	$ 1,281	$ 1,038	$ 514	$ -	$ -	$ -	$ -	$ -	$ -
61														
62	**Total Anticipated Direct Cost of Gas**		$ 5,158,338	$ 7,582,758	$ 10,088,629	$ 8,491,433	$ 6,022,627	$ 2,497,230	$ 1,543,629	$ 1,202,513	$ 1,129,093	$ 1,129,924	$ 1,148,100	$ 1,770,249

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

	Sales Revenues	Winter	Summer	Prior Period	Total
1	Volumes				
2	Residential Heat & Non Heat				20,455,496
3	Sales HLF Classes				5,104,273
4	Sales LLF Classes				18,573,201
5	Total	35,507,405	8,625,565		44,132,969
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				$ (21,614,908)
12	Sales HLF Classes				$ (4,472,374)
13	Sales LLF Classes				$ (20,215,166)
14	Total Sales	$ (40,327,173)	$ (5,975,274)		$ (46,302,447)
15					
16					
17	**Gas Costs and Credits**				
18					Total
19	Demand Costs (net of Capacity Assignment)				
20	Pipeline	$ 3,707,022	$ 3,707,022		$ 7,414,044
21	Storage	$ 3,928,299	$ 4,198,402		$ 8,126,701
22	On-system Peaking	$ 1,067,478	$ -		$ 1,067,478
23	Off-System Peaking	$ 3,761,497	$ -		$ 3,761,497
24	Total Demand Costs	$ 12,464,296	$ 7,905,424		$ 20,369,720
25					
26	Asset Management and Capacity Release				
27	NUI AMA Revenue				$ (20,934,600)
28	NUI Capacity Release				$ -
29	NUI AMA Rev & Cap. Release Subtotal				$ -
30	NH AMA Revenue				$ (8,570,786)
31	NH Capacity Release				$ -
32	NH Total Asset Management and Capacity Release		$ -	$ -	$ (8,570,786)
33					
34	Re-entry Rate & Conversion Rate Revenue	$ (5,000)	$ -		$ (5,000)
35					
36	Net Demand Costs	$ 8,173,903	$ 3,620,031		$ 11,793,935
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				$ 24,270,196
48					
49	NH Peaking Volumes				
50	NH Peaking Costs Modeled in Sendout				
51	Change in NYMEX Price				
52	Change in Peaking Costs				
53	NH Updated Peaking Costs				$ -
54					
55	NH Commodity Costs				
56	Pipeline				$ 24,270,196
57	Storage				$ 9,374,458
58	Peaking				$ 2,319,552
59	Total Commodity Costs	$ 31,660,730	$ 4,303,477		$ 35,964,206
60	Inventory Finance Charge	$ 6,382	$ -		$ 6,382
61					
62	**Total Anticipated Direct Cost of Gas**	$ 39,841,015	$ 7,923,508		$ 47,764,523

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

63			Winter						Summer					
64			(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)	(Forecast)
65		Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23
66	Working Capital													
67	Total Anticipated Direct Cost of Gas		$ 5,158,338	$ 7,582,758	$ 10,088,629	$ 8,491,433	$ 6,022,627	$ 2,497,230	$ 1,543,629	$ 1,202,513	$ 1,129,093	$ 1,129,924	$ 1,148,100	$ 1,770,249
68	Working Capital Percentage		0.1398%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%	0.14%
69	Working Capital Allowance		$ 7,209	$ 10,597	$ 14,099	$ 11,867	$ 8,417	$ 3,490	$ 2,157	$ 1,681	$ 1,578	$ 1,579	$ 1,605	$ 2,474
70	Beginning Period Working Capital Balance		$ 9,425	$ 16,694	$ 27,392	$ 41,649	$ 53,734	$ 62,417	$ 66,201	$ 68,666	$ 70,666	$ 72,571	$ 74,486	$ 76,436
71	End of Period Working Capital Allowance		$ 16,634	$ 27,291	$ 41,491	$ 53,516	$ 62,151	$ 65,907	$ 68,358	$ 70,347	$ 72,243	$ 74,150	$ 76,091	$ 78,910
72	Interest		$ 60	$ 101	$ 158	$ 218	$ 266	$ 294	$ 308	$ 319	$ 327	$ 336	$ 345	$ 356
73	End of period with Interest	$ 9,425	$ 16,694	$ 27,392	$ 41,649	$ 53,734	$ 62,417	$ 66,201	$ 68,666	$ 70,666	$ 72,571	$ 74,486	$ 76,436	$ 79,266
74	Bad Debt													
75	Projected Bad Debt	$ -	$ 20,260.65	$ 20,260.65	$ 20,260.65	$ 20,260.65	$ 20,260.65	$ 20,260.65	$ 2,846.52	$ 2,846.52	$ 2,846.52	$ 2,846.52	$ 2,846.52	$ 2,846.52
76	Beginning Period Bad Debt Balance		$ (11,138)	$ 9,118	$ 29,467	$ 49,909	$ 70,445	$ 91,075	$ 111,799	$ 115,165	$ 118,546	$ 121,942	$ 125,354	$ 128,782
77	End of Period Bad Debt Balance		*$ 9,123*	*$ 29,379*	*$ 49,728*	*$ 70,170*	*$ 90,705*	*$ 111,335*	*$ 114,646*	*$ 118,011*	*$ 121,392*	*$ 124,789*	*$ 128,200*	*$ 131,628*
78	Interest		$ (5)	$ 88	$ 181	$ 275	$ 369	$ 464	$ 519	$ 534	$ 550	$ 565	$ 581	$ 597
79	End of Period Bad Debt Balance with Interest	$ (11,138)	$ 9,118	$ 29,467	$ 49,909	$ 70,445	$ 91,075	$ 111,799	$ 115,165	$ 118,546	$ 121,942	$ 125,354	$ 128,782	$ 132,225
80	Local Production and Storage Capacity		$ 35,756	$ 35,756	$ 35,756	$ 35,756	$ 35,756	$ 35,756	$ -	$ -	$ -	$ -	$ -	$ -
81			$ -	$ -	$ -									
82	Miscellaneous Overhead		$ 82,048	$ 82,048	$ 82,048	$ 82,048	$ 82,048	$ 82,048	$ 19,931	$ 19,931	$ 19,931	$ 19,931	$ 19,931	$ 19,931
83														
84	Gas Cost Other than Bad Debt and Working Capital Over/Under Collection													
85	Beginning Balance Over/Under Collection	$ (2,419,538)	$ (2,419,538)	$ (2,483,276)	$ (2,491,203)	$ (1,373,980)	$ (552,746)	$ (1,036,277)	$ (2,245,835)	$ (1,982,914)	$ (1,604,972)	$ (1,176,852)	$ (751,928)	$ (385,713)
86	Net Costs - Revenues		$ (52,529)	$ 3,448	$ 1,126,060	$ 825,639	$ (479,898)	$ (1,202,053)	$ 272,590	$ 386,145	$ 434,481	$ 429,334	$ 368,815	$ 176,457
87	Ending Balance before Interest		$ (2,472,066)	$ (2,479,829)	$ (1,365,143)	$ (548,341)	$ (1,032,644)	$ (2,238,330)	$ (1,973,245)	$ (1,596,769)	$ (1,170,491)	$ (747,518)	$ (383,112)	$ (209,257)
88	Average Balance		$ (2,445,802)	$ (2,481,553)	$ (1,928,173)	$ (961,161)	$ (792,695)	$ (1,637,304)	$ (2,109,540)	$ (1,789,841)	$ (1,387,732)	$ (962,185)	$ (567,520)	$ (297,485)
89	Interest Rate		5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
90	Interest Expense		$ (11,210)	$ (11,374)	$ (8,837)	$ (4,405)	$ (3,633)	$ (7,504)	$ (9,669)	$ (8,203)	$ (6,360)	$ (4,410)	$ (2,601)	$ (1,363)
91	Ending Balance Incl Interest Expense	$ (2,419,538)	$ (2,483,276)	$ (2,491,203)	$ (1,373,980)	$ (552,746)	$ (1,036,277)	$ (2,245,835)	$ (1,982,914)	$ (1,604,972)	$ (1,176,852)	$ (751,928)	$ (385,713)	$ (210,620)
92	**Total Over/Under Collection Ending Balance**	$ (2,421,251)	$ (2,457,465)	$ (2,434,344)	$ (1,282,422)	$ (428,567)	$ (882,786)	**$ (2,067,835)**	$ (1,799,083)	$ (1,415,761)	$ (982,339)	$ (552,087)	$ (180,496)	$ 871
93														
94	**Total Indirect Cost of Gas**	$ (2,421,251)	$ 134,119	$ 137,477	$ 143,666	$ 146,020	$ 143,483	$ 134,808	$ 16,094	$ 17,108	$ 18,873	$ 20,849	$ 22,707	$ 24,841
95														
96	**Total Cost of Gas**	$ (2,421,251)	$ 5,292,457	$ 7,720,235	$ 10,232,295	$ 8,637,452	$ 6,166,110	$ 2,632,038	$ 1,559,723	$ 1,219,620	$ 1,147,966	$ 1,150,773	$ 1,170,807	$ 1,795,090
97														
98	**Total Interest**	$ -	$ (11,155)	$ (11,185)	$ (8,498)	$ (3,912)	$ (2,998)	$ (6,746)	$ (8,841)	$ (7,351)	$ (5,483)	$ (3,508)	$ (1,675)	$ (411)

Northern Utilities
NEW HAMPSHIRE (Over) / Undercollection Anal

	Winter	Summer	Prior Period	Total
Working Capital				
Total Anticipated Direct Cost of Gas				$ 47,764,523
Working Capital Percentage				
Working Capital Allowance	$ 55,679	$ 11,073	$ 9,425	$ 76,178
Beginning Period Working Capital Balance				
End of Period Working Capital Allowance				
Interest	$ 1,096	$ 1,992		$ 3,088
End of period with Interest				
Bad Debt				
Projected Bad Debt	$ 121,564	$ 17,079	$ (11,138)	$ 127,505
Beginning Period Bad Debt Balance				
End of Period Bad Debt Balance				
Interest	$ 1,373	$ 3,346		$ 4,720
End of Period Bad Debt Balance with Interest				
Local Production and Storage Capacity				$ 214,538
				$ -
Miscellaneous Overhead				$ 611,875
Gas Cost Other than Bad Debt and Working Capital Over/U				
Beginning Balance Over/Under Collection				$ (18,505,234)
Net Costs - Revenues				$ 2,288,489
Ending Balance before Interest				$ (16,216,745)
Average Balance				$ (17,360,990)
Interest Rate				
Interest Expense				$ (79,571)
Ending Balance Incl Interest Expense			$ (2,419,538)	
Total Over/Under Collection Ending Balance				
Total Indirect Cost of Gas	$ 839,574	$ 120,471	$ (2,421,251)	$ (1,461,205)
Total Cost of Gas	$ 40,680,589	$ 8,043,980	$ (2,421,251)	$ 46,303,318
Total Interest	$ (44,494)	$ (27,269)		$ (71,764)

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - April 31, 2023

	Column A	Column B	Column C
1	**ANTICIPATED DIRECT COST OF GAS**		
2	**Purchased Gas for Sales Service:**		
3	Demand Costs:	$ 6,358,704	
4	Supply Costs:	$ 20,129,627	
5			
6	**Storage & Peaking Gas for Sales Service:**		
7	Demand, Capacity:	$ 12,558,149	
8	Commodity Costs:	$ 11,531,102	
9			
10	**Inventory Finance Charge**	$ 6,382	
11			
12	**Capacity Release**	$ (8,570,786)	
13			
14	**Re-entry Rate & Conversion Rate Revenues**	$ (5,000)	
15			
16	**Total Anticipated Direct Cost of Gas**		$ 42,008,180
17			
18	**ANTICIPATED INDIRECT COST OF GAS**		
19	**Adjustments:**		
20	Prior Period Under/(Over) Collection	$ (2,519,772)	
21	Interest	$ (44,494)	
22	Refunds	$ -	
23	Interruptible Margins	$ -	
24	Total Adjustments		$ (2,564,267)
25			
26	**Working Capital:**		
27	Total Anticipated Direct Cost of Gas	$ 42,008,180	
28	Working Capital Allowance Percentage (9.30 [lag days]/366* prime rate)	0.1398%	
29	Working Capital Allowance	$ 58,708	
30			
31	Plus: Working Capital Reconciliation (Acct 173)	$ 7,583	
32			
33	Total Working Capital Allowance		$ 66,291
34			
35	**Bad Debt:**		
36	Bad Debt Allowance	$ 121,564	
37	Plus: Bad Debt Reconciliation (Acct 173)	$ (10,581)	
38	Total Bad Debt Allowance		$ 110,983
39			
40	**Local Production and Storage Capacity**		$ 214,538
41			
42	**Miscellaneous Overhead-80.46% Allocated to Winter Season**		$ 492,287
43			
44	**Total Anticipated Indirect Cost of Gas**		$ (1,680,168)
45			
46	**Total Cost of Gas**		$ 40,328,012

(*) Prime Rate is 5.50%

N.H.P.U.C No. 12 **Summary**
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - April 31, 2023

	Column A	Column D
1	**ANTICIPATED DIRECT COST OF GAS**	
2	**Purchased Gas for Sales Service:**	
3	Demand Costs:	Attachment NUI-CAK-2, LN 71 + LN 75
4	Supply Costs:	Attachment NUI-CAK-6, LN 14
5		
6	**Storage & Peaking Gas for Sales Service:**	
7	Demand, Capacity:	Attachment NUI-CAK-2, LN 73 + LN 74
8	Commodity Costs:	Attachment NUI-CAK-6, LN 15 + LN 16
9		
10	**Inventory Finance Charge**	Attachment NUI-CAK-6, LN 17
11		
12	**Capacity Release**	-(Attachment NUI-CAK-2, LN 77)
13		
14	**Re-entry Rate & Conversion Rate Revenues**	Attachment NUI-CAK-2, LN 79
15		
16	**Total Anticipated Direct Cost of Gas**	Sum (LN 3 : LN 14)
17		
18	**ANTICIPATED INDIRECT COST OF GAS**	
19	**Adjustments:**	
20	Prior Period Under/(Over) Collection	Attachment NUI-CAK-10, Page 1
21	Interest	Attachment NUI-CAK-12, LN 94: Total
22	Refunds	
23	Interruptible Margins	-(Attachment NUI-CAK-2, LN 78)
24	Total Adjustments	Sum (LN 20 : LN 23)
25		
26	**Working Capital:**	
27	Total Anticipated Direct Cost of Gas	LN 16
28	Working Capital Allowance Percentage (9.30 [lag days]/366* prime	Tariff - NHPUC No. 12 , Section 6.1
29	Working Capital Allowance	LN 27 * LN 28
30		
31	Plus: Working Capital Reconciliation (Acct 173)	Attachment NUI-CAK-10, Attachment A
32		
33	Total Working Capital Allowance	Sum (LN 29 : LN 31)
34		
35	**Bad Debt:**	
36	Bad Debt Allowance	Attachment NUI-CAK-11, LN 16
37	Plus: Bad Debt Reconciliation (Acct 173)	Schedule 10-CAK, Attachment B
38	Total Bad Debt Allowance	LN 36 + LN 37
39		
40	**Local Production and Storage Capacity**	Attachment NUI-CAK-2, LN 84
41		
42	**Miscellaneous Overhead-80.46% Allocated to Winter Season**	Attachment NUI-CAK-2, LN 83
43		
44	**Total Anticipated Indirect Cost of Gas**	Sum (LN 24 : LN 42)
45		
46	**Total Cost of Gas**	LN 44 + LN 16

(*) Prime Rate is 5.50%

CALCULATION OF FIRM SALES COST OF GAS RATE
Period Covered: November 1, 2022 - April 31, 2023

Column A		**Column B**	**Column C**	
Total Anticipated Direct Cost of Gas		$ 42,008,180		
Projected Prorated Sales (11/01/22 - 04/30/23)		35,507,405		
Direct Cost of Gas Rate			$ 1.1831	per therm
Demand Cost of Gas Rate		$ 10,341,068	$ 0.2912	per therm
Commodity Cost of Gas Rate		$ 31,667,112	$ 0.8918	per therm
Total Direct Cost of Gas Rate		$ 42,008,180	$ 1.1830	per therm
Total Anticipated Indirect Cost of Gas		$ (1,680,168)		
Projected Prorated Sales (11/01/22 - 04/30/23)		35,507,405		
Indirect Cost of Gas			$ (0.0473)	per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/22			**$ 1.1357**	**per therm**
RESIDENTIAL COST OF GAS RATE - 11/01/22		**COGwr**	**$ 1.1357**	**per therm**
	Maximum (COG+25%)		**$ 1.4196**	
COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/22		**COGwl**	**$ 1.0604**	**per therm**
	Maximum (COG+25%)		**$ 1.3255**	
C&I HLF Demand Costs Allocated per SMBA	$ 569,531			
PLUS: Residential Demand Reallocation to C&I HLF	$ 8,570			
C&I HLF Total Adjusted Demand Costs	$ 578,101			
C&I HLF Projected Prorated Sales (11/01/22 - 04/30/23)	2,898,272			
Demand Cost of Gas Rate	**$ 0.1995**			
C&I HLF Commodity Costs Allocated per SMBA	$ 2,634,583			
PLUS: Residential Commodity Reallocation to C&I HLF	$ (2,272)			
C&I HLF Total Adjusted Commodity Costs	$ 2,632,312			
C&I HLF Projected Prorated Sales (11/01/22 - 05/30/23)	2,898,272			
Commodity Cost of Gas Rate	**$ 0.9082**			
Indirect Cost of Gas	**$ (0.0473)**			
Total C&I HLF Cost of Gas Rate	**$ 1.0604**			
COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/22		**COGwh**	**$ 1.1496**	**per therm**
	Maximum (COG+25%)		**$ 1.4370**	
C&I LLF Demand Costs Allocated per SMBA	$ 4,796,055			
PLUS: Residential Demand Reallocation to C&I LLF	$ 72,168			
C&I LLF Total Adjusted Demand Costs	$ 4,868,223			
C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	15,802,392			
Demand Cost of Gas Rate	**$ 0.3081**			
C&I LLF Commodity Costs Allocated per SMBA	$ 14,057,910			
PLUS: Residential Commodity Reallocation to C&I LLF	$ (12,123)			
C&I LLF Total Adjusted Commodity Costs	$ 14,045,788			
C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	15,802,392			
Commodity Cost of Gas Rate	**$ 0.8888**			
Indirect Cost of Gas	**$ (0.0473)**			
Total C&I LLF Cost of Gas Rate	**$ 1.1496**			

48	CALCULATION OF FIRM SALES COST OF GAS RATE	
49	Period Covered: November 1, 2022 - April 31, 2023	
50		
51	**Column A**	**Column D**
52		
53	Total Anticipated Direct Cost of Gas	LN 16
54	Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 11
55	**Direct Cost of Gas Rate**	LN 53 / LN 54
56		
57	**Demand Cost of Gas Rate**	Column B : SUM (LN 3 , LN 7 , LN 12) : COLUMN C: LN 5
58	**Commodity Cost of Gas Rate**	Column B : SUM (LN 4 , LN 8) : COLUMN C: LN 58 / LN 5
59	**Total Direct Cost of Gas Rate**	SUM (LN 57 : LN 58)
60		
61	Total Anticipated Indirect Cost of Gas	Column B : LN 44
62	Projected Prorated Sales (11/01/22 - 04/30/23)	Column B : LN 54
63	**Indirect Cost of Gas**	LN 61 / LN 62
64		
65		
66	**TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/22**	LN 59 + LN 63
67		
68	**RESIDENTIAL COST OF GAS RATE - 11/01/22**	LN 66
69		LN 68 * 1.25
70		
71		
72	**COM/IND LOW WINTER USE COST OF GAS RATE - 11/01/22**	LN 89
73		LN 72 * 1.25
74		
75	C&I HLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 170
76	PLUS: Residential Demand Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 16
77	C&I HLF Total Adjusted Demand Costs	Sum (LN 75 : LN 76)
78	C&I HLF Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 14
79	**Demand Cost of Gas Rate**	LN 77 / LN 78
80		
81	C&I HLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 83
82	PLUS: Residential Commodity Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 26
83	C&I HLF Total Adjusted Commodity Costs	Sum (LN 81 : LN 82)
84	C&I HLF Projected Prorated Sales (11/01/22 - 05/30/23)	LN 78
85	**Commodity Cost of Gas Rate**	LN 83 / LN 84
86		
87	**Indirect Cost of Gas**	LN 63
88		
89	**Total C&I HLF Cost of Gas Rate**	Sum (LN 79, LN 85, LN 87)
90		
91		
92	**COM/IND HIGH WINTER USE COST OF GAS RATE - 11/01/22**	LN 109
93		LN 92 * 1.25
94		
95	C&I LLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 171
96	PLUS: Residential Demand Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 17
97	C&I LLF Total Adjusted Demand Costs	Sum (LN 95 : LN 96)
98	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	Attachment NUI-CAK-3, LN 15
99	**Demand Cost of Gas Rate**	LN 97 / LN 98
100		
101	C&I LLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 84
102	PLUS: Residential Commodity Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 27
103	C&I LLF Total Adjusted Commodity Costs	Sum (LN 101 : LN 102)
104	C&I LLF Projected Prorated Sales (11/01/22 - 04/30/23)	LN 98
105	**Commodity Cost of Gas Rate**	LN 103 / LN 104
106		
107	**Indirect Cost of Gas**	LN 63
108		
109	**Total C&I LLF Cost of Gas Rate**	Sum (LN 99, LN 105, LN 107)

N.H.P.U.C No.12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas **Summary Schedule**

New Hampshire Division
Period Covered: May 1, 2023 - October 31, 2023

	Column A	Column B	Column C
110	**ANTICIPATED DIRECT COST OF GAS**		
111	**Purchased Gas:**		
112	Demand Costs:	$ 1,055,340	
113	Supply Costs:	$ 4,140,569	
114			
115	**Storage & Peaking Gas:**		
116	Demand, Capacity:	$ 397,527	
117	Commodity Costs:	$ 162,908	
118			
119	**Inventory Finance Charge**	$ -	
120			
121	**Capacity Release**	$ -	
122			
123	**Re-entry Rate & Conversion Rate Revenues**	$ -	
124			
125	**Total Anticipated Direct Cost of Gas**		$ 5,756,344
126			
127	**ANTICIPATED INDIRECT COST OF GAS**		
128	**Adjustments:**		
129	Prior Period Under/(Over) Collection	$ 100,234	
130	Interest	$ (27,269)	
131	Refunds	$ -	
132	Interruptible Margins	$ -	
133	Total Adjustments		$ 72,965
134			
135	**Working Capital:**		
136	Total Anticipated Direct Cost of Gas	$ 5,756,344	
137	Working Capital Allowance Percentage (9.30 [lag days]/366* prime rate)	0.140%	
138	Working Capital Allowance	$ 8,045	
139	Plus: Working Capital Reconciliation (Acct. 173)	$ 1,842	
140			
141	Total Working Capital Allowance		$ 9,887
142			
143	**Bad Debt:**		
144	Projected Bad Debt	$ 17,079	
145	Plus: Bad Debt Reconciliation (Acct 173)	$ (557)	
146	Total Bad Debt Expense		$ 16,522
147			
148	**Local Production and Storage Capacity**		$ -
149			
150	**Miscellaneous Overhead-19.54% Allocated to Summer Season**		$ 119,588
151			
152	**Total Anticipated Indirect Cost of Gas**		$ 218,962
153			
154	**Total Cost of Gas**		$ 5,975,306
155			

(*) Prime Rate is 5.50%

N.H.P.U.C No.12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
Period Covered: May 1, 2023 - October 31, 2023

	Column A	Column D
110	**ANTICIPATED DIRECT COST OF GAS**	
111	**Purchased Gas:**	
112	Demand Costs:	Attachment NUI-CAK-2, LN 71 + LN 75
113	Supply Costs:	Attachment NUI-CAK-6, LN 14
114		
115	**Storage & Peaking Gas:**	
116	Demand, Capacity:	Attachment NUI-CAK-2, LN 73
117	Commodity Costs:	Attachment NUI-CAK-6, LN 15 + LN 16
118		
119	**Inventory Finance Charge**	- (Attachment NUI-CAK-6, LN 20)
120		
121	**Capacity Release**	- (Attachment NUI-CAK-2, LN 77)
122		
123	**Re-entry Rate & Conversion Rate Revenues**	
124		
125	**Total Anticipated Direct Cost of Gas**	Sum (LN 112 : LN 123)
126		
127	**ANTICIPATED INDIRECT COST OF GAS**	
128	**Adjustments:**	
129	Prior Period Under/(Over) Collection	Attachment NUI-CAK-10, Page 1
130	Interest	Attachment NUI-CAK-12, LN 92: Total
131	Refunds	Company Analysis
132	Interruptible Margins	- (Attachment NUI-CAK-2, LN 78)
133	Total Adjustments	Sum (LN 129 : LN 132)
134		
135	**Working Capital:**	
136	Total Anticipated Direct Cost of Gas	LN 125
137	Working Capital Allowance Percentage (9.30 [lag days]/366* prime	Tariff - NHPUC No. 12 , Section 6.1
138	Working Capital Allowance	LN 136 * LN 137
139	Plus: Working Capital Reconciliation (Acct. 173)	Attachment NUI-CAK-10, Attachment A
140		
141	Total Working Capital Allowance	Sum (LN 138 : LN 139)
142		
143	**Bad Debt:**	
144	Projected Bad Debt	Attachment NUI-CAK-11, LN 17
145	Plus: Bad Debt Reconciliation (Acct 173)	Schedule 10-CAK, Attachment B
146	Total Bad Debt Expense	Sum (LN 144 : LN 145)
147		
148	**Local Production and Storage Capacity**	Attachment NUI-CAK-2, LN 84
149		
150	**Miscellaneous Overhead-19.54% Allocated to Summer Season**	Attachment NUI-CAK-2, LN 83
151		
152	**Total Anticipated Indirect Cost of Gas**	Sum (LN 133 : LN 150)
153		
154	**Total Cost of Gas**	LN 152 + LN 125
155		

(*) Prime Rate is 5.50%

NORTHERN UTILITIES, INC.

CALCULATION OF FIRM SALES COST OF GAS RATE
Period Covered: May 1, 2023 - October 31, 2023

Column A		Column B	Column C	
Total Anticipated Direct Cost of Gas		$ 5,756,344		
Projected Prorated Sales (05/01/23 - 10/31/23)		8,625,565		
Direct Cost of Gas Rate			$ 0.6674	per therm
Demand Cost of Gas Rate		$ 1,452,867	$ 0.1684	per therm
Commodity Cost of Gas Rate		$ 4,303,477	$ 0.4989	per therm
Total Direct Cost of Gas Rate		$ 5,756,344	$ 0.6673	per therm
Total Anticipated Indirect Cost of Gas		$ 218,962		
Projected Prorated Sales (05/01/23 - 10/31/23)		8,625,565		
Indirect Cost of Gas			$ 0.0254	per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/23			**$ 0.6927**	**per therm**
RESIDENTIAL COST OF GAS RATE - 05/01/23		**COGwr**	**$ 0.6927**	**per therm**
	Maximum (COG+25%)		**$ 0.8659**	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/23		**COGwl**	**$ 0.6342**	**per therm**
	Maximum (COG+25%)		**$ 0.7928**	
C&I HLF Demand Costs Allocated per SMBA	$ 230,600			
PLUS: Residential Demand Reallocation to C&I HLF	$ 11,833			
C&I HLF Total Adjusted Demand Costs	$ 242,434			
C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	2,206,001			
Demand Cost of Gas Rate	**$ 0.1099**			
C&I HLF Commodity Costs Allocated per SMBA	$ 1,100,620			
PLUS: Residential Commodity Reallocation to C&I HLF	$ 34			
C&I HLF Total Adjusted Commodity Costs	$ 1,100,655			
C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	2,206,001			
Commodity Cost of Gas Rate	**$ 0.4989**			
Indirect Cost of Gas	**$ 0.0254**			
Total C&I HLF Cost of Gas Rate	**$ 0.6342**			
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/23		**COGwh**	**$ 0.7394**	**per therm**
	Maximum (COG+25%)		**$ 0.9243**	
C&I LLF Demand Costs Allocated per SMBA	$ 566,892			
PLUS: Residential Demand Reallocation to C&I LLF	$ 29,091			
C&I LLF Total Adjusted Demand Costs	$ 595,983			
C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	2,770,809			
Demand Cost of Gas Rate	**$ 0.2151**			
C&I LLF Commodity Costs Allocated per SMBA	$ 1,382,415			
PLUS: Residential Commodity Reallocation to C&I LLF	$ 43			
C&I LLF Total Adjusted Commodity Costs	$ 1,382,458			
C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	2,770,809			
Commodity Cost of Gas Rate	**$ 0.4989**			
Indirect Cost of Gas	**$ 0.0254**			
Total C&I LLF Cost of Gas Rate	**$ 0.7394**			

NORTHERN UTILITIES, INC.

156		
157	CALCULATION OF FIRM SALES COST OF GAS RATE	
158	Period Covered: May 1, 2023 - October 31, 2023	
159		
160	**Column A**	**Column D**
161		
162	Total Anticipated Direct Cost of Gas	LN 125
163	Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 11
164	**Direct Cost of Gas Rate**	LN 162 / LN 163
165		
166	**Demand Cost of Gas Rate**	Column B : SUM (LN 112 , LN 116 , LN 121 , LN 123) : Co
167	**Commodity Cost of Gas Rate**	Column B : SUM (LN 113 , LN 117 , LN 119) : COLUMN C
168	**Total Direct Cost of Gas Rate**	SUM (LN 166 : LN 167)
169		
170	Total Anticipated Indirect Cost of Gas	Column B : LN 152
171	Projected Prorated Sales (05/01/23 - 10/31/23)	Column B : LN 163
172	**Indirect Cost of Gas**	LN 170 / LN 171
173		
174		
175	**TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/23**	LN 168 + LN 172
176		
177	**RESIDENTIAL COST OF GAS RATE - 05/01/23**	LN 175
178		LN 177 * 1.25
179		
180		
181	**COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/23**	LN 198
182		LN 181 * 1.25
183		
184	C&I HLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 170
185	PLUS: Residential Demand Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 16
186	C&I HLF Total Adjusted Demand Costs	Sum (LN 184 : LN 185)
187	C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 14
188	**Demand Cost of Gas Rate**	LN 186 / LN 187
189		
190	C&I HLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 83
191	PLUS: Residential Commodity Reallocation to C&I HLF	Attachment NUI-CAK-9, LN 26
192	C&I HLF Total Adjusted Commodity Costs	Sum (LN 190 : LN 191)
193	C&I HLF Projected Prorated Sales (05/01/23 - 10/31/23)	LN 187
194	**Commodity Cost of Gas Rate**	LN 192 / LN 193
195		
196	**Indirect Cost of Gas**	LN 172
197		
198	**Total C&I HLF Cost of Gas Rate**	Sum (LN 188, LN 194, LN 196)
199		
200		
201	**COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/23**	LN 218
202		LN 201 * 1.25
203		
204	C&I LLF Demand Costs Allocated per SMBA	Attachment NUI-CAK-4, LN 171
205	PLUS: Residential Demand Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 17
206	C&I LLF Total Adjusted Demand Costs	Sum (LN 204 : LN 205)
207	C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	Attachment NUI-CAK-3, LN 15
208	**Demand Cost of Gas Rate**	LN 206 / LN 207
209		
210	C&I LLF Commodity Costs Allocated per SMBA	Attachment NUI-CAK-8, LN 84
211	PLUS: Residential Commodity Reallocation to C&I LLF	Attachment NUI-CAK-9, LN 27
212	C&I LLF Total Adjusted Commodity Costs	Sum (LN 210 : LN 211)
213	C&I LLF Projected Prorated Sales (05/01/23 - 10/31/23)	LN 207
214	**Commodity Cost of Gas Rate**	LN 212 / LN 213
215		
216	**Indirect Cost of Gas**	LN 172
217		
218	**Total C&I LLF Cost of Gas Rate**	Sum (LN 208, LN 214, LN 216)

NORTHERN UTILITIES, INC.

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - October 31, 2023

	Column A	Column B	Column C
219	**ANTICIPATED DIRECT COST OF GAS**		
220	**Purchased Gas for Sales Service:**		
221	Demand Costs:	$ 7,414,044	
222	Supply Costs:	$ 24,270,196	
223			
224	**Storage & Peaking Gas for Sales Service:**		
225	Demand, Capacity:	$ 12,955,676	
226	Commodity Costs:	$ 11,694,010	
227			
228	**Inventory Finance Charge**	$ 6,382	
229			
230	**Capacity Release**	$ (8,570,786)	
231			
232	**Re-entry Rate & Conversion Rate Revenues**	$ (5,000)	
233			
234	**Total Anticipated Direct Cost of Gas**		$ 47,764,523
235			
236	**ANTICIPATED INDIRECT COST OF GAS**		
237	**Adjustments:**		
238	Prior Period Under/(Over) Collection	$ (2,419,538)	
239	Interest	$ (71,764)	
240	Refunds	$ -	
241	Interruptible Margins	$ -	
242	Total Adjustments		$ (2,491,301)
243			
244	**Working Capital:**		
245	Total Anticipated Direct Cost of Gas	$ 47,764,523	
246	Working Capital Percentage	0.1398%	
247	Working Capital Allowance	$ 66,753	
248			
249	Plus: Working Capital Reconciliation (Acct 173)	$ 9,425	
250			
251	Total Working Capital Allowance		$ 76,178
252			
253	**Bad Debt:**		
254	Bad Debt Allowance	$ 138,643	
255	Plus: Bad Debt Reconciliation (Acct 173)	$ (11,138)	
256	Total Bad Debt Allowance		$ 127,505
257			
258	**Local Production and Storage Capacity**		$ 214,538
259			
260	**Miscellaneous Overhead**		$ 611,875
261			
262	**Total Anticipated Indirect Cost of Gas**		$ (1,461,205)
263			
264	**Total Cost of Gas**		$ 46,303,318

NORTHERN UTILITIES, INC.

N.H.P.U.C No. 12
NORTHERN UTILITIES, INC.

Anticipated Cost of Gas

New Hampshire Division
Period Covered: November 1, 2022 - October 31, 2023

	Column A	Column D
219	**ANTICIPATED DIRECT COST OF GAS**	
220	**Purchased Gas for Sales Service:**	
221	Demand Costs:	LN 3 + LN 112
222	Supply Costs:	LN 4 + LN 113
223		
224	**Storage & Peaking Gas for Sales Service:**	
225	Demand, Capacity:	LN 7 + LN 116
226	Commodity Costs:	LN 8 + LN 117
227		
228	**Inventory Finance Charge**	LN 10 + LN 119
229		
230	**Capacity Release**	LN 12 + LN 121
231		
232	**Re-entry Rate & Conversion Rate Revenues**	LN 14 + LN 123
233		
234	**Total Anticipated Direct Cost of Gas**	LN 16 + LN 125
235		
236	**ANTICIPATED INDIRECT COST OF GAS**	
237	**Adjustments:**	
238	Prior Period Under/(Over) Collection	LN 20 + LN 129
239	Interest	LN 21 + LN 130
240	Refunds	LN 22 + LN 131
241	Interruptible Margins	LN 23 + LN 132
242	Total Adjustments	LN 24 + LN 133
243		
244	**Working Capital:**	
245	Total Anticipated Direct Cost of Gas	LN 27 + LN 136
246	Working Capital Percentage	LN 28 + LN 137
247	Working Capital Allowance	LN 29 + LN 138
248		
249	Plus: Working Capital Reconciliation (Acct 173)	LN 31 + LN 139
250		
251	Total Working Capital Allowance	LN 33 + LN 141
252		
253	**Bad Debt:**	
254	Bad Debt Allowance	LN 36 + LN 144
255	Plus: Bad Debt Reconciliation (Acct 173)	LN 37 + LN 145
256	Total Bad Debt Allowance	LN 38 + LN 146
257		
258	**Local Production and Storage Capacity**	LN 40 + LN 148
259		
260	**Miscellaneous Overhead**	LN 42 + LN 150
261		
262	**Total Anticipated Indirect Cost of Gas**	LN 44 + LN 152
263		
264	**Total Cost of Gas**	LN 46 + LN 154

Northern Utilities New Hampshire Division
Cost of Gas Rate Comparison - Residential Rate Classes
(rates per therm)

Proposed Rates	2021-2022 Actual Cost of Gas Rates						Average	Variance
November 2022 - April 2023	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	Winter 22-23	
$1.1357	$0.9392	$0.9392	$0.8975	$0.9462	$1.0547	$1.0547	$0.9719	$0.1638
							Average	
May 2023 - October 2023	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Summer 2022	
$0.6927	$0.6361	$0.9126	$0.9126	$0.9126	$1.1204	$1.1204	$0.9358	($0.2431)

Formula for Supplier Balancing Charge

Balancing Resources

Line	NU Storage Capacity Costs (Fixed)		NU Storage Space (Dth)		Reference
1	$ 119,638	TGP		259,337	Attachment NUI-FXW-4, Page 4
2	$ 4,088,333	Union		4,000,000	Attachment NUI-FXW-4, Page 4
3	$ 4,207,971	TOTAL		4,259,337	LN 1 + LN 2
4	Weighted Average Capacity Cost		$ 0.9879 per Dth		LN 3 Cost / LN3 Space
	NU Storage Commodity Costs (Variable)				
5	TGP FS-MA	Withdraw/Inject		$ 0.0174	Attachment NUI-FXW-9, PG 12, LN 10 * 2
6	Union	Withdraw/Inject		$ 0.0114	Attachment NUI-FXW-9, PG 13, LN 10 * 2
7	Weighted Average Commodity Cost		$ 0.0118 per Dth		LN 5, LN 6 (weighted)
8	Supplier Balancing Charge		$ 1.00 per Dth		LN 4 + LN 7

Re-entry Rate & Conversion Rate
Volumes and Revenues

Month	Re-entry Surcharage		Conversion Surcharge	
	Volumes	Revenues	Volumes	Revenues
Jan-21	16,708	$20.05	0	$0
Feb-21	23,292	$27.95	0	$0
Mar-21	24,208	$29.05	0	$0
Apr-21	11,967	$14.36	0	$0
May-21	0	$0.00	0	$0
Jun-21	527	$0.58	0	$0
Jul-21	864	$0.95	0	$0
Aug-21	691	$0.76	0	$0
Sep-21	1,745	$1.92	0	$0
Oct-21	2,273	$2.50	0	$0
Nov-21	3,191	$3.51	0	$0
Dec-21	0	$0.00	0	$0
Jan-22	0	$0.00	0	$0
Feb-22	0	$0.00	0	$0
Mar-22	0	$0.00	0	$0
Apr-22	0	$0.00	0	$0
May-22	0	$0.00		
Jun-22	0	$0.00	0	$0
Jul-22	0	$0.00	0	$0
Total	85,466	$101.63	0	$0

Northern Utilities, Inc.
Short-Term Debt Limit
($ in thousands)

NU Short-Term Debt Limit Calculation (11/1/2022 - 10/31/2023)			
Fuel Financing Purposes			
NU ME winter gas costs		72,178	
NU NH winter gas costs		40,328	
	Total	112,506	
30% of total winter gas costs		33,752	(a)
Non-Fuel Financing Purposes			
Estimated net utility plant @ 12/31/22		601,452	
15% of Net Utility Plant		90,218	(b)
Short-Term Debt Limit			
Short Term Debt Limit		**123,970**	(a) + (b)