

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
DOCKET DG 21-104
REVENUE REQUIREMENT SCHEDULES AND WORKPAPERS**

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
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12 MONTHS ENDED DECEMBER 31, 2020

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NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
COMPUTATION OF REVENUE DEFICIENCY AND REVENUE REQUIREMENT
12 MONTHS ENDED DECEMBER 31, 2020

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LINE NO.	(1) DESCRIPTION	(2) REFERENCE	(3) AMOUNT
1	Rate Base	Schedule RevReq-5	\$ 188,719,257
2	Rate of Return	Schedule RevReq-6	<u>7.75%</u>
3	Income Required	Line 1 * Line 2	14,621,110
4	Adjusted Net Operating Income	Schedule RevReq-2	<u>8,946,016</u>
5	Deficiency	Line 3 - Line 4	5,675,094
6	Income Tax Effect	Line 7 - Line 5	<u>2,107,856</u>
7	Revenue Deficiency	1.3714 (Schedule RevReq-1-1) * Line 5	<u><u>\$ 7,782,950</u></u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
COMPUTATION OF GROSS-UP FACTOR FOR REVENUE REQUIREMENT
12 MONTHS ENDED DECEMBER 31, 2020

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LINE NO.	(1) DESCRIPTION	(2) RATE	(3) AMOUNT
1	Federal Income Tax Rate	21.00%	0.2100
2	State Income Tax Rate	7.70%	0.0770
3	Federal Benefit of State Income Tax	-(Line 1 * Line 2)	<u>(0.0162)</u>
4	Northern Effective Tax Rate	(Line 1 + Line 2 + Line 3)	<u>0.2708</u>
5	Gross-Up Factor	(1 / 1 - Line 4)	<u><u>1.3714</u></u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
OPERATING INCOME STATEMENT
12 MONTHS ENDED DECEMBER 31, 2020

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LINE NO.	(1) DESCRIPTION	(2)	(3)	LESS	(4)	(5)	(6)	(7)	(8)	(9)
		TEST YEAR 12 MONTHS ENDED 12/31/2020	COST OF GAS EXCLUDING PROD. & OH. ⁽¹⁾		OTHER FLOWTHROUGH ⁽²⁾	TEST YEAR DISTRIBUTION, PROD. & OH.	TEST YEAR DISTRIBUTION	TEST YEAR PROD. & OH.	CALENDAR YEAR 2019 ⁽³⁾	CALENDAR YEAR 2018 ⁽³⁾
1	Operating Revenues:									
2	Total Sales	\$ 65,455,125	\$ 22,701,750	\$	3,458,228	\$ 39,295,147	\$ 38,237,257	\$ 1,057,890	\$ 72,009,468	\$ 78,261,307
3	Total Other Operating Revenues	1,228,348	120,656		-	1,107,692	1,107,692	-	841,893	380,541
4	Total Operating Revenues	\$ 66,683,473	\$ 22,822,406	\$	3,458,228	\$ 40,402,839	\$ 39,344,949	\$ 1,057,890	\$ 72,851,361	\$ 78,641,848
5	Operating Expenses:									
6	Production	\$ 23,544,860	\$ 22,696,215	\$	398,908	\$ 449,736	\$ 449,736	\$ -	\$ 28,226,731	\$ 36,699,896
7	Transmission	63,829	-		-	63,829	63,829	-	72,713	54,452
8	Distribution	3,733,377	-		-	3,733,377	3,733,377	-	3,509,448	3,547,813
9	Customer Accounting	2,608,189	99,544		-	2,508,645	2,508,645	-	2,768,758	2,548,545
10	Customer Service	2,341,706	(0)		2,268,632	73,074	73,074	-	2,319,375	1,946,672
11	Sales Expense	69,178	-		-	69,178	69,178	-	64,467	62,224
12	Administrative & General	6,740,777	-		58,225	6,682,552	6,682,552	-	7,679,291	7,670,327
13	Depreciation	8,876,582	-		-	8,876,582	8,876,582	-	8,166,463	7,482,080
14	Amortizations	816,977	-		-	816,977	816,977	-	838,480	196,816
15	Taxes Other Than Income	4,867,774	-		-	4,867,774	4,867,774	-	4,306,298	4,242,098
16	Federal Income Tax	(30,211)	-		-	(30,211)	(30,211)	-	52,380	(353,526)
17	State Income Tax	(384,644)	-		-	(384,644)	(384,644)	-	(309,547)	(463,245)
18	Deferred Federal & State Income Taxes	2,600,179	-		-	2,600,179	2,600,179	-	2,975,683	3,341,111
19	Interest on Customer Deposits	9,258	-		-	9,258	9,258	-	14,374	18,486
20	Total Operating Expenses	\$ 55,857,829	\$ 22,795,759	\$	2,725,765	\$ 30,336,305	\$ 30,336,305	\$ -	\$ 60,684,915	\$ 66,993,749
21	Net Operating Income	\$ 10,825,644	\$ 26,647	\$	732,463	\$ 10,066,533	\$ 9,008,643	\$ 1,057,890	\$ 12,166,447	\$ 11,648,100

Notes

(1) Refer to Workpaper - Cost of Gas

(2) Refer to Workpaper - Flowthrough Detail. Consists of Energy Efficiency, Environmental Response Costs, Residential Low Income Assistance, Rate Case Costs, Recoupment, Lost Revenue, and On Bill Financing

(3) Calendar Years 2019 and 2018 represents Total Company (i.e., Flowthrough and Distribution).

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PRO FORMA DISTRIBUTION OPERATING INCOME STATEMENT
12 MONTHS ENDED DECEMBER 31, 2020

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(1)		(2)		(3)	(4)	(5)		(6)			
LINE NO.	DESCRIPTION	TEST YEAR DISTRIBUTION, PROD. & OH.		PRO FORMA ADJUSTMENTS	TEST YEAR DISTRIBUTION, PROD. & OH. PRO FORMA	PROOF					
						REVENUE REQUIREMENT	PRO FORMA RATE RELIEF				
1	Operating Revenues:										
2	Total Sales	\$	39,295,147	\$	2,757,397	\$	42,052,544	\$	7,782,950	\$	49,835,494
3	Total Other Operating Revenues		1,107,692		40,013		1,147,705		-		1,147,705
4	Total Operating Revenues	\$	40,402,839	\$	2,797,410	\$	43,200,249	\$	7,782,950	\$	50,983,199
5	Operating Expenses:										
6	Production	\$	449,736	\$	76,191	\$	525,927	\$	-	\$	525,927
7	Transmission		63,829		-		63,829		-		63,829
8	Distribution		3,733,377		554,442		4,287,819		-		4,287,819
9	Customer Accounting		2,508,645		83,172		2,591,817		-		2,591,817
10	Customer Service		73,074		-		73,074		-		73,074
11	Sales Expense		69,178		-		69,178		-		69,178
12	Administrative & General		6,682,552		771,645		7,454,197		-		7,454,197
13	Depreciation		8,876,582		2,354,856		11,231,438		-		11,231,438
14	Amortizations		816,977		(118,930)		698,046		-		698,046
15	Taxes Other Than Income		4,867,774		755,611		5,623,385		-		5,623,385
16	Federal Income Tax		(30,211)		(455,335)		(485,546)		1,508,569		1,023,023
17	State Income Tax		(384,644)		(995,987)		(1,380,631)		599,287		(781,343)
18	Deferred Federal & State Income Taxes		2,600,179		892,262		3,492,441		-		3,492,441
19	Interest on Customer Deposits		9,258		-		9,258		-		9,258
20	Total Operating Expenses	\$	30,336,305	\$	3,917,927	\$	34,254,233	\$	2,107,856	\$	36,362,089
21	Net Operating Income	\$	10,066,533	\$	(1,120,517)	\$	8,946,016	\$	5,675,094	\$	14,621,110

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
SUMMARY OF ADJUSTMENTS
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3
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LINE NO.	(1) DESCRIPTION	(2) CLASSIFICATION	(3) SCHEDULE NO.	(4) AMOUNT
1	Revenue Adjustments			
2	Weather Normalization	Dist Rev	Schedule RevReq-3-1	\$ 1,994,374
3	New Customer Revenue Annualization	Dist Rev	Schedule RevReq-3-2	278,301
4	Residential Low Income	Dist Rev	Schedule RevReq-3-2	264,523
5	Unbilled Revenue	Dist Rev	Schedule RevReq-3-2	294,543
6	Non-Distribution Bad Debt	Dist Rev	Schedule RevReq-3-2	(97,468)
7	Misc. Revenue Adjustment	Dist Rev	Schedule RevReq-3-2	4,788
8	Late Fee Adjustment	Oth Rev	Schedule RevReq-3-2	40,013
9	Billed Accuracy Adjustment	Dist Rev	Schedule RevReq-3-2	367
10	Special Contract Customer Revenue Adjustment	Dist Rev	Schedule RevReq-3-2	17,968
11	Total Revenue Adjustments			<u>\$ 2,797,410</u>
12	Operating & Maintenance Expense Adjustments			
13	Production Expense (O&M)	Prod	Schedule RevReq-3-3	\$ 76,191
14	Payroll	Dist	Schedule RevReq-3-4	554,442
15	Distribution Bad Debt	Cust Acct	Schedule RevReq-3-5	88,160
16	Non-Distribution Bad Debt	Cust Acct	Schedule RevReq-3-2	(97,468)
17	Medical & Dental Insurances	A&G	Schedule RevReq-3-6	404,594
18	Pension	A&G	Schedule RevReq-3-7	(2,185)
19	PBOP	A&G	Schedule RevReq-3-7	(19,749)
20	SERP	A&G	Schedule RevReq-3-7	58,798
21	401K	A&G	Schedule RevReq-3-7	30,095
22	Deferred Comp Expense	A&G	Schedule RevReq-3-7	44,415
23	Property & Liability Insurances	A&G	Schedule RevReq-3-8	60,699
24	NH PUC Assessment	A&G	Schedule RevReq-3-9	116,230
25	Dues & Subscriptions	A&G	Schedule RevReq-3-10	(1,774)
26	Pandemic Costs	A&G	Schedule RevReq-3-11	(107,125)
27	Severance Expense	A&G	Schedule RevReq-3-12	(29,947)
28	Rent Expense	A&G	Schedule RevReq-3-13	51,913
29	Arrearage Management Program (AMP) Implementation Cost	Cust Acct	Schedule RevReq-3-14	92,480
30	Inflation Allowance	A&G	Schedule RevReq-3-15	165,684
31	Total Operating & Maintenance Expense Adjustments			<u>\$ 1,485,451</u>
32	Depreciation And Amortization Expense Adjustments			
33	Depreciation Annualization	Depr	Schedule RevReq-3-16 P1	\$ 469,003
34	Proposed Depreciation Rates	Depr	Schedule RevReq-3-16 P2	1,847,988
35	Production Expense (Depreciation)	Depr	Schedule RevReq-3-3	37,865
36	Software Amortization	Amort	Schedule RevReq-3-17	189,288
37	Excess ADIT Flowback	Amort	Schedule RevReq-3-18	(308,218)
38	Total Depreciation And Amortization Expense Adjustments			<u>\$ 2,235,925</u>
39	Taxes Other Than Income Adjustments			
40	Property Taxes	Oth Tax	Schedule RevReq-3-19	\$ 617,939
41	Payroll Taxes - Wage Increases	Oth Tax	Schedule RevReq-3-20 P1	42,415
42	Payroll Taxes - Employee Retention Credit	Oth Tax	Schedule RevReq-3-20 P2	95,258
43	Total Taxes Other Than Income Adjustments			<u>\$ 755,611</u>
44	Income Taxes Adjustments			
45	Federal Income Tax	FIT	Schedule RevReq-3-21 P1	\$ (405,701)
46	NH State Tax	SIT	Schedule RevReq-3-21 P1	(161,167)
47	Remove Prior Year Federal Income Tax	FIT	Schedule RevReq-3-21 P4	(49,634)
48	Remove Prior Year State Income Tax	SIT	Schedule RevReq-3-21 P4	(834,820)
49	Remove Prior Year Deferred Federal Income Tax	DIT	Schedule RevReq-3-21 P4	57,442
50	Remove Prior Year Deferred State Income Tax	DIT	Schedule RevReq-3-21 P4	834,820
51	Total Income Taxes Adjustments			<u>\$ (559,060)</u>
52	Rate Base Adjustments			
53	NH Supplemental Plant Adjustment	Plant	Schedule RevReq-5-3	\$ 1,873,246
54	NH Supplemental Plant Adjustment	Acc Depr	Schedule RevReq-5-3	1,350,190
55	DIT Settlement Adjustment	RB DIT	Schedule RevReq-5-4	-
56	Cash Working Capital (Due To Pro Forma Adjustments)	CWC	Schedule RevReq-5-2	235,191
57	Total Rate Base Adjustments			<u>\$ 758,247</u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
WEATHER NORMALIZATION
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-1
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LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	To Increase Test Year Base Revenue to Normalize for the Effect of Warmer than Normal Weather ⁽¹⁾	<u>\$ 1,994,374</u>

Notes
(1) Refer to Direct Testimony of Ron Amen & John Taylor

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
REVENUE ADJUSTMENTS
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-2
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LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	<u>Customer Growth Revenue Adjustment</u>	
2	To Increase Test Year Base Revenue for 2020 Customer Growth ⁽¹⁾	\$ 278,301
3	<u>Residential Low Income Assistance Revenue Adjustment</u>	
4	To Reflect Recovery Of The Low Income Discount Through the LDAC ⁽²⁾	\$ 264,523
5	<u>Unbilled Revenue Adjustment</u>	
6	Remove Unbilled Revenue	\$ 294,543
7	<u>Non Distribution Bad Debt Adjustment (Revenue & Expense)</u>	
8	Remove: Accrued Revenue - Non Dist Bad Debt	\$ (97,468)
9	Remove: Provision For Doubtful Accts - Non-Dist - NH	\$ (97,468)
10	<u>Misc. Revenue Adjustment</u>	
11	Clear Remaining Rate Case Expense And Recoupment Balances	\$ 4,788
12	<u>Late Payment Revenue Adjustment</u>	
13	Normalized Late Payment Revenue ⁽³⁾	\$ 76,773
14	Test Year Late Payment Revenue	36,761
15	Late Payment Revenue Adjustment	\$ 40,013
16	<u>Billed Accuracy Adjustment</u>	
17	Booked to Calculated Bill Adjustment ⁽¹⁾	\$ 367
18	<u>Special Contract Customer Revenue Adjustment</u>	
19	Full Year Special Contract Customer Revenue at Special Contract Rate ⁽⁴⁾	\$ 1,197,813
20	Test Year Special Contract Customer Actual Revenue ⁽⁴⁾	1,179,845
21	Net Special Contract Customer Revenue Adjustment	\$ 17,968

Notes

(1) Refer to Direct Testimony of Ron Amen & John Taylor

(2) See Workpaper - Flowthrough Detail

(3) Normalized Late Payment Revenue based on 2019 calendar year activity

(4) Refer to Workpaper 1.1 and Workpaper 1.2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PRODUCTION EXPENSE ADJUSTMENTS
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-3
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LINE NO.	(1) DESCRIPTION	(2) NH	(3) ME	(4) TOTAL	(5) NH PR ALLOC. 40.88%	(6) ME PR ALLOC. 59.12%	(7) NH REVREQ ADJUST.	(8) ME REVREQ ADJUST.
1	Operation & Maintenance Expense							
2	Liquefied Propane Gas Production							
3	Operation Expense							
4	710 - Operation Supervision and Engineering	\$ -	\$ 29,447	\$ 29,447	\$ 12,038	\$ 17,409		
5	717 - Production Operation Labor	-	24,228	24,228	9,904	14,324		
6	735 - Production Operation Miscellaneous	-	59,588	59,588	24,360	35,228		
7	Total Operation Expense	-	113,263	113,263	46,302	66,961		
8	Maintenance							
9	740 - Production Maintenance Supervision	-	29,447	29,447	12,038	17,409		
10	741 - Maintenance of Plant	-	8,464	8,464	3,460	5,004		
11	742 - Maint of Equipment	-	28,588	28,588	11,687	16,901		
12	Total Maintenance Expense	-	66,499	66,499	27,185	39,314		
13	769 - Maint of Scada - Product	-	6,615	6,615	2,704	3,911		
14	Total Manuf Gas Prod Exp	\$ -	\$ 186,377	\$ 186,377	\$ 76,191	\$ 110,186	\$ 76,191	\$ (76,191)
15	Depreciation Expense							
16	Production Plant							
17	305 - Structures	\$ -	\$ 2,277	\$ 2,277	\$ 931	\$ 1,346		
18	Total Production Plant	-	2,277	2,277	931	1,346		
19	Other Storage Plant							
20	361 - Structures & Improve	-	11,705	11,705	4,785	6,920		
21	362 - Gas Holders	-	78,642	78,642	32,149	46,493		
22	Total Other Storage Plant	-	90,347	90,347	36,934	53,413		
23	Total Depreciation & Amortization	\$ -	\$ 92,624	\$ 92,624	\$ 37,865	\$ 54,759	\$ 37,865	\$ (37,865)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PAYROLL ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-4
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LINE NO.	(1) DESCRIPTION	(2)	(3)	(4)	(5)	(6)
		NONUNION	NuNH UNION	SUBTOTAL	FROM USC	TOTAL
1	Test Year Payroll, Adjusted for Target Incentive Compensation	\$ 946,912	\$ 3,475,844	\$ 4,422,756	\$ 6,330,920	\$ 10,753,676
2	2020 Rate Increase, Annualized ⁽¹⁾	-	57,071	57,071	-	57,071
3	Payroll Annualized for 2020 Union Wage Increase	946,912	3,532,915	4,479,827	6,330,920	10,810,747
4	2021 Salary & Wage Increase ⁽²⁾	29,544	105,987	135,531	278,560	414,091
5	Payroll Proformed for 2020 and 2021 Wage Increases	976,456	3,638,903	4,615,358	6,609,480	11,224,838
6	2022 Salary & Wage Increase ⁽³⁾	30,465	109,167	139,632	290,817	430,449
7	Payroll Proformed for 2020, 2021 and 2022 Wage Increases	1,006,921	3,748,070	4,754,991	6,900,297	11,655,288
8	Less Amounts Chargeable to Capital ⁽⁴⁾	470,131	1,749,974	2,220,105	2,243,977	4,464,082
9	O&M Payroll Proformed	536,790	1,998,096	2,534,886	4,656,320	7,191,206
10	Less: Test Year O&M Payroll ⁽⁵⁾			2,364,660	4,272,105	6,636,764
11	Increase in O&M Payroll due to Annual Salary and Wage Increases			170,226	384,216	554,442
12	Incentive Compensation Target Adjustment ⁽⁶⁾			\$ -	-	-
13	Net Adjustment to O&M Payroll / Compensation			170,226	384,216	554,442

Notes

(1) NuNH Union increase of 3.0% effective June 1, 2020

(2) NuNH Non-union increase of 3.12% effective January 1, 2021, Union increase of 3.0% effective September 6, 2021 and USC increase of 4.40% effective January 1, 2021

(3) NuNH Non-union increase of 3.12% effective January 1, 2022, Union increase of 3.0% effective September 6, 2022 and USC increase of 4.40% effective January 1, 2022

(4) Test Year Payroll Capitalization Rates:

NuNH	46.69%
USC	32.52%

(5) Refer to Workpaper 2.2 and Schedule RevReq-3-4, page 2.

(6) Refer to Workpaper 2.4

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
UNITIL SERVICE CORP PAYROLL ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020**

Schedule RevReq-3-4
Page 2 of 2
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LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	Test Year USC Labor Charges to Northern Utilities - New Hampshire Division ⁽¹⁾	\$ 6,330,920
2	2021 Salary & Wage Increase % ⁽²⁾	4.40%
3	Payroll Increase	278,560
4	Proforma Payroll for 2019 Increase	6,609,480
5	2022 Salary & Wage Increase % ⁽²⁾	4.40%
6	Payroll Increase	290,817
7	Proforma Payroll for 2019 and 2020 Increase	6,900,297
8	Payroll Capitalization Ratio for 2021 and 2022 Increase	32.52%
9	Proforma Payroll Capitalization	2,243,977
10	Proforma Amount to O&M Expense	4,656,320
11	Test Year O&M Payroll Amount of USC Charge	4,272,105
12	O&M Payroll Increase	\$ 384,216

Notes

(1) Includes Incentive Compensation at Target of \$688,442

(2) Average Increase of 4.40% Effective January 1, 2021 and Average Increase of 4.40% Effective January 1, 2022

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
DISTRIBUTION BAD DEBT ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020**

**Schedule RevReq-3-5
Table of Contents**

(1)		(2)
LINE NO.	DESCRIPTION	AMOUNT
1	Calendar Year 2019 Write-Offs as a % of Retail Delivery Billed Revenue ⁽¹⁾	0.71%
2	Per Books Based Distribution Billed Revenue - Calendar Year 2019 ⁽¹⁾	\$ 39,254,737
3	Revenue Increase from Rate Case	7,782,950
4	2020 Total Normalized Delivery Retail Billed Revenue	<u>\$ 47,037,687</u>
5	Uncollectible Delivery Revenue	\$ 336,170
6	Less: Test Year Bad Debt Expense	<u>\$ 248,010</u>
7	Increase in Bad Debt Expense	<u><u>\$ 88,160</u></u>

Notes

(1) Normalized write offs and per books base distribution billed revenue by using 2019 calendar year activity

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
MEDICAL AND DENTAL INSURANCE ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-6
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	(1)	(2)	(3)	(4)
LINE NO.	DESCRIPTION	TOTAL	NuNH ⁽¹⁾	UNITIL SERVICE CORP. ⁽²⁾
1	Proformed Medical and Dental O&M Expense	\$ 871,431	\$ 318,565	\$ 552,866
2	Less: Test Year Medical And Dental Insurance O&M Expense	466,837	182,055	284,783
3	Proformed 2021 And 2022 O&M Increase	\$ 404,594	\$ 136,510	\$ 268,083

Notes
(1) See Workpapers W3.1
(2) See Workpapers W3.2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
Pension, PBOP, SERP, 401(K) and Deferred Compensation Expense
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-7
Table of Contents

LINE NO.	(1) DESCRIPTION	(2) TOTAL	(3) NuNH	(4) UNITIL SERVICE CORP.
1	Test Year Pension Expense, as Pro-Formed	\$ 690,223	\$ 250,740	\$ 439,483
2	Test Year PBOP Expense, as Pro-Formed	389,446	204,698	184,748
3	Test Year SERP Expense, as Pro-Formed	320,475	-	320,475
4	Test Year 401K Expense, as Pro-Formed	394,059	98,571	295,488
5	Test Year Deferred Comp Expense, as Pro-Formed	52,717	-	52,717
6	Total Test Year Pension, PBOP, SERP and 401K Expense, as Pro-Formed	1,846,920	554,009	1,292,911
7	Test Year Pension Expense	\$ 692,409	\$ 280,117	\$ 412,291
8	Test Year PBOP Expense	409,195	203,878	205,317
9	Test Year SERP Expense	261,677	-	261,677
10	Test Year 401K Expense	363,965	92,859	271,106
11	Test Year Deferred Comp Expense	8,302	-	8,302
12	Total Test Year Pension, PBOP, SERP and 401K Expense	1,735,547	576,854	1,158,693
13	Test Year Pension Expense, Pro-Forma Adjustment ⁽¹⁾	(2,185)	(29,377)	27,192
14	Test Year PBOP Expense, Pro-Forma Adjustment ⁽²⁾	(19,749)	819	(20,569)
15	Test Year SERP Expense, Pro-Forma Adjustment ⁽³⁾	58,798	-	58,798
16	Test Year 401K Expense, Pro-Forma Adjustment ⁽⁴⁾	30,095	5,712	24,382
17	Test Year Deferred Comp Expense, Pro-Forma Adjustment ⁽⁵⁾	44,415	-	44,415
18	Total Test Year Retirement Costs Pro-Forma Adjustment	\$ 111,373	\$ (22,845)	\$ 134,218

Notes

- (1) Refer to Workpaper 4.1
(2) Refer to Workpaper 4.2
(3) Refer to Workpaper 4.3
(4) Refer to Workpaper 4.4
(5) Refer to Workpaper 4.6

PROPERTY & LIABILITY INSURANCE
12 MONTHS ENDED DECEMBER 31, 2020

LINE NO.	(1) DESCRIPTION	(2) TOTAL	(3) NuNH ⁽¹⁾	(4) UNITIL SERVICE CORP. ⁽²⁾
1	Proformed Property & Liability Insurances O&M Expense	\$ 319,949	\$ 289,097	\$ 30,851
2	Less: Test Year Property & Liability Insurances O&M Expense	259,250	241,873	17,377
3	Proformed 2021 And 2022 O&M Increase	<u>\$ 60,699</u>	<u>\$ 47,224</u>	<u>\$ 13,475</u>

Notes

(1) Refer to Workpaper 5.1

(2) Refer to Workpaper 5.2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
NH PUC ASSESSMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-9
Table of Contents

LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	2021 NH PUC Assessment ⁽¹⁾	\$ 485,194
2	Test Year Total PUC Assessment Recovered Through Base Rates	368,964
3	Adjustment for 2021 NH PUC Assessment	<u>\$ 116,230</u>

Notes

(1) Company will update assessment for fiscal year 2022 during pendency of case

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
DUES & SUBSCRIPTION ADJUSTEMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-10
Table of Contents

(1)		(2)
LINE NO.	DESCRIPTION	AMOUNT
1	AGA Membership Dues	\$ 84,145
2	Amount allocated to NuNH	34%
3	Test Year NuNH Dues & Subscriptions	28,609
4	Adjustment to remove lobbying portion of Dues & Subscriptions ⁽¹⁾	(1,774)

Notes

(1) The portion of 2020 membership that is allocable to lobbying is 6.2%

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PANDEMIC COST ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020**

**Schedule RevReq-3-11
Table of Contents**

(1)		(2)
LINE NO.	DESCRIPTION	AMOUNT
1	Pandemic Cost Adjustment - NuNH	\$ 100,284
2	<u>Unitil Service Expense Allocated to NuNH</u>	
3	Total Unitil Service Pandemic Costs	\$ 49,496
4	NuNH Apportionment	20.18%
5	Expense Apportioned to NuNH	\$ 9,988
6	Capitalization Rate	31.51%
7	NuNH Capitalization	3,147
8	NuNH Net O&M Medical Expense	\$ 6,841
9	Removal of Total Pandemic Costs from Test Year	\$ (107,125)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
SEVERANCE EXPENSE ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-12
Table of Contents

	(1)	(2)
LINE NO.	DESCRIPTION	AMOUNT
1	Test year severance normalization ⁽¹⁾	\$ (29,947)

Notes

(1) Normalized using 5-year historical amounts

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
RENT EXPENSE ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020**

**Schedule RevReq-3-13
Table of Contents**

(1)		(2)
LINE NO.	DESCRIPTION	AMOUNT
1	Rent Expense Charged to Unitil Service Corp.	\$ 381,843
2	NuNH Apportionment	19.85%
3	Expense Apportioned to NuNH	\$ 75,796
4	Capitalization Rate	31.51%
5	NuNH Capitalization	23,883
6	NuNH Net O&M Rent Expense	\$ 51,913

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
ARREARAGE MANGAEMENT PROGRAM (AMP) IMPLEMENTATION ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-14
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	(1)	(2)
LINE NO.	DESCRIPTION	AMOUNT
1	Required AMP Full Time Employee	\$ 84,000
2	Allocable to NuNH	22%
3	Expense Allocable to NuNH	\$ 18,480
4	Annual AMP Forgiveness ⁽¹⁾	74,000
5	Total AMP Implementation Costs	\$ 92,480

Notes
(1) Annual over/under recovery of AMP forgiveness to be reconciled through Company's proposed Regulatory Cost Adjustment Mechanism as a component of the Local Delivery Adjustment Charge

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
INFLATION ALLOWANCE
12 MONTHS ENDED DECEMBER 31, 2020**

Schedule RevReq-3-15
Page 1 of 2
Table of Contents

LINE NO.	(1) DESCRIPTION	(2) AMOUNT AS FILED
1	Test Year Distribution O&M Expenses	\$ 13,580,391
	Less Normalizing Adjustments Items:	
2	Payroll	\$ 6,636,764
3	Medical and Dental Insurance	466,837
4	401K Costs	363,965
5	Property & Liability Insurance	259,250
6	PUC Assessment	368,964
7	Total Normalizing Adjustment Items	\$ 8,095,780
	Less Items not Subject to Inflation:	
8	Pension	\$ 692,409
9	Postemployment Benefits Other than Pensions	409,195
10	Supplemental Executive Retirement Plan	261,677
11	Deferred Comp Expense	8,302
12	Bad Debts	345,477
13	Postage	135,037
14	Amortizations - USC Charge	75,914
15	Facility Leases - USC Charge	320,591
16	Total Items not Subject to Inflation	\$ 2,248,602
17	Residual O&M Expenses	\$ 3,236,009
18	Projected Inflation Rate ⁽¹⁾	5.12%
19	Increase in Other O&M Expense for Inflation	\$ 165,684

Notes

(1) Refer to Schedule RevReq-3-15, Page 2 of 2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
INFLATION ALLOWANCE
12 MONTHS ENDED DECEMBER 31, 2020

LINE NO.	(1) DESCRIPTION	(2) INDEX ⁽¹⁾
	GDPIPD Index Value at the end of the Test Year:	
1	June 2020 Index-GDP	113.0
2	July 2020 Index-GDP	113.6
3	July 1, 2020 (Midpoint of Test Year) Index	113.3
	GDPIPD Index Value at date of permanent rates :	
4	July 2022 Index-GDP	119.0
5	August 2022 Index-GDP	119.2
6	August 1, 2022 (Date of Permanent Rates) Index	119.1
7	Projected Inflation Rate	5.12%

Notes
(1) Refer to Workpaper 6.1 for GDPIPD Indices

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
DEPRECIATION ANNUALIZATION
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-16
Page 1 of 2
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LINE NO.	(1) DESCRIPTION	(2) PLANT BALANCE 12/31/2020	(3) CURRENT DEPRECIATION RATES	(4) ANNUAL DEPRECIATION EXPENSE
1	Amortizable Plant:			
2	303 Misc Intangible Plant	\$ 12,826,347	N/A	N/A
3	Total Amortizable Plant	12,826,347	N/A	-
4	Mfg. Gas Produc. Plant:			
5	304.2 Land & Rights - Mfg Gas Prod. PI	6,816	N/A	N/A
6	305 Struct. And Improvements	-	N/A	N/A
7	320 Other Equipment	-	N/A	N/A
8	321 LNG Equipment	-	N/A	N/A
9	Total Mfg Gas Prod. Plant	6,816	N/A	-
10	Distribution Plant:			
11	374.4 Land Rgts, Other Distr Sy	89,111	N/A	N/A
12	374.5 Land Rgts, Rights Of Way	17,911	N/A	N/A
13	375.2 Structures - City Gate Meas & Reg	43,350	1.43%	620
14	375.7 Structures - Other Dist Sys	3,217,521	1.43%	46,011
15	376.2 Mains - Coated/Wrapped	29,746,227	2.66%	791,250
16	376.3 Mains - Bare Steel	190,837	N/A	N/A
17	376.4 Mains - Plastic	120,342,184	2.87%	3,453,821
18	376.5 Mains - Joint Seals	542,145	N/A	N/A
19	376.6 Mains - Cathodic Protection	1,082,739	4.17%	45,150
20	376.8 Mains - Cast Iron	28,455	N/A	N/A
21	378.2 Mea & Reg Station Eq, Regulating	7,288,982	3.50%	255,114
22	379 Mea & Reg Ta-G	39,266	3.50%	1,374
23	380 Services	82,837,047	3.67%	3,040,120
24	381 Meters	4,624,610	3.33%	154,000
25	382 Meter Installations	26,001,685	3.33%	865,856
26	383 House Regulators	733,550	3.33%	24,427
27	386 Water Heaters/Conversion Burners	1,978,895	7.41%	146,636
28	Total Distribution Plant	278,804,516	3.17%	8,824,379
29	General Plant:			
30	389.1 Land	232,947	N/A	N/A
31	391.10 Off Furn & Eq.- Unspecified	508,135	8.70%	44,208
32	393 Stores Equipment	31,520	N/A	N/A
33	394.10 Tools, Garage & Service Equipment	1,430,421	5.26%	75,240
34	396 Power Operated Equipment	75,266	N/A	N/A
35	397 Communication Equipment	1,873,480	9.09%	170,299
36	397.25 Metscan Communication Equip	112,656	N/A	N/A
37	397.35 ERT Automatic Reading Dev	3,470,146	6.67%	231,459
38	Total General Plant	7,734,572	7.16%	521,206
39	Total Plant in Service	\$ 299,372,252	3.28%	\$ 9,345,585
40	Test Year Expense			\$ 8,876,582
41	Increase In Depreciation Expense			\$ 469,003

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PROPOSED DEPRECIATION RATES
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-16
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[Table of Contents](#)

LINE NO.	(1) DESCRIPTION	(2) PLANT BALANCE 12/31/2020	(3) PROPOSED DEPRECIATION RATES	(4) PROPOSED DEPRECIATION EXPENSE
1	Amortizable Plant:			
2	303 Misc Intangible Plant	\$ 12,826,347	N/A	N/A
3	Total Amortizable Plant	12,826,347	N/A	-
4	Mfg. Gas Produc. Plant:			
5	304.2 Land & Rights - Mfg Gas Prod. Pl	6,816	N/A	N/A
6	305 Struct. And Improvements	-	N/A	N/A
7	320 Other Equipment	-	N/A	N/A
8	321 LNG Equipment	-	N/A	N/A
9	Total Mfg Gas Prod. Plant	6,816	N/A	-
10	Distribution Plant:			
11	374.4 Land Rgts, Other Distr Sy	89,111	N/A	N/A
12	374.5 Land Rgts, Rights Of Way	17,911	N/A	N/A
13	375.2 Structures - City Gate Meas & Reg	43,350	2.74%	1,188
14	375.7 Structures - Other Dist Sys	3,217,521	2.74%	88,160
15	376.2 Mains - Coated/Wrapped	29,746,227	3.78%	1,124,407
16	376.3 Mains - Bare Steel	190,837	N/A	N/A
17	376.4 Mains - Plastic	120,342,184	2.88%	3,465,855
18	376.5 Mains - Joint Seals	542,145	N/A	N/A
19	376.6 Mains - Cathodic Protection	1,082,739	4.64%	50,239
20	376.8 Mains - Cast Iron	28,455	N/A	N/A
21	378.2 Mea & Reg Station Eq, Regulating	7,288,982	4.87%	354,973
22	379 Mea & Reg Ta-G	39,266	4.87%	1,912
23	380 Services	82,837,047	4.41%	3,653,114
24	381 Meters	4,624,610	5.34%	246,954
25	382 Meter Installations	26,001,685	4.23%	1,099,871
26	383 House Regulators	733,550	3.32%	24,354
27	386 Water Heaters/Conversion Burners	1,978,895	11.36%	224,802
28	Total Distribution Plant	278,804,516	3.72%	10,335,829
29	General Plant:			
30	389.1 Land	232,947	N/A	N/A
31	391.10 Off Furn & Eq.- Unspecified	508,135	6.67%	33,893
32	393 Stores Equipment	31,520	N/A	N/A
33	394.10 Tools, Garage & Service Equipment	1,430,421	3.67%	52,496
34	396 Power Operated Equipment	75,266	N/A	N/A
35	397 Communication Equipment	1,873,480	5.36%	100,419
36	397.25 Metscan Communication Equip	112,656	N/A	N/A
37	397.35 ERT Automatic Reading Dev	3,470,146	3.18%	110,351
38	Total General Plant	7,734,572	4.08%	297,159
39	Total Plant in Service	\$ 299,372,252	3.73%	\$ 10,632,988
40	<u>Reserve Adjustment For Amortization ⁽¹⁾</u>			
41	391.10 Off Furn & Eq.- Unspecified			(3,628)
42	394.10 Tools, Garage & Service Equipment			(27,132)
43	397 Communication Equipment			(80,592)
44	397.35 ERT Automatic Reading Dev			(35,960)
45	Total Reserve Adjustment for Amortization			(147,312)
46	<u>Leak Prone Pipe ⁽¹⁾</u>			
47	376.3 Mains - Bare Steel			464,724
48	376.8 Mains - Cast Iron			243,173
49	Total Leak Prone Pipe Amortization			707,897
50	Total Pro Forma Depreciation Expense (Line 39 + Line 45 + Line 49)			11,193,573
51	Annualized Test Year Expense ⁽²⁾			\$ 9,345,585
52	Increase in Depreciation Expense			\$ 1,847,988

Notes

(1) Refer to testimony and schedules of Mr. Allis

(2) Refer to Schedule RevReq-3-16, Page 1 of 2, Line 39

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
AMORTIZATION ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-17
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LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	NU-NH Rate Year Software Amortization ⁽¹⁾	\$ 669,511
2	USC Allocated Rate Year Software Amortization ⁽²⁾	118,959
3	Total Rate Year Software Amortization	<u>788,470</u>
4	NU-NH Test Year Software Amortization ⁽³⁾	\$ 522,006
5	USC Allocated Test Year Software Amortization ⁽⁴⁾	77,176
6	Total 2020 Test Year Software Amortization	<u>599,182</u>
7	Test Year Amortization Expense Adjustment (Line 3 - Line 7)	<u><u>\$ 189,288</u></u>

Notes

(1) Workpaper W7.2 Line 76

(2) Workpaper W7.4 Line 20

(3) Workpaper W7.1 Line 89

(4) Workpaper W7.3 Line 20

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
EXCESS ACCUMULATED DEFERRED INCOME TAX ("ADIT") FLOW BACK
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-18
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LINE NO.	(1) DESCRIPTION	(2) TOTAL
1	Annual Amortization Expense Reduction Related to Excess ADIT Flowback ⁽¹⁾	\$ (308,218)

Notes
(1) Refer to Exhibit JAG-6

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PROPERTY TAXES
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-19
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	(1)	(2)	(3)	(4)	(5)
LINE NO.	MUNICIPALITY & STATE	TAXATION PERIOD	LOCAL TAX RATE	ASSESSED VALUATION	TOTAL TAXES ⁽¹⁾
1	Atkinson	4/1 - 3/31	\$ 16.24	1,564,100	25,401
2	Brentwood	4/1 - 3/31	\$ 21.36	1,489,600	31,818
3	Brentwood	4/1 - 3/31	\$ 23.19	400	9
4	Dover	4/1 - 3/31	\$ 24.85	1,200	30
5	Dover	4/1 - 3/31	\$ 22.92	37,150,600	851,492
6	Durham	4/1 - 3/31	\$ 25.73	7,742,400	199,212
7	East Kingston	4/1 - 3/31	\$ 20.50	746,700	15,307
8	Epping	4/1 - 3/31	\$ 23.64	1,079,900	25,529
9	Exeter	4/1 - 3/31	\$ 22.50	13,803,800	310,586
10	Greenland	4/1 - 3/31	\$ 14.58	733,400	10,693
11	Hampton--Class 4000	4/1 - 3/31	\$ 13.93	18,884,700	263,064
12	Hampton--Class 5000	4/1 - 3/31	\$ 14.43	9,301,400	134,219
13	Hampton Falls	4/1 - 3/31	\$ 19.33	36,400	704
14	Kensington	4/1 - 3/31	\$ 18.61	1,442,400	26,843
15	Madbury	4/1 - 3/31	\$ 23.41	347,000	8,123
16	Newington	4/1 - 3/31	\$ 8.02	2,848,900	22,848
17	North Hampton	4/1 - 3/31	\$ 14.80	1,822,800	26,977
18	Plaistow	4/1 - 3/31	\$ 19.60	9,849,580	193,052
19	Portsmouth	4/1 - 3/31	\$ 12.80	47,562,000	608,794
20	Rochester	4/1 - 3/31	\$ 22.67	26,840,200	608,468
21	Rollinsford	4/1 - 3/31	\$ 22.57	194,600	4,392
22	Rollinsford	4/1 - 3/31	\$ 24.68	20,000	494
23	Salem	4/1 - 3/31	\$ 19.82	9,478,700	187,867
24	Seabrook	4/1 - 3/31	\$ 13.90	12,142,100	168,775
25	Somersworth	4/1 - 3/31	\$ 25.91	9,713,200	251,669
26	Somersworth	4/1 - 3/31	\$ 27.85	62,000	1,727
27	Stratham	4/1 - 3/31	\$ 17.14	497,200	8,522
28	State Of NH ⁽²⁾	4/1 - 3/31			1,359,585
29	Total			\$ 215,355,280	\$ 5,346,199
30	Test Year Property Taxes ⁽³⁾				\$ 4,728,948
31	Less: Test Year Property Tax Abatements ⁽⁴⁾				688
32	Total Test Year Property Tax Expense				\$ 4,728,260
33	Total Property Tax Increase (Line 29 - Line 32)				\$ 617,939

Notes

(1) Based on final 2020 property tax bills. Company will update for final 2021 property tax bills during pendency of case

(2) Based on current estimated 2021 State Property Tax. Amount will be updated during pendency of case

(3) Test Year Property Taxes adjusted to exclude Greenland 2019 bill correction of \$317

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PAYROLL TAX ADJUSTMENT - WAGE INCREASES
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-20
Page 1 of 2
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	(1)	(2)	(3)	(4)
LINE NO.	DESCRIPTION	SOCIAL SECURITY	MEDICARE	TOTAL
1	Increase in O&M Payroll / Compensation due to Annual Rate Increases ⁽¹⁾	\$ 554,442	\$ 554,442	
2	Payroll Tax Rates	6.20%	1.45%	
3	Increase in Payroll Taxes	<u>\$ 34,375</u>	<u>\$ 8,039</u>	<u>\$ 42,415</u>

Notes

(1) Refer to Schedule RevReq-3-4, Page 1 of 2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PAYROLL TAX ADJUSTMENT - EMPLOYEE RETENTION CREDIT
EMPLOYEE RETENTION CREDIT ("ERC") & FAMILY FIRST CORONAVIRUS RESPONSE ACT ("FFCRA")
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-20
Page 2 of 2
Table of Contents

LINE NO.	(1) DESCRIPTION	(2) SOCIAL SECURITY
1	ERC & FFCRA - NuNH	\$ (107,364)
2	Capitalization Rate	46.69%
3	Capitalized Amount	(50,128)
4	Net Expense - NuNH	(57,236)
5	<u>Unitil Service ERC Allocated to NuNH</u>	
6	Total Unitil Service ERC	\$ (279,213)
7	NUNH Apportionment	20.18%
8	Expense Apportioned to NuNH	\$ (56,345)
9	Capitalization Rate	32.52%
10	NuNH Capitalization	(18,323)
11	NuNH Net ERC	\$ (38,022)
12	Removal of Total ERC & FFCRA from Test Year	\$ 95,258

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
COMPUTATION OF FEDERAL AND STATE INCOME TAXES
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-21
Page 1 of 4
Table of Contents

LINE NO.	(1) DESCRIPTION	(2) Amount
1	<u>Increases / (Decreases) To Revenue</u>	
2	Weather Normalization	\$ 1,994,374
3	New Customer Revenue Annualization	278,301
4	Residential Low Income	264,523
5	Unbilled Revenue	294,543
6	Non-Distribution Bad Debt	(97,468)
7	Misc. Revenue Adjustment	4,788
8	Late Fee Adjustment	40,013
9	Billed Accuracy Adjustment	367
10	Special Contract Customer Revenue Adjustment	17,968
11	Total Revenue Adjustments	\$ 2,797,410
12	<u>Increases / (Decreases) To Expenses</u>	
13	Production Expense (O&M)	\$ 76,191
14	Payroll	554,442
15	Medical & Dental Insurances	404,594
16	Distribution Bad Debt	88,160
17	Non-Distribution Bad Debt	(97,468)
18	Pension	(2,185)
19	PBOP	(19,749)
20	SERP	58,798
21	401K	30,095
22	Deferred Comp Expense	44,415
23	Property & Liability Insurances	60,699
24	NH PUC Assessment	116,230
25	Dues & Subscriptions	(1,774)
26	Pandemic Costs	(107,125)
27	Severance Expense	(29,947)
28	Rent Expense	51,913
29	Arrearage Management Program (AMP) Implementation Cost	92,480
30	Inflation Allowance	165,684
31	Depreciation Annualization	469,003
32	Proposed Depreciation Rates	1,847,988
33	Production Expense (Depreciation)	37,865
34	Software Amortization	189,288
35	Excess ADIT Flowback	(308,218)
36	Property Taxes	617,939
37	Payroll Taxes - Wage Increases	42,415
38	Payroll Taxes - Employee Retention Credits	95,258
39	Flowthrough Net Operating Income	759,111
40	Change In Interest Exp (Refer To Schedule RevReq 3-21 Page 2)	(345,611)
41	Total Expense Adjustments	\$ 4,890,487
42	Increase / (Decrease) In Taxable Income	\$ (2,093,077)
43	Effective Federal Income Tax Rate ⁽¹⁾	19.38%
44	NH State Tax Rate ⁽²⁾	7.70%
	<u>Federal Income & NH State Tax</u>	
45	Effective Federal Income Tax	\$ (405,701)
46	NH State Tax	(161,167)
47	Increase (Decrease) In Income Taxes	\$ (566,868)
	<u>Notes</u>	
48	Federal Income Tax Rate	21.00%
49	Federal Benefit of State Tax - (Line 48 * Line 51)	-1.62%
50	(1) Effective Federal Income Tax Rate	19.38%
51	(2) State Income Tax Rate	7.70%
52	Northern New Hampshire Tax Rate (Line 50 + Line 51)	27.08%

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
CHANGE IN INTEREST EXPENSE APPLICABLE TO INCOME TAX COMPUTATION
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-3-21
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LINE NO.	(1) DESCRIPTION	(2) AMOUNT
1	Ratemaking Interest Synchronization	
2	Rate Base ⁽¹⁾	\$ 188,719,257
3	Cost Of Debt In Proposed Rate Of Return ⁽²⁾	2.34%
4	Interest Expense for Ratemaking	\$ 4,422,286
5	Test Year Interest Expense	
6	Interest Charges (427-431)	\$ 4,767,897
7	Increase / (Decrease) in Interest Expense	\$ (345,611)

Notes

(1) Refer to Schedule RevReq-5

(2) Refer to Schedule RevReq-6

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
COMPUTATION OF FEDERAL AND STATE INCOME TAXES
12 MONTHS ENDED DECEMBER 31, 2020

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LINE NO	(1) DESCRIPTION	(2) TEST YEAR ACTUAL	(3) PRO-FORMA ADJUSTMENTS	(4) TEST YEAR UTILITY
1	Net Income	\$ 6,096,270	\$ -	\$ 6,096,270
2	Federal Income Tax-Current	(19,629)	-	(19,629)
3	NH State Income Tax-Current	(380,440)	-	(380,440)
4	NH State Business Enterprise Credit Against NH BPT	63,600	-	63,600
5	Deferred Federal Income Tax	1,637,521	-	1,637,521
6	Deferred State Income Tax	962,658	-	962,658
7	Net Income Before Income Taxes	8,359,980	-	8,359,980
8	<u>Permanent Items</u>			
9	Lobbying	22,225	-	22,225
10	Parking Lot Disallowance	2,543	-	2,543
11	Penalties	2,500	-	2,500
12	Total Permanent Items	27,268	-	27,268
13	<u>Temporary Differences</u>			
14	Accrued Revenue	(3,295,760)	-	(3,295,760)
15	Bad Debt	81,370	-	81,370
16	FASB 87-Pensions	(211,016)	-	(211,016)
17	PBOP SFAS 106	96,936	-	96,936
18	Remediation	267,789	-	267,789
19	Utility Plant Differences	(5,924,514)	-	(5,924,514)
20	Total Temporary Differences	(8,985,195)	-	(8,985,195)
21	<u>Federal And State Tax Differences</u>			
22	Tax Depreciation	(2,123,819)	-	(2,123,819)
23	Total Federal And State Tax Differences	(2,123,819)	-	(2,123,819)
24	State Taxable Base Income	(2,721,766)	-	(2,721,766)
25	State Business Profits Tax - Current	(209,576)	-	(209,576)
26	Less: Business Enterprise Tax	63,600	-	63,600
27	Total State Tax Expense	(273,176)	-	(273,176)
28	Federal Taxable Income Base Before Federal And State Tax Differences	(2,512,190)	-	(2,512,190)
29	Less: Federal And State Tax Differences	(2,123,819)	-	(2,123,819)
30	Federal Taxable Income Base	(388,371)	-	(388,371)
31	Federal Income Tax-Current	(81,558)	-	(81,558)
32	<u>Summary Of Utility Income Taxes:</u>			
33	Federal Income Tax-Current	(92,140)	-	(92,140)
34	Federal Income Tax-Prior	49,634	-	49,634
35	Federal Income Tax-NOL	12,295	-	12,295
36	Federal Amount To Non-Distribution Operations	10,582	(10,582)	-
37	State Business Profits Tax-Current	(277,380)	-	(277,380)
38	State Business Profits Tax-Prior	834,820	-	834,820
39	State Business Profits Tax-NOL	(942,084)	-	(942,084)
40	State Amount To Non-Distribution Operations	4,204	(4,204)	-
41	Deferred Federal Income Tax	1,707,258	-	1,707,258
42	Deferred Federal Income Tax-Prior	(57,442)	-	(57,442)
43	Deferred Federal Income Tax-NOL	(12,295)	-	(12,295)
44	Deferred State Business Profits Tax	855,394	-	855,394
45	Deferred State Business Profits Tax-Prior	(834,820)	-	(834,820)
46	Deferred State Business Profits Tax-NOL	942,084	-	942,084
47	Total Income Taxes	\$ 2,200,110	\$ (14,786)	\$ 2,185,324

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
PRIOR YEAR INCOME TAXES
12 MONTHS ENDED DECEMBER 31, 2020**

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(1)		(2)
LINE NO	DESCRIPTION	ACTUAL
1	Remove Prior Year Federal Income Taxes	\$ (49,634)
2	Remove Prior Year State Income Taxes	(834,820)
3	Remove Prior Year Deferred Federal Income Taxes	57,442
4	Remove Prior Year Deferred State Income Taxes	834,820
5	Total	<u>\$ 7,808</u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
ASSETS & DEFERRED CHARGES
12 MONTHS ENDED DECEMBER 31, 2020

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LINE NO.	(1) Category	(3) New Hampshire	(2) Maine	(4) Common	(5) Consolidated December 31, 2020	(6) Consolidated December 31, 2019	(7) Consolidated December 31, 2018
1	<u>Gas Plant</u>						
2	In Service	\$ 299,372,252	\$ 390,755,625	\$ -	\$ 690,127,877	\$ 623,207,033	\$ 560,519,339
3	Construction Work in Progress	6,411,145	6,890,804	-	13,301,949	12,576,742	11,064,887
4	Less: Reserve for Depreciation	(88,023,262)	(87,391,662)	-	(175,414,925)	(143,066,942)	(131,806,854)
5	Total Gas Plant	217,760,135	310,254,767	-	528,014,901	492,716,833	439,777,371
6	<u>Other Property</u>						
7	Total Other Net Property	-	86,855	-	86,855	29,819	(24,914)
8	Total Other & Non Operating Plant	-	86,855	-	86,855	29,819	(24,914)
9	<u>Current Assets</u>						
10	Cash	1,500	250	370,260	372,010	341,847	672,243
11	Accounts Receivable - Gas	9,102,182	14,492,785	-	23,594,967	21,416,443	28,512,317
12	Accounts Receivable - Other	181,592	14,495	3,377	199,464	154,773	34,597
13	Uncollectible Accounts	(294,933)	(863,075)	-	(1,158,008)	(441,588)	(836,962)
14	Notes Receivable	-	-	8,913,185	8,913,185	5,559,766	3,137,369
15	Material and Supplies	2,416,575	2,048,155	-	4,464,730	4,162,206	3,892,225
16	Stores Expense Undistributed	356,883	351,217	-	708,100	655,826	481,856
17	Inventory	267,731	40,348	-	308,079	448,104	391,250
18	Prepayments	963,040	1,128,283	70,044	2,161,367	4,450,029	3,400,561
19	Accrued Revenue	3,803,680	4,731,203	-	8,534,883	9,587,864	8,319,787
20	Miscellaneous Current Assets	4,530,525	93,747	-	4,624,272	5,666,176	7,622,013
21	Total Current Assets	21,328,775	22,037,408	9,356,866	52,723,049	52,001,444	55,627,256
22	<u>Deferred Charges</u>						
23	Unamortized Debt Expense	-	-	1,359,851	1,359,851	1,208,586	1,092,517
24	Other - Deferred Debits	13,872,478	20,353,943	98,736	34,325,157	27,066,138	32,928,903
25	Total Deferred Charges	13,872,478	20,353,943	1,458,587	35,685,008	28,274,724	34,021,420
26	Total Assets & Deferred Charges	\$ 252,961,387	\$ 352,732,973	\$ 10,815,453	\$ 616,509,813	\$ 573,022,820	\$ 529,401,133

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
STOCKHOLDERS EQUITY & LIABILITIES
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-4-2
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LINE NO.	(1) Category	(3) New Hampshire	(2) Maine	(4) Common	(5) Consolidated December 31, 2020	(6) Consolidated December 31, 2019	(7) Consolidated December 31, 2018
1	<u>Capitalization</u>						
2	Common Stock	\$ -	\$ -	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000
3	Paid in Capital	-	-	207,074,000	207,074,000	200,699,000	175,199,000
4	Earned Surplus	6,096,270	8,643,131	9,713,702	24,453,103	24,380,042	22,032,465
5	Stockholders Equity	6,096,270	8,643,131	216,788,702	231,528,103	225,080,042	197,232,465
6	<u>Long Term Debt</u>						
7	Bonds and Notes	-	-	230,000,000	230,000,000	198,200,000	166,600,000
8	Total	-	-	230,000,000	230,000,000	198,200,000	166,600,000
9	<u>Current and Accrued Liabilities</u>						
10	Accounts Payable	639,411	538,256	6,001,159	7,178,826	8,651,894	10,471,212
11	Notes Payable to Associated Co.	-	-	26,747,022	26,747,022	28,494,680	58,154,005
12	A/P to Associated Co's	-	-	7,400,409	7,400,409	6,497,178	3,145,273
13	Customer Deposits	249,677	342,624	-	592,301	640,562	738,651
14	Taxes Accrued	67,648	(4,613)	-	63,035	292,534	14,450
15	Interest Accrued	-	-	2,094,467	2,094,467	1,824,919	1,503,714
16	Dividends Declared	-	-	3,666,585	3,666,585	3,304,600	1,229,300
17	Other Tax Liabilities	750,955	(609,964)	33,532	174,523	94,759	130,422
18	Other Current and Accrued Liabilities	811,427	576,546	7,636,657	9,024,630	11,636,693	15,472,163
19	Total Current and Accrued Liabilities	2,519,118	842,849	53,579,831	56,941,798	61,437,819	90,859,190
20	<u>Deferred Credits</u>						
21	Other Deferred Credits	18,639,799	21,537,277	-	40,177,076	35,921,434	27,893,528
22	Other Regulatory Liabilities	6,608,392	8,917,471	-	15,525,863	15,874,493	15,992,896
23	Accumulated Deferred Income Taxes	16,892,861	25,444,116	-	42,336,977	36,509,031	30,823,054
24	Total Deferred Credits	42,141,052	55,898,864	-	98,039,916	88,304,958	74,709,478
25	Total Stockholders Equity & Liabilities	\$ 50,756,440	\$ 65,384,844	\$ 500,368,533	\$ 616,509,817	\$ 573,022,819	\$ 529,401,133

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
UTILITY PLANT IN SERVICE
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-4-3
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LINE NO.	(1) Account Name	(2) CAPITAL 1/1	(3) ADDITIONS	(4) RETIREMENTS	(5) TRANSFER ADJ	(6) PLANT IN SERVICE 12/31	(7) COMPLETED CONSTRUCTION NOT CLASSIFIED 12/31
1	Amortizable Plant:						
2	303 Misc Intangible Plant	\$ 11,262,452	\$ 960,046	\$ -	\$ -	\$ 12,222,498	\$ 603,849
3	Total Amortizable Plant	11,262,452	960,046	-	-	12,222,498	603,849
4	Mfg. Gas Produc. Plant:						
5	304.2 Land & Rights - Mfg Gas Prod. PI	6,816	-	-	-	6,816	-
6	305 Struct. And Improvements	161,860	-	(75,459)	(86,401)	-	-
7	320 Other Equipment	7,640	-	(7,006)	(634)	-	-
8	321 LNG Equipment	84,156	-	(84,156)	-	-	-
9	Total Mfg Gas Prod. Plant	260,472	-	(166,621)	(87,035)	6,816	-
10	Distribution Plant:						
11	374.4 Land Rgts, Other Distr Sy	89,111	-	-	-	89,111	-
12	374.5 Land Rgts, Rights Of Way	17,911	-	-	-	17,911	-
13	375.2 Structures - City Gate Meas & Reg	45,256	-	(1,906)	-	43,350	-
14	375.7 Structures - Other Dist Sys	3,124,357	4,495	-	87,035	3,215,887	1,634
15	376.2 Mains - Coated/Wrapped	24,602,506	5,182,813	(78,525)	-	29,706,795	39,433
16	376.3 Mains - Bare Steel	190,837	-	-	-	190,837	-
17	376.4 Mains - Plastic	104,050,393	9,284,825	(600,390)	-	112,734,828	7,607,356
18	376.5 Mains - Joint Seals	542,145	-	-	-	542,145	-
19	376.6 Mains - Cathodic Protection	1,005,475	54,885	-	-	1,060,360	22,380
20	376.8 Mains - Cast Iron	28,455	-	-	-	28,455	-
21	378.2 Mea & Reg Station Eq, Regulating	4,400,294	3,002,141	(279,719)	-	7,122,716	166,266
22	379 Mea & Reg Ta-G	39,266	-	-	-	39,266	-
23	380 Services	74,470,438	5,463,157	(87,804)	-	79,845,791	2,991,256
24	381 Meters	4,086,446	493,715	(241,099)	-	4,339,063	285,548
25	382 Meter Installations	23,126,115	2,038,526	(1,108,186)	-	24,056,455	1,945,231
26	383 House Regulators	685,777	43,536	-	-	729,313	4,237
27	386 Water Heaters/Conversion Burners	1,823,459	159,350	(88,909)	-	1,893,900	84,996
28	Total Distribution Plant	242,328,242	25,727,443	(2,486,538)	87,035	265,656,182	13,148,334
29	General Plant:						
30	389-1 Land	232,947	-	-	-	232,947	-
31	391.10 Off Furn & Eq.- Unspecified	431,834	65,465	-	-	497,299	10,836
32	393 Stores Equipment	31,520	-	-	-	31,520	-
33	394.10 Tools, Garage & Service Equipment	1,314,945	54,709	-	-	1,369,654	60,767
34	396 Power Operated Equipment	75,266	-	-	-	75,266	-
35	397 Communication Equipment	1,639,792	237,572	(37,264)	-	1,840,100	33,380
36	397.25 Comm EQ, Metscan/Telemet	112,656	-	-	-	112,656	-
37	397.35 ERT Automatic Reading Dev-G	3,126,899	212,363	-	-	3,339,262	130,884
38	Total General Plant	6,965,859	570,110	(37,264)	-	7,498,705	235,867
39	Total Plant in Service	\$ 260,817,025	\$ 27,257,599	\$ (2,690,423)	\$ (0)	\$ 285,384,202	\$ 13,988,050

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
ACCUMULATED DEPRECIATION & AMORTIZATION
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-4-4
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LINE NO.	(1) Account Name	(2) RESERVE BALANCE 1/1	(3) RETIREMENTS	(4) TRANSFER ADJ	(5) COST OF REMOVAL	(6) SALVAGE	(7) DEPRECIATION	(8) RESERVE BALANCE 12/31
1	Amortizable Plant:							
2	303 Misc Intangible Plant	\$ 4,080,484	\$ -	\$ -	\$ -	\$ -	816,977	\$ 4,897,461
3	Total Amortizable Plant	4,080,484	-	-	-	-	816,977	4,897,461
4	Mfg. Gas Produc. Plant:							
5	305 Struct. And Improvements	129,465	(75,459)	(54,380)	-	-	-	(374)
6	320 Other Equipment	2,756	(7,006)	(188)	-	-	-	(4,438)
7	321 LNG Equipment	56,611	(84,156)	-	-	-	-	(27,544)
8	Total Mfg Gas Prod. Plant	188,832	(166,621)	(54,568)	-	-	-	(32,357)
9	Distribution Plant:							
10	375.2 Structures - City Gate Meas & Reg	23,676	(1,906)	-	(144,400)	-	636	(121,994)
11	375.7 Structures - Other Dist Sys	618,738	-	54,568	-	-	44,850	718,156
12	376.2 Mains - Coated/Wrapped	3,615,660	(78,525)	-	(96,639)	-	783,669	4,224,164
13	376.3 Mains - Bare Steel	(2,132,784)	-	-	-	-	-	(2,132,784)
14	376.4 Mains - Plastic	33,956,974	(600,390)	-	(220,844)	-	3,247,143	36,382,883
15	376.5 Mains - Joint Seals	542,145	-	-	-	-	-	542,145
16	376.6 Mains - Cathodic Protection	638,564	-	-	-	-	44,096	682,660
17	376.8 Mains - Cast Iron	(1,187,409)	-	-	-	-	-	(1,187,409)
18	378.2 Mea & Reg Station Eq, Regulating	988,517	(279,719)	-	(272,577)	-	230,155	666,376
19	379 Mea & Reg Ta-G	5,058	-	-	-	-	1,374	6,432
20	380 Services	25,894,274	(87,804)	-	(227,967)	-	2,900,993	28,479,497
21	381 Meters	1,376,120	(241,099)	-	(52,894)	-	144,485	1,226,613
22	382 Meter Installations	7,216,618	(1,108,186)	-	(94,033)	-	844,898	6,859,297
23	383 House Regulators	188,268	-	-	-	-	24,134	212,402
24	386 Water Heaters/Conversion Burners	941,396	(88,909)	-	(13,917)	11,358	109,637	959,565
25	Total Distribution Plant	72,685,816	(2,486,538)	54,568	(1,123,270)	11,358	8,376,070	77,518,004
26	General Plant:							
27	391.10 Off Furn & Eq.- Unspecified	256,028	-	-	-	-	42,050	298,078
28	393 Stores Equipment	31,511	-	-	-	-	-	31,511
29	394.10 Tools, Garage & Service Equipment	713,214	-	-	-	-	72,528	785,741
30	396 Power Operated Equipment	75,266	-	-	-	-	-	75,266
31	397 Communication Equipment	1,453,916	(37,264)	-	(5,020)	-	158,970	1,570,602
32	397.25 Comm EQ, Metscan/Telemet	112,656	-	-	-	-	-	112,656
33	397.35 Comm EQ, Itron Equip	2,550,675	-	-	(11,340)	-	226,965	2,766,299
34	Total General Plant	5,193,266	(37,264)	-	(16,360)	-	500,512	5,640,154
4	Total Accumulated Depreciation & Amortization	\$ 82,148,399	\$ (2,690,423)	\$ -	\$ (1,139,630)	\$ 11,358	\$ 9,693,559	\$ 88,023,263

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
RATE BASE
12 MONTHS ENDED DECEMBER 31, 2020

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		(1)	(3)	(4)	(5)	(6)	(7)
LINE NO.	DESCRIPTION	RATE BASE					
		TEST YEAR AVERAGE ⁽¹⁾	5 QUARTER AVERAGE	AT DECEMBER 31, 2020	PRO FORMA ADJUSTMENTS	PRO FORMA RATE BASE AT DECEMBER 31, 2020	
1	Utility Plant In Service	\$ 289,824,481	\$ 286,491,423	\$ 299,372,252	\$ 1,873,246	\$ 301,245,498	
2	Less: Reserve for Depreciation	85,085,831	85,651,383	88,023,262	1,350,190	89,373,452	
3	Net Utility Plant	204,738,650	200,840,040	211,348,990	523,056	211,872,045	
4	Add: M&S Inventories	2,671,150	2,770,028	2,773,457	-	2,773,457	
5	Prepayments	740,275	1,213,708	64,895	-	64,895	
6	Cash Working Capital ⁽²⁾	1,773,194	1,773,194	1,773,194	235,191	2,008,385	
7	Sub-Total	5,184,619	5,756,930	4,611,547	235,191	4,846,738	
8	Less: Net Deferred Income Taxes	\$ 20,221,877	\$ 20,784,379	\$ 21,177,756	\$ -	\$ 21,177,756	
9	Excess Deferred Income Taxes	6,572,092	6,572,092	6,572,092	-	6,572,092	
10	Customer Advances	-	-	-	-	-	
11	Customers Deposits	269,548	264,461	249,677	-	249,677	
12	Sub-Total	27,063,517	27,620,932	27,999,526	-	27,999,526	
13	Rate Base	\$ 182,859,752	\$ 178,976,038	\$ 187,961,010	\$ 758,247	\$ 188,719,257	
14	Net Operating Income Applicable To Rate Base	\$ 10,066,533	\$ 10,066,533	\$ 10,066,533		\$ 8,946,016	
15	Rate of Return	5.51%	5.62%	5.36%		4.74%	

Notes

(1) Two Point Average

(2) Computed Working Capital Based on Test Year O&M Expenses. Refer to Schedule RevReq-5-2

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
RATE BASE ITEMS
QUARTERLY BALANCES

Schedule RevReq-5-1
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LINE NO.	(1) DESCRIPTION	(2) DECEMBER 31 2019	(3) MARCH 31 2020	(4) JUNE 30 2020	(5) SEPTEMBER 30 2020	(6) DECEMBER 31 2020	(7) 5 QUARTER AVERAGE
1	Utility Plant in Service						
2	Plant In Service	\$ 260,817,025	\$ 266,498,877	\$ 269,468,172	\$ 272,008,852	\$ 285,384,202	\$ 270,835,426
3	Completed Construction not Classified	19,459,684	16,390,088	14,114,541	14,327,620	13,988,050	15,655,997
4	Total Utility Plant in Service	280,276,709	282,888,965	283,582,713	286,336,471	299,372,252	286,491,423
5	Depreciation Reserve	\$ (82,148,399)	\$ (84,295,016)	\$ (86,310,091)	\$ (87,480,144)	\$ (88,023,262)	\$ (85,651,383)
6	Add:						
7	M&S Inventories						
8	Material and Supplies	\$ 2,268,328	\$ 2,387,075	\$ 2,514,326	\$ 2,569,166	\$ 2,416,575	\$ 2,431,094
9	Stores Expense Undistributed	300,515	417,170	334,238	285,865	356,883	338,934
10	Total M&S Inventories	\$ 2,568,843	\$ 2,804,245	\$ 2,848,563	\$ 2,855,032	\$ 2,773,457	\$ 2,770,028
11	Prepayments	\$ 1,415,655	\$ 1,415,655	\$ 1,415,655	\$ 1,756,682	\$ 64,895	\$ 1,213,708
12	Cash Working Capital	\$ 1,773,194	\$ 1,773,194	\$ 1,773,194	\$ 1,773,194	\$ 1,773,194	\$ 1,773,194
13	Less:						
14	Total Deferred Income Taxes						
15	Def Inc Tax - Accel Depr	\$ 20,062,817	\$ 22,388,845	\$ 22,014,104	\$ 21,283,095	\$ 22,009,122	\$ 21,551,597
16	Def Inc Tax - FAS 87 / 106	(775,910)	(788,563)	(774,047)	(591,877)	(788,419)	(743,763)
17	Def Inc Tax - Bad Debt	(19,095)	(26,052)	(10,935)	(10,989)	(41,133)	(21,641)
18	Def Inc Tax - Def Rate Case Costs	0	0	0	0	0	-
19	Def Inc Tax - Insurance Claim	(1,814)	(1,814)	(1,814)	(1,814)	(1,814)	(1,814)
20	Total Deferred Income Taxes	\$ 19,265,998	\$ 21,572,415	\$ 21,227,308	\$ 20,678,415	\$ 21,177,756	\$ 20,784,379
21	Less: Excess Deferred Income Taxes	\$ 6,572,092	\$ 6,572,092	\$ 6,572,092	\$ 6,572,092	\$ 6,572,092	\$ 6,572,092
22	Less: Customer Advances	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
23	Less: Customer Deposits	\$ 289,419	\$ 269,680	\$ 263,516	\$ 250,011	\$ 249,677	\$ 264,461
24	Rate Base	<u>\$ 177,758,493</u>	<u>\$ 176,172,855</u>	<u>\$ 175,247,118</u>	<u>\$ 177,740,716</u>	<u>\$ 187,961,010</u>	<u>\$ 178,976,038</u>

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
CASH WORKING CAPITAL
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-5-2
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	(1)	(2)	(3)	(4)	(5)
LINE NO.	DESCRIPTION	REFERENCE	TEST YEAR ACTUAL	PRO FORMA ADJUSTMENTS	TEST YEAR PRO FORMA
1	Distribution O&M Expense	Schedule RevReq-2	\$ 13,332,381	\$ 946,840	\$ 14,279,221
2	Tax Expense	Schedule RevReq-2	4,452,919	1,412,146	5,865,065
3	Total		\$ 17,785,300	\$ 2,358,986	\$ 20,144,286
4	Cash Working Capital Requirement:				
5	Other O&M Expense Days Lag (1) / 366	36 days	9.97%	9.97%	9.97%
6	Total Cash Working Capital	Line 5 X Line 3	\$ 1,773,194	\$ 235,191	\$ 2,008,385

Notes

(1) Refer to Lead-Lag Study in Direct Testimony of Daniel Hurstak

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
SUPPLEMENTAL PLANT PRO FORMA ADJUSTMENT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-5-3
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LINE NO.	(1) DESCRIPTION	(2) BALANCE 12/31/2020
1	Plant In Service:	
2	<u>New Hampshire</u>	
3	304 Land - Barberry Lane	\$ 6,816
4	Total NH	\$ 6,816
5	<u>Maine</u>	
6	360 Land - Lewiston	\$ 58,301
7	361 Structures & Improvements	568,201
8	362 Gas Holders	3,878,347
9	363 Other Equipment	87,313
10	Total ME	\$ 4,592,161
11	Total Plant In Service NH And ME	\$ 4,598,977
12	NH Allocation Via Annual Proportional Responsibility Factor	40.88% \$ 1,880,062
13	ME Allocation Via Annual Proportional Responsibility Factor	59.12% \$ 2,718,915
14	Depreciation Reserve:	
15	<u>New Hampshire</u>	
16	Total NH	\$ -
17	<u>Maine</u>	
18	361 Structures & Improvements	\$ 267,178
19	362 Gas Holders	2,943,652
20	363 Other Equipment	91,983
21	Total ME	\$ 3,302,812
22	Total Depreciation Reserve NH And ME	\$ 3,302,812
23	NH Allocation Via Annual Proportional Responsibility Factor	40.88% \$ 1,350,190
24	ME Allocation Via Annual Proportional Responsibility Factor	59.12% \$ 1,952,623
25	Supplemental Plant Adjustment	
26	NH Supplemental Plant Adjustment (Line 12 - Line 4)	\$ 1,873,246
27	ME Supplemental Plant Adjustment (Line 13 - Line 10)	\$ (1,873,246)
28	Supplemental Depreciation Reserve Adjustment	
29	NH Supplemental Plant Adjustment (Line 23 - Line 16)	\$ 1,350,190
30	ME Supplemental Plant Adjustment (Line 24 - Line 21)	\$ (1,350,190)

NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
DEFERRED INCOME TAX PRO FORMA ADJUSTMENT
SETTLEMENT ADJUSTMENT PURSUANT TO DOCKET 2008-155
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-5-4
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LINE NO.	(1) DESCRIPTION	(2)
		DECEMBER 31 2020
1	Nisource Original Plant Federal and State DIT Basis	\$ 4,053,514
2	Unitil Acquired Plant Federal and State DIT Basis	5,319,173
3	Greater of Line 1 or Line 2 to be Utilized as DIT Basis per Stipulation	<u>\$ 5,319,173</u>
4	Post-Acquisition Capital Expenditures Federal and State DIT Basis	\$ 29,619,418
5	Net Operating Loss DIT Related to Rate Base at 12/31/20	(12,929,468)
6	Total Plant and Capex Federal and State DIT to be Used in Rate Base (Line 3 + Line 4 + Line 5)	<u>\$ 22,009,122</u>
7	Less Test Year: Def Inc Tax - Accel Depr	<u>22,009,122</u>
8	Required Pro Forma Adjustment (Line 6 - Line 7)	<u>\$ -</u>

NORTHERN UTILITIES, INC.
WEIGHTED AVERAGE COST OF CAPITAL
5 QUARTER AVERAGE ENDED DECEMBER 31, 2020 PRO FORMA

Schedule RevReq-6
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LINE NO.	(1) DESCRIPTION	(2) AMOUNT	(3) PROFORMA ADJUSTMENT	(4) PROFORMED AMOUNT	(5) WEIGHT	(6) COST OF CAPITAL	(7) WEIGHTED COST OF CAPITAL	(8) REFERENCE
1	Common Stock Equity	\$ 229,204,938	\$ -	\$ 229,204,938	52.47%	10.30%	5.40%	Schedule RevReq 6-1 and 6-2
2	Preferred Stock Equity	-	-	-	0.00%	0.00%	0.00%	Schedule RevReq 6-1 and 6-3
3	Long Term Debt	207,640,000	-	207,640,000	47.53%	4.93%	2.34%	Schedule RevReq 6-1 and 6-4
4	Short Term Debt	-	-	-	0.00%	1.69%	0.00%	Schedule RevReq 6-1 and 6-5
5	Total	<u>\$ 436,844,938</u>	<u>\$ -</u>	<u>\$ 436,844,938</u>	<u>100.00%</u>		<u>7.75%</u>	

NORTHERN UTILITIES, INC.
CAPITAL STRUCTURE FOR RATEMAKING PURPOSES
5-QUARTER AVERAGE ENDED DECEMBER 31, 2020 PRO FORMA

Schedule RevReq-6-1
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LINE NO.	(1) DESCRIPTION	(2) DECEMBER 31 2019	(3) MARCH 31 2020	(4) JUNE 30 2020	(5) SEPTEMBER 30 2020	(6) DECEMBER 31 2020	(7) 5 QUARTER AVERAGE	(3) PROFORMA ADJUSTMENT	(8) PROFORMA AMOUNT
1	Common Stock Equity								
2	Common Stock	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	\$ 1,000
3	Misc. Paid In Capital	200,699,000	200,699,000	205,699,000	205,699,000	207,074,000	203,974,000	-	203,974,000
4	Retained Earnings	24,380,042	29,943,726	26,634,154	20,738,662	24,453,104	25,229,938	-	25,229,938
5	Total Common Stock Equity	225,080,042	230,643,726	232,334,154	226,438,662	231,528,104	229,204,938	-	229,204,938
6	Preferred Stock Equity	-	-	-	-	-	-	-	-
7	Long-Term Debt	198,200,000	190,000,000	190,000,000	230,000,000	230,000,000	207,640,000	-	207,640,000
8	Short-Term Debt ⁽¹⁾	-	-	-	-	-	-	-	-
9	Total	\$ 423,280,042	\$ 420,643,726	\$ 422,334,154	\$ 456,438,662	\$ 461,528,104	\$ 436,844,938	\$ -	\$ 436,844,938
10	<u>Capital Structure Ratios</u>								
11	Common Stock Equity	53.18%	54.83%	55.01%	49.61%	50.17%	52.47%		52.47%
12	Preferred Stock Equity	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
13	Long-Term Debt	46.82%	45.17%	44.99%	50.39%	49.83%	47.53%		47.53%
14	Short-Term Debt ⁽¹⁾	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		0.00%
15	Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		100.00%

Notes

(1) For ratemaking purposes the Company has imputed zero short-term debt

**NORTHERN UTILITIES, INC.
COST OF COMMON EQUITY CAPITAL
12 MONTHS ENDED DECEMBER 31, 2020**

**Schedule RevReq-6-2
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**THE INFORMATION CONCERNING THE COST OF COMMON EQUITY CAPITAL IS PROVIDED
IN THE TESTIMONY AND EXHIBITS OF MR. JOHN COCHRANE**

**NORTHERN UTILITIES, INC.
WEIGHTED AVERAGE COST OF PREFERRED STOCK
12 MONTHS ENDED DECEMBER 31, 2020**

**Schedule RevReq-6-3
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NORTHERN UTILITIES, INC. DOES NOT HAVE PREFERRED STOCK OUTSTANDING

NORTHERN UTILITIES, INC.
WEIGHTED AVERAGE COST OF LONG-TERM DEBT
DECEMBER 31, 2020 PRO FORMA

Schedule RevReq-6-4
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	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
LINE NO.	ISSUE	DATE ISSUED	TERM	FACE VALUE	OUTSTANDING AMOUNT	PROFORMA ADJUSTMENT	PROFORMED OUTSTANDING AMOUNT	ISSUANCE COSTS	NET PROCEEDS RATIO [(5)-(9)/(5)]	UNAMORTIZED ISSUANCE COSTS	NET PROCEEDS OUTSTANDING (8)-(11)	ANNUAL ISSUANCE COST	ANNUAL INTEREST COST Rate * (8)	TOTAL ANNUAL COST (13)+(14)	COST RATE BASED ON NET PROCEEDS (15)/[(8)-(11)]	
1	7.72%	Sr. Notes	12/3/2008	30 Yrs	\$ 50,000,000	\$ 50,000,000	\$ -	\$ 50,000,000	\$ 435,899	99.13%	\$ 260,401	\$ 49,739,599	\$ 14,534	\$ 3,860,000	\$ 3,874,534	7.79%
2	4.42%	Sr. Notes	10/15/2014	30 Yrs	50,000,000	50,000,000	-	50,000,000	482,981	99.03%	383,031	49,616,969	16,099	2,210,000	2,226,099	4.49%
3	3.52%	Sr. Notes	11/1/2017	10 Yrs	20,000,000	20,000,000	-	20,000,000	148,352	99.26%	101,374	19,898,626	14,835	704,000	718,835	3.61%
4	4.32%	Sr. Notes	11/1/2017	30 Yrs	30,000,000	30,000,000	-	30,000,000	222,528	99.26%	199,039	29,800,961	7,418	1,296,000	1,303,418	4.37%
5	4.04%	Sr. Notes	9/12/2019	30 Yrs	40,000,000	40,000,000	-	40,000,000	208,040	99.48%	225,229	39,774,771	6,954	1,616,000	1,622,954	4.08%
6	3.78%	Sr. Notes	9/15/2020	20 Yrs	40,000,000	40,000,000	-	40,000,000	227,434	99.43%	190,778	39,809,222	11,372	1,512,000	1,523,372	3.83%
7	Total				\$ 230,000,000	\$ 230,000,000	\$ -	\$ 230,000,000	\$ 1,725,233		\$ 1,359,851	\$ 228,640,149	\$ 71,212	\$ 11,198,000	\$ 11,269,212	4.93%

NORTHERN UTILITIES, INC.
COST OF SHORT-TERM DEBT
12 MONTHS ENDED DECEMBER 31, 2020

Schedule RevReq-6-5
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	(1)	(2)	(3)	(4)	(5)
LINE NO.	MONTH	MONTH-END AMOUNT OUTSTANDING	AVERAGE DAILY BORROWINGS	MONTHLY SHORT-TERM INTEREST	INTEREST RATE ⁽¹⁾
1	January 2020	28,666,840	\$ 25,109,148	\$ 60,854	2.86%
2	February 2020	24,794,114	23,351,619	52,155	2.82%
3	March 2020	28,316,841	27,127,612	49,312	2.15%
4	April 2020	27,939,753	25,053,060	39,502	1.92%
5	May 2020	26,822,898	25,283,108	29,299	1.37%
6	June 2020	25,298,270	24,327,028	26,512	1.33%
7	July 2020	33,152,219	29,181,116	32,655	1.32%
8	August 2020	37,754,315	34,429,766	38,141	1.31%
9	September 2020	4,906,721	20,504,100	21,844	1.30%
10	October 2020	18,132,923	9,559,681	10,476	1.29%
11	November 2020	22,751,664	19,566,665	20,656	1.29%
12	December 2020	26,747,022	24,606,907	27,020	1.30%
13	Average for the Year		24,008,317		1.69%

Notes

(1) The Interest Rate is calculated as follows: [Column (4) / # of days in month * 366] / Column (3).

**NORTHERN UTILITIES, INC.
HISTORICAL CAPITAL STRUCTURE
DECEMBER 31, 201X**

Schedule RevReq-6-6
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LINE NO.	(1) DESCRIPTION	(2) 2015	(3) 2016	(4) 2017	(5) 2018	(6) 2019
1	Common Stock Equity	\$ 123,556,063	\$ 155,183,729	\$ 191,323,791	\$ 197,232,465	\$ 225,080,042
2	Preferred Stock Equity	-	-	-	-	-
3	Long-Term Debt	155,000,000	145,000,000	185,000,000	166,600,000	198,200,000
4	Total	<u>\$ 278,556,063</u>	<u>\$ 300,183,729</u>	<u>\$ 376,323,791</u>	<u>\$ 363,832,465</u>	<u>\$ 423,280,042</u>
5	Short-Term Debt (Year-End)	17,820,632	36,977,214	2,994,930	58,154,005	28,494,680

**NORTHERN UTILITIES, INC.
HISTORICAL CAPITALIZATION RATIOS
DECEMBER 31, 201X**

**Schedule RevReq-6-7
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LINE NO.	(1) DESCRIPTION	(2) 2015	(3) 2016	(4) 2017	(5) 2018	(6) 2019
1	Common Stock Equity	44.36%	51.70%	50.84%	54.21%	53.18%
2	Preferred Stock Equity	0.00%	0.00%	0.00%	0.00%	0.00%
3	Long-Term Debt	55.64%	48.30%	49.16%	45.79%	46.82%
4	Total	100.00%	100.00%	100.00%	100.00%	100.00%

**NORTHERN UTILITIES, INC. - NEW HAMPSHIRE
RATE CASE EXPENSE COSTS
PROJECTED THROUGH THE COMPLETION OF THE CASE**

**Schedule RevReq-7
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LINE NO.	(1)		(2)	
	DESCRIPTION		AMOUNT	
1	Cost Studies and Rate Design		\$	200,000
2	Decoupling			45,000
3	Depreciation Study			75,000
4	Return On Equity			110,000
5	Administration and Miscellaneous Expenses			5,000
6	Commission Costs			300,000
7	Total			<u>735,000</u>

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