NORTHERN UTILITIES, INC. - NEW HAMPSHIRE WORKPAPERS SUPPORTING REVENUE REQUIREMENT 12 MONTHS ENDED DECEMBER 31, 2020 Northern Utilities, Inc. Gas Inc Stmt - NH - YTD R\_NU\_4\_BF\_NH Workpaper - Income Statement
Schedule 4 NH
4/20/2021
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For Periods Ending December 31, 2020
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Base         Flowthru         Total         Base         Flowthru           OPERATING REVENUES         Sales:         Total         Base         Flowthru           Sales:         Residential (480)         19,612,987         14,904,240         34,517,227         19,232,153         10,809,182	Total 30,041,335 22,321,900 9,739,814
Residential (480) 19,612,987 14,904,240 34,517,227 19,232,153 10,809,182	22,321,900
	22,321,900
General Service (481) 11,028,771 17,278,063 28,306,834 10,623,702 11,698,198	9,739,814
Firm Transport Revenues (484, 489) (External Sup) 8,612,979 1,216,889 9,829,867 8,583,266 1,156,548	
Sales for Resale (483) - 2,870,979 - 1,107,459	1,107,459
Other Sales (495) 236,169 (3,751,608) (3,515,439) (201,864) 2,446,481	2,244,617
Total Sales 39,490,906 32,518,563 72,009,468 38,237,257 27,217,869	65,455,125
Other Operating Revenues:  Late Charge (487) 76,773 - 76,773 36,761 -	36,761
Misc. Service Revenues (488) 875,755 - 875,755 852,304 -	852,304
Rent from Property (493 & 457) 200,952 - 200,952 - 218,628 -	218,628
Other Revenues - (311,587) - 120,656	120,656
Total Other Operating Revenues 1,153,480 (311,587) 841,893 1,107,692 120,656	1,228,348
TOTAL OPERATING REVENUES 40,644,386 32,206,975 72,851,361 39,344,949 27,338,525	66,683,473
OPERATING EXPENSES Operation & Maint. Expenses:	
Production (710-813) 477,446 27,749,285 28,226,731 449,736 23,095,124	23,544,860
Transmission (850-857) 72,713 - 72,713 63,829 -	63,829
Distribution (870-894) (586) 3,509,448 - 3,509,448 - 3,733,377 -	3,733,377
Cust. Accounting (901-905) 2,580,251 188,507 2,768,758 2,508,645 99,544	2,608,189
Cust. Service & Info (906-910) 71,870 2,247,505 2,319,375 73,074 2,268,632	2,341,706
Sales Expenses (911-916) 64,467 - 64,467 - 69,178 -	69,178
Admin. & General (920-935) 7,607,751 71,540 7,679,291 6,682,552 58,225	6,740,777
Total O & M Expenses 14,383,947 30,256,837 44,640,784 13,580,391 25,521,524	39,101,915
Other Operating Expenses:	
Deprtn. & Amort. (403-407) 8,884,559 120,384 9,004,943 9,693,559 (0)	9,693,559
Taxes-Other Than Inc. (408) 4,306,298 - 4,306,298 - 4,867,774 -	4,867,774
Federal Income Tax (409) 52,380 - 52,380 (30,211) - State Franchise Tax (409) (309,547) - (309,547) (384,644) -	(30,211)
State Franchise Tax (409) - (309,547) - (309,547) - (384,644) - Def. Income Taxes (410,411) - 2,975,683 - 2,975,683 - 2,600,179 -	(384,644) 2,600,179
Total Other Operating Expenses 15,909,373 120,384 16,029,757 16,746,657 (0)	16,746,657
TOTAL OPERATING EXPENSES 30,293,320 30,377,221 60,670,541 30,327,047 25,521,524	55,848,571
NET UTILITY OPERATING INCOME 10,351,066 1,829,755 12,180,820 9,017,901 1,817,001	10,834,902
OTHER INCOME & DEDUCTIONS Other Income:	
Other Income:  AFUDC - Other Funds (41901)	_
Other (415- 421) 280,289 (37,502) 242,787 231,700 (25,362)	206,339
Other Income Deduc. (425, 426)  232,636  - 232,636  - 232,636  - 232,636	151,744
Taxes Other than Income Taxes:	101,744
Income Tax, Other Inc & Ded 2,752 - 2,752 14,786 -	14,786
Net Other Income (Deductions) 44,901 (37,502) 7,400 65,170 (25,362)	39,809
GROSS INCOME 10,395,967 1,792,253 12,188,220 9,083,072 1,791,639	10,874,711
Interest Charges (427 - 432) 4,670,265 3,717 4,673,982 4,777,155 1,286	4,778,441
NET INCOME 5,725,702 1,788,536 7,514,238 4,305,917 1,790,353	6,096,270

Workpaper - Flowthrough Detail 4/20/2021 10:21:09 AM For Periods Ending December 31, 2020 <u>Table of Contents</u>

	Davidantial									Table of Contents						
	Commodity Demand COG	Working Capital	Bad Debt	Residential Low Income Assistance	Energy Efficiency	Environ Response Costs	Rate Case Exp	Recoup	Lost Revenue	On-Bill Financing	Total Flowthru	Total Base	Total New Hampshire Division		Cost of Gas Total	LDAC Flowthrough Total
OPERATING REVENUES																
Sales:																
Residential (480)	\$ 9,402,656 \$		Ψ σσ,.σ.	\$ 15,479	\$ 977,734	\$ 103,733 \$	0 \$	(0) \$	236,021 \$	-	+,,	\$ 19,232,153	\$ 30,041,335	\$	9,476,216 \$	1,332,967
General Service (481)	10,833,043	7,005	75,810	77,272	542,605	119,301	(25)	11	43,177	-	11,698,198	10,623,702	22,321,900		10,915,858	782,341
Firm Transport Revenues (484, 489) (External Sup) Sales for Resale (483)	- 1,107,459	-	-	114,130	802,535	175,875 -	25	(11) -	63,995	-	1,156,548 1,107,459	8,583,266	9,739,814 1,107,459		0 1,107,459	1,156,548
Other Sales (495)	2,291,577	- 11,582	(43,051)	- 115,868	- 41,657	- -	-	-	- 15,896	- 12,952	2,446,481	- (201,864)	2,244,617		2,260,108	186,373
Other Gales (400)	2,231,377	11,502	(40,001)	110,000	41,007				13,030	12,552	2,440,401	(201,004)	2,244,017		2,200,100	100,373
Total Sales	23,634,735	25,362	99,544	322,748	2,364,531	398,908	(0)	-	359,089	12,952	27,217,869	38,237,257	65,455,125		23,759,640	3,458,228
Other Operating Revenues:	-															
Late Charge (487)	-	-	-	-	-	-	-	-	-	-	-	36,761	36,761		-	-
Misc. Service Revenues (488)	-	-	-	-	-	-	-	-	-	-	-	852,304	852,304		-	-
Rent from Property (493 & 457)	-	-	-	-	-	-	-	-	-	-	-	218,628	218,628		-	-
Other Revenues	120,656	-	-	-	-	-	-	-	-	-	120,656	-	120,656		120,656	-
Total Other Operating Revenues	120,656	-	-	-	-	-	-	-	-	-	120,656	1,107,692	1,228,348	_	120,656	-
TOTAL OPERATING REVENUES	23,755,391	25,362	99,544	322,748	2,364,531	398,908	(0)	-	359,089	12,952	27,338,525	39,344,949	66,683,473		23,880,296	3,458,228
OPERATING EXPENSES																
Operation & Maint. Expenses:																
Production (710-813)	22,696,215	-	-	-	-	398,908	-	-	-	-	23,095,124	449,736	23,544,860		22,696,215	398,908
Transmission (850-857)	-	-	-	-	-	-	-	-	-	-	-	63,829	63,829		-	-
Distribution (870-894) (586)	-	-	-	-	-	-	-	-	-	-	-	3,733,377	3,733,377		-	-
Cust. Accounting (901-905)	-	-	99,544	-	-	-	-	-	-	-	99,544	2,508,645	2,608,189		99,544	-
Cust. Service & Info (906-910)	-	-	-	-	2,255,679	-	-	-	-	12,952	2,268,632	73,074	2,341,706		(0)	2,268,632
Sales Expenses (911-916)	-	-	-	-	-	-	-	-	-	-	-	69,178	69,178		-	-
Admin. & General (920-935)	-	-	-	58,225	-	-	-	-	-	-	58,225	6,682,552	6,740,777		-	58,225
Total O & M Expenses	22,696,215	-	99,544	58,225	2,255,679	398,908	-	-	-	12,952	25,521,524	13,580,391	39,101,915		22,795,759	2,725,765
Other Operating Expenses:																
Deprtn. & Amort. (403-407)	-	-	-	-	-	-	(0)	-	-	-	(0)	9,693,559	9,693,559		-	(0)
Taxes-Other Than Inc. (408)	-	-	-	-	-	-	-	-	-	-	-	4,867,774	4,867,774		-	-
Federal Income Tax (409)	-	-	-	-	-	-	-	-	-	-	-	(30,211)	(30,211)		-	-
State Franchise Tax (409)	-	-	-	-	-	-	-	-	-	-	-	(384,644)	(384,644)		-	-
Def. Income Taxes (410,411)	-	-	-	-	-	-	-	-	-	-	-	2,600,179	2,600,179		-	-
Total Other Operating Expenses	-	-	-	-	-	-	(0)	-	-	-	(0)	16,746,657	16,746,657		-	(0)
TOTAL OPERATING EXPENSES	22,696,215	-	99,544	58,225	2,255,679	398,908	(0)	-	-	12,952	25,521,524	30,327,047	55,848,571		22,795,759	2,725,765
NET UTILITY OPERATING INCOME	1,059,176	25,362	-	264,523	108,852	-	-	-	359,089	-	1,817,001	9,017,901	10,834,902		1,084,537	732,463
OTHER INCOME & DEDUCTIONS																
Other Income:																
Other (415- 421)	-	(25,362)	-	-	-	-	-	-	-	-	(25,362)	231,700	206,339		(25,362)	-
Other Income Deduc. (425, 426)	-	-	-	-	-	-	-	-	-	-	-	151,744	151,744		-	-
Taxes Other than Income Taxes:																
Income Tax, Other Inc & Ded	-	-	-	-	-	-	-	-	-	-	-	14,786	14,786		-	-
Net Other Income (Deductions)	-	(25,362)	-	-	-	-	-	-	-	-	(25,362)	65,170	39,809		(25,362)	-
GROSS INCOME	1,059,176	-	-	264,523	108,852	-	-	-	359,089	-	1,791,639	9,083,072	10,874,711	_	1,059,176	732,463
Interest Charges (427 - 432)	1,286	-	-	-	-	-	-	-	-	-	1,286	4,777,155	4,778,441		1,286	-
NET INCOME	\$ 1,057,890 \$	· - ;	\$ -	\$ 264,523	\$ 108,852	\$ - \$	- \$	- \$	359,089 \$	<del>-</del>	\$ 1,790,353	\$ 4,305,917	\$ 6,096,270	\$	1,057,890 \$	732,463
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#### Workpaper - Cost of Gas <u>Table of Contents</u>

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

(1) (2) (3) (4)

LINE NO.	DESCRIPTION	TEST YEAR COST OF GAS	LESS: INDIRECT PRODUCTION & O.H.	COST OF GAS EXCL. PROD. & O.H.
	OPERATING REVENUES			
1	TOTAL SALES	23,759,640	1,057,890	22,701,750
2	TOTAL OTHER OPERATING REVENUES	120,656	-	120,656
3	TOTAL OPERATING REVENUES	23,880,296	1,057,890	22,822,406
4	OPERATING EXPENSES:			
5	PRODUCTION	22,696,215	-	22,696,215
6	TRANSMISSION	<u>-</u>	-	-
7	DISTRIBUTION	-	-	-
8	CUSTOMER ACCOUNTING	99,544	-	99,544
9	CUSTOMER SERVICE	(0)	-	(0)
10	SALES EXPENSE	-	-	-
11	ADMINISTRATIVE & GENERAL	-	-	-
12	DEPRECIATION	-	-	-
13	AMORTIZATIONS	-	-	-
14	TAXES OTHER THAN INCOME	-	-	-
15	FEDERAL INCOME TAX	-	-	-
16	STATE INCOME TAX	-	-	-
17	DEFERRED FEDERAL & STATE INCOME TAXES	-	-	-
18	INTEREST ON CUSTOMER DEPOSITS	-	-	-
19	TOTAL OPERATING EXPENSES	22,795,759	-	22,795,759
20	NET OPERATING INCOME	1,084,537	1,057,890	26,647

# NORTHERN UTILITIES, INC. - NEW HAMPSHIRE SPECIAL CONTRACT REVENUE ADJUSTMENT - CUSTOMER 1 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 1.1
REDACTED
Table of Contents

Confidential Special Contract Rates

Effective March 1, 2021

Meters
Customer Charge
Customer Charge Revenue

Monthly Fixed Charge for First 200,000 Therms or Less Therms - First Step Consumption Charge - First Step

Excess (1) - For Gas Use between 200,000 and 300,000 Therms
Therms - Excess (1)

Consumption Charge - Excess (1)
Consumption Charge Revenue - Excess (1)

Excess (2) - For Gas Use between 300,000 and 400,000 Therms
Therms - Excess (2)

Consumption Charge Payonus Excess (2)

Consumption Charge Revenue - Excess (2)

Excess (3) - For Gas Use Over 400,000 Therms
Therms - Excess (3)

Therms - Excess (3)

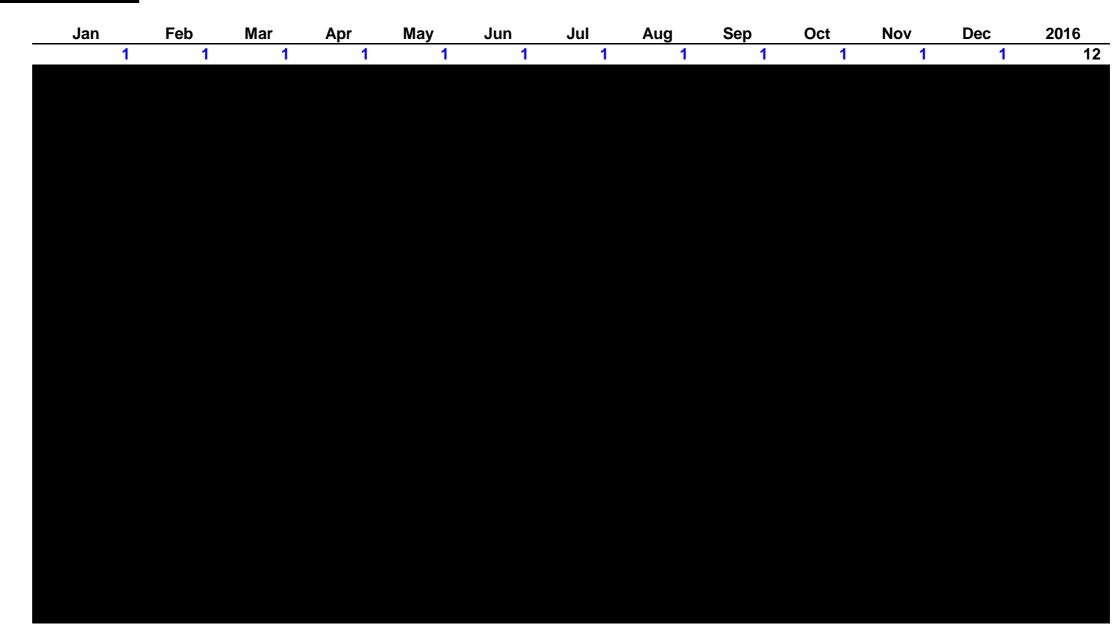
Consumption Charge - Excess (3)

Consumption Charge Revenue - Excess (3)

2021 Proforma Revenue

Less: 2020 Actual Revenue

Net Revenue Adjustment

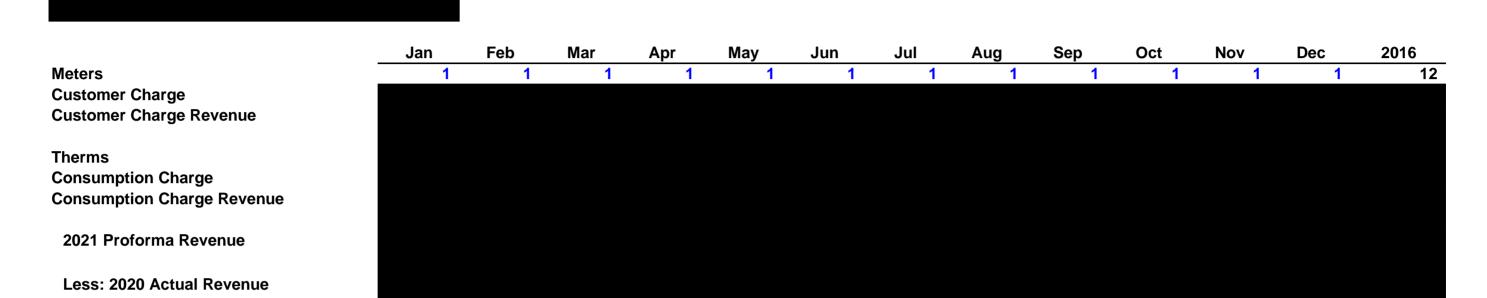


# NORTHERN UTILITIES, INC. - NEW HAMPSHIRE SPECIAL CONTRACT REVENUE ADJUSTMENT - CUSTOMER 2 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 1.2
REDACTED
Table of Contents

Confidential Special Contract Rates Effective December 1, 2020

**Net Revenue Adjustment** 



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

(1)

Workpaper 2.1 Table of Contents

(2)

LINE NO.	DESCRIPTION	TOTAL
1	Payroll - Five Months Ended May 31, 2020	\$ 1,902,372
2	2020 Salary & Wage Increase <sup>(1)</sup>	3.00%
3	Union Payroll Annualization	\$ 57,071

#### **Notes**

(1) Average Union increase of 3% effective June 1, 2020

# NORTHERN UTILITIES, INC. - NEW HAMPSHIRE UNION AND NONUNION PAYROLL/COMPENSATION (1) 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 2.2 Table of Contents

	(1)	(2)
LINE NO.	DESCRIPTION	TOTAL
1	Union Weekly Payroll <sup>(1)</sup>	\$ 3,475,844
2	Total Nonunion Payroll <sup>(1)</sup>	946,912
3	Total Payroll <sup>(2)</sup>	4,422,757
4	Payroll Capitalization <sup>(3)</sup>	(2,058,097)
5	Test Year O&M Payroll	\$ 2,364,660
	Notes	

#### **Notes**

- (1) Payroll Allocation to Union and Non-Union based on ADP 2020 Year End Payroll Registers
- (2) Includes Incentive Compensation at Target of \$58,992
- (3) Refer to Workpaper 2.3

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE PAYROLL SUMMARY FOR COMPUTATION OF PAYROLL BENEFIT RELATED OVERHEADS

(1)

(2)

LINE		2020 INCENTIVE
NO.	DESCRIPTION	COMP AT TARGET
4	O&M PAYROLL:	
1 2	OPERATIONS	1,325,952
3	MAINTENANCE	168,179
4	TOTAL O&M PAYROLL	1,494,131
5	CONSTRUCTION PAYROLL:	1,434,131
6	DIRECT	687,402
7	INDIRECT	1,007,550
8	TOTAL CONSTRUCTION PAYROLL	1,694,952
9	OTHER PAYROLL:	1,004,002
10	JOBBING	18,867
11	CLEARING ACCOUNTS	193,033
12	UNPRODUCTIVE TIME	165,091
13	MOBILE DATA SYSTEMS (MDS)	816,759
14	INCENTIVE COMPENSATION at TARGET	58,992
15	OTHER	23,646
16	TOTAL OTHER PAYROLL	1,276,387
17	TOTAL PAYROLL	4,465,470
17	TOTALTATROLL	4,403,470
18	O&M PAYROLL:	
19	OPERATIONS	1,325,952
20	MAINTENANCE	168,179
21	ALLOCATED CLEARING	54,513
22	ALLOCATED UNPRODUCTIVE	26,415
23	ALLOCATED MDS	780,163
24	ALLOCATED INCENTIVE COMPENSATION	9,439
25	TOTAL O&M PAYROLL	2,364,660
26	CONSTRUCTION PAYROLL:	
27	DIRECT	687,402
28	INDIRECT	1,007,550
29	ALLOCATED CLEARING	138,521
30	ALLOCATED UNPRODUCTIVE	138,676
31	ALLOCATED MDS	36,395
32	ALLOCATED INCENTIVE COMPENSATION	49,553
33	TOTAL CONSTRUCTION PAYROLL	2,058,097
34	TOTAL PAYROLL, NET OF OTHER PAYROLL	4,422,757
35	TOTAL OTHER PAYROLL:	
36	JOBBING	18,867
37	BELOW THE LINE MDS	201
38	OTHER	23,646
39	TOTAL OTHER PAYROLL	42,713
40	TOTAL PAYROLL, WITH INCENTIVE COMP ADJ TO TARGET	4,465,470

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

Workpaper 2.4 Table of Contents

(1)

Description		Amount
Northern Utilities, Inc. Payroll:		
Adjustment to reflect Incentive Compensation at Target		
Test Year Accrued Incentive Compensation	:	\$ 58,992
Incentive Compensation at Target		58,992
Test Year Accounting Adjustment to reflect Incentive Compensation at Target	_	-
Capitalized Incentive Compensation at	84.00% _	
Test Year Incentive Comp Accounting Adjustment to O&M	_	
USC Payroll, Allocated to Northern Utilities, Inc NH Division:		
Adjustment to reflect Incentive Compensation at Target		
Test Year Accrued Incentive Compensation at USC		3,412,143
Test Year Accrued Incentive Compensation Percentage Billed to NuNH In 2020	20.18%	688,571
Incentive Compensation at Target		688,571
Test Year Accounting Adjustment to reflect Incentive Compensation at Target	_	-
Capitalized Incentive Compensation at	32.52% _	
Test Year Incentive Comp Accounting Adjustment to O&M	_	-
	Northern Utilities, Inc. Payroll:  Adjustment to reflect Incentive Compensation at Target  Test Year Accrued Incentive Compensation Incentive Compensation at Target  Test Year Accounting Adjustment to reflect Incentive Compensation at Target  Capitalized Incentive Compensation at  Test Year Incentive Comp Accounting Adjustment to O&M  USC Payroll, Allocated to Northern Utilities, Inc NH Division:  Adjustment to reflect Incentive Compensation at Target  Test Year Accrued Incentive Compensation at USC  Test Year Accrued Incentive Compensation Percentage Billed to NuNH In 2020 Incentive Compensation at Target  Test Year Accounting Adjustment to reflect Incentive Compensation at Target  Capitalized Incentive Compensation at	Northern Utilities, Inc. Payroll:  Adjustment to reflect Incentive Compensation at Target  Test Year Accrued Incentive Compensation Incentive Compensation at Target Test Year Accounting Adjustment to reflect Incentive Compensation at Target  Capitalized Incentive Compensation at  Test Year Incentive Comp Accounting Adjustment to O&M  USC Payroll, Allocated to Northern Utilities, Inc NH Division:  Adjustment to reflect Incentive Compensation at Target  Test Year Accrued Incentive Compensation at USC  Test Year Accrued Incentive Compensation Percentage Billed to NuNH In 2020 Incentive Compensation at Target Test Year Accounting Adjustment to reflect Incentive Compensation at Target  Capitalized Incentive Compensation at

\$ 136,510

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

Line			Employe	e Census <sup>(1)</sup>			2021 R	atas <sup>(2)</sup>				01		
No	Coverage	- Med			ental -	- Medical Dental -				- Cost Dental -				
		CDHP	PPO	Plus	Standard	CDHP	PPO	Plus	Standard	CDHP	PPO	Plus	Standard	Total
1	Individual	6	5	11	-	\$ 792.45	\$ 1,090.53	\$ 46.56	\$ 45.21	\$ 4,755	\$ 5,453	\$ 512	\$ -	\$ 10,720
2	Two Person	2	8	11	-	1,362.76	1,966.94	83.34	80.82	2,726	15,736	917	-	19,378
3	Family	9	9	20	-	1,849.91	2,714.18	147.21	141.43	16,649	24,428	2,944	-	44,021
4	Total	17	22	42	-					24,129	45,616	4,373		74,118
5	2021 Annual Cost Based on E	mployee Enrolli	ments at Decen	nber 31, 2020						289,553	547,389	52,477	-	889,420
6	Employee Contribution (3)									(57,911)	(109,478)	(10,495)		(177,884)
7	Net Cost									231,642	437,912	41,982	-	711,536
8	Plus: Company Contribution	to HSA								14,000	-	-	-	14,000
9	Payments to Employees	s to Opt out								11,840	4,900			16,740
10	Total HSA and Opt out Payme	ents								25,840	4,900	-	-	30,740
11	Proformed 2021 Medical Cost	:								257,482	442,812	41,982	-	742,276
12	Projected Increase in Premiur	n Rates Effectiv	ve January 1, 20	)22 <sup>(4)</sup>						21,913	39,853	1,679		63,446
13	Proformed 2021 and 2022 Med	dical and Dental	Cost							279,396	482,665	43,661	-	805,721
14	Amount Chargeable to Capital	I <sup>(5)</sup>								(167,012)	(293,533)	(26,611)		(487,156)
15	Total Pro-formed Medical and	Dental Insuran	ce O&M Expens	se										318,565
16	Less Test Year O&M Expense	<b>(6)</b>												182,055

#### **Notes**

- (1) Employee Benefit Census as of December 31, 2020
- (2) Anthem and Northeast Delta Dental monthly insurance rates, effective January 1, 2021
- (3) Employee Contributions: 20%
- (4) Estimated increase effective January 1, 2022

Medical Increase 9.00%
Dental Increase 4.00%
(5) Capitalization Rate: 48.76%

17 Total O&M Medical & Dental Insurance Adjustment

(6) Refer to Workpaper 3.2

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

Workpaper 3.2 Table of Contents

	(1)		(2)
LINE			
NO.	Description		 Amount
1	Medical Insurance Expense		\$ 665,259
2	Benefits Cost Capitalized at	48.76%	(324,380)
3	Subtotal Medical Costs	•	340,879
4	Employee Contribution		(160,868)
5	Drug Subsidy		(10,252)
6	Subtotal	•	(171,121)
7	Net Test Year Medical Insurance Expense		169,758
8	Dental Insurance Expense		44,042
9	Benefits Cost Capitalized at	48.76%	(21,475)
10	Subtotal Dental Costs		22,567
11	Employee Contribution		(10,270)
12	Net Test Year Dental Costs		12,297
13	Net Test Year Medical & Dental Costs		\$ 182,055

# NORTHERN UTILITIES, INC. - NEW HAMPSHIRE MEDICAL AND DENTAL INSURANCE - UNITIL SERVICE CORP FOR THE 12 MONTHS ENDED DECEMBER 31, 2020

	-	_
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Line														
No.	Coverage	Employee Census <sup>(1)</sup>				2021 Rates (2)				Costs				
			dical		Dental		edical	De	Dental		Medical		ental	
		CDHP	PPO_	Plus	Standard	CDHP	PPO	Plus	Standard	CDHP	PPO_	Plus	Standard	Total
1	Individual	80	-	79	48	\$ 792.45	\$ 1,033.07	\$ 46.56	\$ 45.21	\$ 63,396	\$ -	\$ 3,678	\$ 2,170	\$ 69,244
2	Two Person	64	1	77	36	1,362.76	1,859.73	83.34	80.82	87,217	1,860	6,417	2,910	98,403
3	Family	82	1	100	79	1,849.91	2,564.50	147.21	141.43	151,693	2,565	14,721	11,173	180,151
4	Total	226	2	256	163					302,305	4,424	24,816	16,253	347,798
5	2021 Annual Cost Based	on Employee E	inrollments at	December 3	1, 2020					3,627,663	53,091	297,797	195,031	4,173,582
6	Employee Contribution (3	)								(725,533)	(10,618)	(59,559)	(39,006)	(834,716)
7	Net Cost									2,902,130	42,473	238,238	156,025	3,338,865
8	Plus: Company Contribu	tion to HSA								186,000	-	-	-	186,000
9	Payments to Emplo	oyees to Opt ou	ut							178,400	<u> </u>			178,400
10	Total HSA and Opt out Pa	ayments								364,400	-	-	-	364,400
11	Proformed 2021 Medical	Cost								3,266,531	42,473	238,238	156,025	3,703,266
12	Projected Increase in Pre	mium Rates Eff	fective Januar	ry 1, 2022 <sup>(4)</sup>						277,248	3,823	9,530	6,241	296,841
13	Proformed 2021 and 2022	2 Medical and D	ental Cost							3,543,778	46,295	247,767	162,266	4,000,106
12	Apportionment to NuNH	at 20.18%								715,134	9,342	49,999	32,745	807,221
13	Amount Chargeable to Ca	apital at	31.51%							(225,339)	(2,944)	(15,755)	(10,318)	(254,355)
14	Total Pro-formed Medica	l and Dental Ins	surance O&M I	Expense										552,866
15	Less Test Year O&M Exp	ense <sup>(5)</sup>												284,783
16	Total O&M Medical & Der	ntal Insurance A	Adjustment											\$ 268,083

#### **Notes**

- (1) Employee Benefit Census as of December 31, 2020.
- (2) Health Plans, Inc. and Northeast Delta Dental monthly insurance rates, effective January 1, 2021.
- (3) Employee Contributions: 20%
- (4) Estimated increase effective January 1, 2022

Medical Increase 9.00%
Dental Increase 4.00%

(5) Refer to Workpaper 3.4

# UNITIL SERVICE CORP. MEDICAL INSURANCE 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 3.4 Table of Contents

	(1)	(2)	(3)	(4)
NO.	Description	Medical	Dental	Total
1	Medical Insurance	\$ 2,587,331	\$ 304,575	\$ 2,891,906
2	Employee Contribution	(703,135)	(59,946)	(763,081)
3	Drug Subsidy	(34,106)	-	(34,106)
4	Subtotal	1,850,090	244,629	2,094,719
5	NuNH Apportionment at	19.85%	19.85%	19.85%
6	Expense Apportioned to NuNH	367,243	48,559	415,802
7	Capitalization Rate at	31.51%	31.51%	31.51%
8	NuNH Capitalization	(115,718)	(15,301)	(131,019)
9	Net USC Test Year Medical & Dental Costs Allocated to NuNH	\$ 251,525	\$ 33,258	\$ 284,783

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE PENSION EXPENSE 2020 ACTUAL EXPENSE RECORDED AND 2021 FORECAST EXPENSE

Workpaper 4.1 Table of Contents

	(1)	(2)			(3)	(4)		
LINE NO.	DESCRIPTION	<u>_</u>	2020 EST YEAR		2021 ORECAST EXPENSE	PROFORMA ADJUSTMENT		
A1 A2	USC Labor & Overhead Charged to NU-NH NU-NH Capitalization Rates		19.85% 48.76%		19.85% 48.76%			
A3 A4	USC Labor & Overhead to Construction Total USC Pension Expense	\$	31.51% 3,032,609	\$	31.51% 3,232,617			
	Calculation of Pension Expense, net of Amounts Chargeable to Construction							
	A. NU-NH Pension Expense, net:							
1	NU-NH Pension Expense	\$	546,677	\$	489,345	\$	(57,332)	
2	Less: Amounts Chargeable to Construction		(266,560)		(238,605)		27,955	
3	NU-NH Pension Expense, net	\$	280,117	\$	250,740	\$	(29,377)	
	B. Unitil Service Pension Expense Allocated to NU-NH, net:							
4	Unitil Service Pension Expense	\$	601,973	\$	641,674	\$	39,702	
5	Less: Amounts Chargeable to Construction		(189,682)		(202,192)		(12,510)	
6	Total Unitil Service Pension Expense Allocated to NU-NH, net	\$	412,291	\$	439,483	\$	27,192	
7	Total NU-NH Pension Expense	\$	692,409	\$	690,223	\$	(2,185)	

#### Workpaper 4.2 Table of Contents

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE PBOP EXPENSE 2020 ACTUAL EXPENSE RECORDED AND 2021 FORECAST EXPENSE

	(1)	(2)			(3)	(4)		
LINE NO.	DESCRIPTION	<u></u>	2020 EST YEAR		2021 ORECAST EXPENSE	PROFORMA ADJUSTMENT		
A1 A2 A3 A4	USC Labor & Overhead Charged to NU-NH NU-NH Capitalization Rates USC Labor & Overhead to Construction Total USC PBOP Expense		19.85% 48.76% 31.51% 1,510,206	\$	19.85% 48.76% 31.51% 1,358,914			
	Calculation of PBOP Expense, net of Amounts Chargeable to Construction							
	A. NU-NH PBOP Expense, net:							
1	NU-NH PBOP Expense	\$	397,889	\$	399,488	\$	1,599	
2	Less: Amounts Chargeable to Construction		(194,011)		(194,790)		(780)	
3	NU-NH PBOP Expense, net	\$	203,878	\$	204,698	\$	819	
	B. Unitil Service PBOP Expense Allocated to NU-NH, net:							
4	Unitil Service PBOP Expense	\$	299,776	\$	269,744	\$	(30,031)	
5	Less: Amounts Chargeable to Construction		(94,459)		(84,996)		9,463	
6	Total Unitil Service PBOP Expense Allocated to NU-NH, net	\$	205,317	\$	184,748	\$	(20,569)	
7	Total NU-NH PBOP Expense	\$	409,195	\$	389,446	\$	(19,749)	

#### Workpaper 4.3 Table of Contents

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE SERP EXPENSE 2020 ACTUAL EXPENSE RECORDED AND 2021 FORECAST EXPENSE

	(1)		(2)		(3)	(4)	
LINE NO.	DESCRIPTION	T	2020 EST YEAR		2021 ORECAST EXPENSE	PROFORMA ADJUSTMENT	
A1 A2 A3 A4	USC Labor & Overhead Charged to NU-NH NU-NH Capitalization Rates USC Labor & Overhead to Construction Total USC SERP Expense	\$	19.85% 48.76% 31.51% 1,924,767	19.85% 48.76% 31.51% \$ 2,357,253			
	Calculation of SERP Expense, net of Amounts Chargeable to Construction						
	A. NU-NH SERP Expense, net:						
1	NU-NH SERP Expense	\$	-	\$	-	\$	-
2	Less: Amounts Chargeable to Construction		-		-		-
3	NU-NH SERP Expense, net	\$		\$		\$	<u>-</u>
	B. Unitil Service SERP Expense Allocated to NU-NH, net:						
4	Unitil Service SERP Expense	\$	382,066	\$	467,915	\$	85,848
5	Less: Amounts Chargeable to Construction		(120,389)		(147,440)		(27,051)
6	Total Unitil Service SERP Expense Allocated to NU-NH, net	\$	261,677	\$	320,475	\$	58,798
7	Total NU-NH SERP Expense	\$	261,677	\$	320,475	\$	58,798

# NORTHERN UTILITIES, INC. - NEW HAMPSHIRE 401(K) EXPENSE 2020 ACTUAL EXPENSE RECORDED AND 2021 FORECAST EXPENSE

Workpaper 4.4

<u>Table of Contents</u>

	(1)	(2)			(3)	(4)		
LINE NO.	DESCRIPTION	<u>T</u> [	2020 EST YEAR	F	017 & 2018 ORECAST EXPENSE	PROFORMA ADJUSTMENT		
<b>A</b> 1	USC Labor & Overhead Charged to NU-NH		19.85%		19.85%			
<b>A2</b>	NU-NH Capitalization Rates		48.76%		48.76%			
<b>A3</b>	USC Labor & Overhead to Construction		31.51%		31.51%			
A4	Total USC 401k Expense (1)	\$	1,994,120	\$	2,081,861			
	Calculation of 401k Expense, net of amounts chargeable to construction							
	A. Northern 401k Expense, net:							
1	Northern-401k Expense 2021 Proformed (2)	\$	181,223	\$	186,714	\$	5,491	
2	NU-NH 401(k) Expense Adjusted for 2022 Wage Increase <sup>(2)</sup>				5,657		5,657	
3	Total NU-NH 401(k) Expense - Proformed		181,223		192,371		11,148	
4	Less: Amounts Chargeable to Construction		(88,364)		(93,800)		(5,436)	
5	Northern 401k Expense, net	\$	92,859	\$	98,571	\$	5,712	
	B. Unitil Service 401k Expense Allocated to Northern, net:							
6	Unitil Service 401K Expense 2021 Proformed	\$	395,833	\$	413,250	\$	17,417	
7	Unitil Service 401K Adjusted for 2022 Wage Increase (1)				18,183		18,183	
8	Total USC 401(k) Expense - Proformed		395,833		431,432		35,600	
9	Less: Amounts Chargeable to Construction		(124,727)		(135,944)		(11,217)	
10	Unitil Service 401k Expense Allocated to Northern, net		271,106		295,488		24,382	
11	Total Northern 401k Expense	\$	363,965	\$	394,059	\$	30,095	

#### **Notes**

<sup>(1)</sup> Unitil Service Corp. - Average 2020/2021 Payroll Increase of 4.40%

<sup>(2)</sup> See Workpaper 3.5

#### 401K ADJUSTMENT 2020 & 2021 WEIGHTED AVERAGE PAY INCREASE

(1)		(2)		(3)	(4)	(5)	(6)		
LINE NO.	DESCRIPTION	2020 ANNUALIZED PAYROLL		ANNUALIZED		2021 AVERAGE PAY INCREASE <sup>(1)</sup>	WEIGHTED AVERAGE INCREASE	2022 AVERAGE PAY INCREASE <sup>(2)</sup>	WEIGHTED AVERAGE INCREASE
1	Nonunion	\$	946,912	3.12%	0.66%	3.12%	0.66%		
2	Union		3,532,915	3.00%	2.37%	3.00%	2.37%		
3	Total	\$	4,479,827		3.03%		3.03%		

#### <u>Notes</u>

<sup>(1)</sup> Refer to Schedule RevReq-3-4, Page 1 of 2 for 2021 Payroll Increases

<sup>(2)</sup> Refer to Schedule RevReq-3-4, Page 1 of 2 for 2022 Payroll Increase

### DEFERRED COMPENSATION PLAN EXPENSE 2020 ACTUAL EXPENSE RECORDED AND 2021 & 2022 FORECAST EXPENSE

	(1)	(2) 2020			(3) 021 & 2022 ORECAST	PR	(4) OFORMA
Line No.	Description	TE	ST YEAR		EXPENSE		USTMENT
A1 A2 A3	USC Labor & Overhead Charged to NU-NH NU-NH Capitalization Rates USC Labor & Overhead to Construction		19.85% 48.76% 31.51%		19.85% 48.76% 31.51%		
<b>A4</b>	Total USC Eligible Base Compensation	\$	369,511	\$	2,802,136		
<b>A5</b>	Total USC Eligible Incentive Compensation (at target)	\$	241,091	\$	952,203		
	Calculation of Deferred Compensation Expense, net of Amounts Chargeable to Construction						
	A. NU-NH Deferred Compensation Expense, net:						
1	NU-NH Deferred Comp Expense 2021 Proformed	\$	-	\$	-	\$	-
2	NU-NH Deferred Comp Expense adjusted for 2022 wage increase						
3	Total NU-NH Deferred Comp Expense - Proformed						<u>-</u> _
4	Less: Amounts chargeable to capital		-		-		-
5	Total NU-NH Deferred Comp Expense, net	\$		\$		\$	_
	B. Unitil Service Deferred Comp Expense allocated to NU-NH, net:						
6	Unitil Service 2020 Deferred Comp. Expense	\$	36,951	\$	280,214	\$	243,263
7	Unitil Service Deferred Comp Expense Allocated to NU-NH		7,335		55,622		48,287
8	Unitil Service Deferred Incentive Compensation Expense		24,109		95,220		71,111
9	Unitil Service Deferred Incentive Compensation Expense Allocated to NU-NH		4,786		18,901		14,115
10	Unitil Service Deferred Comp. Adjusted for 2021 Wage Increase (1)				2,447		2,447
11	Total Unitil Service Deferred Comp Expense Allocated to NU-NH - Proformed		12,121		76,970		64,849
12	Less: Amounts Chargeable to Construction		(3,819)		(24,253)		(20,434)
13	Unitil Service Deferred Comp Expense Allocated to NU-NH, net	\$	8,302	\$	52,717	\$	44,415
14	Total NU-NH Deferred Comp Expense	\$	8,302	\$	52,717	\$	44,415

#### Notes

<sup>(1)</sup> Unitil Service Corp - Estimated 2020 Average Payroll Increase of 4.40%

### PROPERTY AND LIABILITY INSURANCES ADJUSTMENT 12 MONTHS ENDED DECEMBER 31, 2020

NO.	DESCRIPTION	AMOUNT (1)
	Current Coverage Periods	
	Property:	
1	All Risk	\$ 18,989
2	Crime	3,256
3	K&E	285
4	Total Property	\$ 22,531
	Liability:	
5	Workers' Compensation	\$ 53,618
6	Excess	355,650
7	Cyber	17,698
8	Automobile	43,038
9	Directors & Officers	74,021
10	Fiduciary	5,044
11	Total Liability	\$ 549,069
12	Total NuNH Property & Liability Insurances	571,600
13	Less: Amounts Chargeable to Capital	282,502
14	Amount to O&M Expense	289,097
15	Less Test Year O&M Expense	241,873
16	O&M Property and Liability Insurance Increase	\$ 47,224

<u>Notes</u>

(1) Refer to Workpaper 5.3

#### NORTHERN UTILITIES, INC. - NEW HAMPSHIRE PROPERTY AND LIABILITY INSURANCES ADJUSTMENT 12 MONTHS ENDED DECEMBER 31, 2020

LINE NO.	DESCRIPTION	SER	UNITIL VICE CORP. OTAL <sup>(1)</sup>	AMOUNT TO NuNH <sup>(2)</sup>	NuNH TOTAL		
1	USC Cost For Current Coverage Periods						
2	Property:						
3	All Risk	\$	6,952		\$	1,403	
4	Crime		968			195	
5	K&E		124			25	
6	Total Property	\$	8,044	20.18%	\$	1,623	
7	Liability:						
8	Workers' Compensation	\$	62,142		\$	12,540	
9	Excess		113,172			22,838	
10	Automobile		8,799			1,776	
11	Directors and Officers		23,554			4,753	
12	Cyber		5,898			1,190	
13	Fiduciary		1,605			324	
14	Total Liability	\$	215,170	20.18%	\$	43,421	
15	Total USC Property & Liability Insurances					45,045	
16	Less Amount Chargeable to Capital			31.51%		14,194	
17	Total Property & Liability Insurances to O&M Expense					30,851	
18	Less Test Year O&M Expense <sup>(3)</sup>					17,377	
19	O&M Property and Liability Insurance Increase				\$	13,475	

#### <u>Notes</u>

- (1) Refer to Workpaper 5.3
- (2) Refer to Workpaper 5.1
- (2) Refer to Workpaper 5.4

														Tab	ie of Conter	<u> 118</u>			
							CASU	JALTY						PROPERTY					
		AL	NH-WC	XL*	XL	XL	Cyber	FL	D&O	D&O	D&O	D&O	CASUALTY	ARP	CRIME	K&E	TOTAL		'n
		(prem)	(prem)	(prem)	(brkr) <sup>(2)</sup>	Surplus Tax	(prem)	(prem)	(prem)	Surplus Tax	(brkr) <sup>(2)</sup>	Side A	TOTAL	(prem)	(prem)	(prem)	PROP	TOTAL	'n
NuNH	2018a	26,696	90,284	239,335	7,351	7,180	8,376	3,481	34,907	1,047	4,420	-	423,077	10,171	1,468	255	11,894	434,971	
	2019a	29,196	84,634	273,415	8,843	8,202	8,399	3,876	35,820	1,093	4,544	-	458,024	8,778	1,503	266	10,547	468,571	
	2020a	33,155	66,093	285,336	13,321	8,560	10,467	3,876	42,690	1,281	-	-	464,779	12,588	1,520	266	14,373	479,152	
	2021a	40,175	50,051	309,521	13,184	9,286	17,698	4,709	51,976	1,559	-	15,561	513,720	17,726	3,039	266	21,032	534,752	
	2022e <sup>(1)</sup>	43,038	53,618	331,579	14,124	9,947		5,044	55,680	1,670	-	16,670	549,069	18,989	3,256	285	22,531	571,600	
	2018a	5,933	97,653	123,302	3,787	3,699	3,948	1,794	17,983	540	2,277	-	260,917	5,399	756	116	6,270	267,187	
	2019a	8,029	92,581	133,432	4,316	4,003	4,327	1,892	17,481	533	2,218	-	268,811	5,581	733	130	6,444	275,255	
USC	2020a	7,120	85,858	95,093	4,439	2,853	3,488	1,892	14,227	427	-	-	215,397	6,489	506	130	7,125	222,522	
	2021a	9,206	65,019	110,396	4,702	3,312	5,898	1,679	18,538	556	-	5,550	224,857	7,274	1,013	130	8,416	233,273	
	2022e <sup>(1)</sup>	8,799	62,142	105,512	4,494	3,165		1,605	17,718	532	-	5,305	215,170	6,952	968	124	8,044	223,214	

#### <u>Notes</u>

<sup>(1)</sup> Estimated 2022 premiums reflect annual growth rate from 2018 to 2021. All 2022 policies, except for Cyber will updated with actuals during pendency of case

<sup>(2)</sup> In 2020 the Company changed brokers and now the D&O broker fee is included in the XL broker fee

## UNITIL SERVICE CORP. PROPERTY & LIABILITY INSURANCE TEST YEAR COSTS 12 MONTHS ENDED DECEMBER 31, 2020

#### Workpaper 5.4 Table of Contents

NO.	DESCRIPTION	 TOTAL			
	USC O&M Test Year				
1	12-30-08-00-9240100 PROPERTY INSURANCE	\$ 5,519			
2	12-30-08-00-9250100 INJURIES & DAMAGES	120,204			
3	Total	\$ 125,723			
4	NuNH Apportionment	 20.18%			
5	NuNH Amount	\$ 25,371			
6	Capitalization Rate	 31.51%			
7	Capitalization Amount	\$ 7,994			
8	O&M Expense Amount	 17,377			

			<b>ALLOCATION OF</b>
SQUARE FOOTAGE OF SERVICE CENTER L	JPDATED:	Dec-20	SERVICE CENTER
DESCRIPTION	SQ FT	%	<b>OVERHEADS</b>
SERVICE CENTER ALLOCATED:			
General Area Capitalized (184.00.00)	13,864	54.51%	6,384
Ratio of Payroll Capitalized			48.76%
General Area Capitalized (184.00.01)			3,113
Stock Area Capitalized (163.00.00)	5,741	22.57%	2,643
Ratio of Stock Capitalized			90.00%
Stock Area Capitalized			2,379
Garage Area Capitalized:			
Auto-184.01.00	-	0.00%	-
Light Truck-184.02.00	-	0.00%	-
Heavy Truck-184.03.00		0.00%	<del>_</del> _
Sub-Total Garage Area	-	0.00%	-
Ratio of Garage Area Capitalized			48.76%
Garage Area Capitalized			-
Total Service Center to DOC	19,605	77.09%	5,492
Non-DOC Space:			
Exclude: USC & Usource	5,827	22.91%	2,683
Ratio of Non-DOC Space Capitalized			0.00%
Non-DOC Space Capitalized			-
TOTAL SERVICE CENTER	25,432	100.00%	5,492
(b) DETERMINATION OF SERVICE CENTER	PROPERTY II	NSURANCE:	
BUDGETED ALL RISK PROPERTY INSURAN		NOOKANOL.	11,723
RATIO OF SERVICE CENTER TO TOTAL PR	_		99.89%
TOTAL SERVICE CENTER PROPERTY INSU	_		11,710
Service Center Property Insurance Capitaliz	ation Ratio		46.90%

	Asset 1000c or Asset 1020					
	SERVICE	ALL	SERVICE			
	CENTER	STRUCTURE	RATIO			
GAS STRUCTURES - DIST. ACCT. 375.20	39,504	45,256				
STRUCTURES-OTHER DIST SYS 375.70	3,128,853	3,128,853				
GENERAL PLANT - (TOTAL LESS COMMUN. EQ)	1,923,719	1,923,719				
(ACCT. 391,393,394,395,396,398)	-	-				
TOTAL COST	5,092,075	5,097,827	99.89%			

## VEHICLE CLEARING ACCOUNT TOTAL CHARGES & TOTAL CLEARINGS TO EXPENSE & CAPITAL 12 MONTHS ENDED DECEMBER 31, 2020

**Total Clearings from Clearing Account:** 

			NuNH		
	Expense	Capital	Total GL	Total Sch 12	Variance
Jan-20	28,022	47,758	75,780	75,780	-
Feb-20	29,141	31,696	60,837	60,837	-
Mar-20	29,755	29,979	59,735	59,735	-
Apr-20	26,484	25,236	51,719	51,719	-
May-20	30,248	31,224	61,473	61,473	-
Jun-20	36,093	51,333	87,427	87,427	-
Jul-20	23,989	40,521	64,510	64,510	-
Aug-20	20,998	29,112	50,111	50,111	-
Sep-20	25,188	32,644	57,832	57,832	-
Oct-20	83,045	146,259	229,304	229,304	-
Nov-20	1,576	4,394	5,970	5,970	-
Dec-20	1,505	4,908	6,413	6,413	-
	336,045	475,064	811,109	811,109	
Capitalization Rate		58.57%			

### VEHICLE CLEARING ACCOUNT AUTO LIABILITY INSURANCE

Auto Liability Insurance Payments into Clearing Account	nt <sup>(1)</sup>
Jan-20	3,316
Feb-20	3,316
Mar-20	3,316
Apr-20	3,316
May-20	3,316
Jun-20	3,316
Jul-20	3,316
Aug-20	
Sep-20	
Oct-20	
Nov-20	8,035
Dec-20	4,018
Total	35,261

(1) Payments during test year (Jan-Jul) were for 2019-2020 coverage year 10/1/19-9/30/20 Payments in November & December 2020 are for 10/1/20 - 9/30/21 coverage year

#### **Auto Liability Insurance Expense through Clearing Account**

	<u>NuNH</u>					
<b>Gross Amount</b>	35,261					
Cap. Rates	58.57%					
Cap. Amount	20,652					
O&M Amount	14,609					

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

Source: Energy Information Administration Short-Term Energy Outlook

Publication Date: June 8, 2021	Table 1. U.	S. Energy	Markets Su	mmary																				
	lan	Fals	Man	A	Marr	201		A	Com	0.4	Nove	Doo	la	Fab	Mar	A	Mari	202		A	Com	0-4	Mass	Doo
Macroeconomic  Real Gross Domestic Product (billion chained 2009 dollars - SAAR)  Percent change from prior year	Jan 18,915 2.3	18,953 2.3	Mar 18,984 2.2	Apr 18,990 2	May 19,019 1.9	Jun 19,053 1.9	Jul 19,103 2	Aug 19,142 2.1	Sep 19,180 2.1	Oct 19,269 2.6	Nov 19,267 2.4	19,226 2	Jan 19,309 2.1	19,065 0.6	Mar 18,658 -1.7	Apr 17,427 -8.2	May 17,191 -9.6	Jun 17,289 -9.3	Jul 18,328 -4.1	Aug 18,637 -2.6	Sep 18,825 -1.9	Oct 18,714 -2.9	Nov 18,791 -2.5	Dec 18,878 -1.8
GDP Implicit Price Deflator (Index, 2005=100) Percent change from prior year	111.3 2.1	111.5 2.0	111.7 1.9	112.0 1.9	112.2 1.8	112.4 1.8	112.5 1.8	112.6 1.7	112.7 1.7	112.9 1.7	113.0 1.6	113.1 1.6	113.4 1.8	113.4 1.7	113.3 1.5	112.8 0.7	112.8 0.5	113.0 0.5	113.6 1.0	113.9 1.1	114.1 1.2	114.1 1.1	114.4 1.2	114.7 1.4
Real Disposable Personal Income (billion chained 2005 dollars - SAAR) Percent change from prior year	14,841 3.5	14,864 3.4	14,856 2.9	14,817 2.4	14,810 2.0	14,827 1.9	14,840 1.6	14,912 1.8	14,934 2.0	14,936 1.8	14,997 2.1	14,960 0.8	15,070 1.5	15,163 2.0	14,949 0.6	17,287 16.7	16,454 11.1	16,150 8.9	16,204 9.2	15,636 4.9	15,715 5.2	15,574 4.3	15,349 2.3	15,378 2.8
Manufacturing Production Index (Index, 2012=100) Percent change from prior year	106.9 2.7	106.3 1.1	106.3 1	105.4 -0.4	105.5 0.5	106.1 0.3	105.7 -0.5	106.4 -0.3	105.7 -1	105.1 -1.5	106.1 -0.7	106.4 -1.1	106.2 -0.7	106.1 -0.2	100.8 -5.2	84.8 -19.5	88.1 -16.5	95.0 -10.5	99.0 -6.3	100.7 -5.4	100.6 -4.7	102.1 -2.8	103.1 -2.8	104.0 -2.2
Weather U.S. Heating Degree-Days U.S. Cooling Degree-Days	859 9	719 18	632 18	288 42	158 130	34 227	5 373	10 336	41 243	254 75	589 16	715 14	739 15	652 13	483 43	359 43	156 105	25 247	5 398	7 357	58 181	247 83	421 32	749 7
						202	21					T						202	22					
																								_
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Macroeconomic  Real Gross Domestic Product (billion chained 2009 dollars - SAAR)  Percent change from prior year	Jan 18,976 -1.7	19,084 0.1	Mar 19,203 2.9	Apr 19,375 11.2	May 19,505 13.5	Jun 19,629 13.5	Jul 19,728 7.6	19,848 6.5	<b>Sep</b> 19,971 6.1	Oct 20,128 7.6	Nov 20,237 7.7	20,329 7.7	20,389 7.4	20,454 7.2	Mar 20,512 6.8	20,560 6.1	20,603 5.6	<b>Jun</b> 20,639 5.1	Jul 20,660 4.7	20,689 4.2	<b>Sep</b> 20,718 3.7	Oct 20,744 3.1	20,773 2.6	20,803 2.3
Real Gross Domestic Product (billion chained 2009 dollars - SAAR)	18,976	19,084	19,203 2.9 116.0	19,375	19,505	19,629	19,728	19,848	19,971	20,128	20,237	20,329	20,389	20,454	20,512	20,560	20,603	20,639	20,660	20,689	20,718	20,744	20,773	20,803
Real Gross Domestic Product (billion chained 2009 dollars - SAAR) Percent change from prior year  GDP Implicit Price Deflator (Index, 2005=100)	18,976 -1.7 115.1	19,084 0.1 115.5	19,203 2.9 116.0	19,375 11.2	19,505 13.5 116.5	19,629 13.5 116.7	19,728 7.6 116.9	19,848 6.5 117.0	19,971 6.1 117.2	20,128 7.6 117.4	20,237 7.7 117.5	20,329 7.7 117.7	20,389 7.4 117.8	20,454 7.2 118.0	20,512 6.8 118.2	20,560 6.1 118.4	20,603 5.6 118.6	20,639 5.1 118.8	20,660 4.7 119.0	20,689 4.2 119.2	20,718 3.7 119.4	20,744 3.1 119.6	20,773 2.6	20,803 2.3 120.0
Real Gross Domestic Product (billion chained 2009 dollars - SAAR) Percent change from prior year  GDP Implicit Price Deflator (Index, 2005=100) Percent change from prior year  Real Disposable Personal Income (billion chained 2005 dollars - SAAR)	18,976 -1.7 115.1 1.5 17,114	19,084 0.1 115.5 1.9	19,203 2.9 116.0 2.4 19,336	19,375 11.2 116.2 3	19,505 13.5 116.5 3.3	19,629 13.5 116.7 3.3 15,908	19,728 7.6 116.9 2.9	19,848 6.5 117.0 2.8 15,895	19,971 6.1 117.2 2.7 15,829	20,128 7.6 117.4 2.8	20,237 7.7 117.5 2.7 15,706	20,329 7.7 117.7 2.6 15,724	20,389 7.4 117.8 2.4 15,843	20,454 7.2 118.0 2.1 15,894	20,512 6.8 118.2 1.8 15,939	20,560 6.1 118.4 1.9	20,603 5.6 118.6 1.8 16,006	20,639 5.1 118.8 1.8 16,038	20,660 4.7 119.0 1.8 16,070	20,689 4.2 119.2 1.8 16,096	20,718 3.7 119.4 1.9	20,744 3.1 119.6 1.9 16,121	20,773 2.6 119.8 2 16,143	20,803 2.3 120.0 2 16,170

Notes: Prices are not adjusted for inflation.

The approximate break between historical and forecast values is shown with estimates and forecasts in italics.

Historical data: Latest data available from Energy Information Administration databases supporting the following reports: Petroleum Supply Monthly, DOE/EIA-0109;

Petroleum Supply Annual , DOE/EIA-0340/2; Weekly Petroleum Status Report , DOE/EIA-0208; Petroleum Marketing Monthly , DOE/EIA-0380; Natural Gas Monthly , DOE/EIA-0130;

Electric Power Monthly, DOE/EIA-0226; Quarterly Coal Report, DOE/EIA-0121; and International Petroleum Monthly, DOE/EIA-0520.

Minor discrepancies with published historical data are due to independent rounding. **Projections:** EIA Regional Short-Term Energy Model, Macroeconomic projections a

Projections: EIA Regional Short-Term Energy Model. Macroeconomic projections are based on Global Insight Model of the U.S. Economy.

Weather projections from National Oceanic and Atmospheric Administration.

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE INFLATION ADJUSTMENT - TEST YEAR USC AMORTIZATIONS 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 6.2 Table of Contents

	(1)	(2)
NO.	DESCRIPTION	 2020
1	12-30-10-00-404-03-00 SOFTWARE AMORT - OTHER	\$ 343,313
2	12-30-10-00-404-04-00 FINANCIAL REPORT WRITER AMORTIZATION	7,350
3	12-30-10-00-404-23-00 POWER TAX SYSTEM AMORT	30,284
4	12-30-10-00-404-25-00 AMORTIZATION - PAYMENT SYSTEM	 1,492
5	Total	\$ 382,438
6	NuNH Allocation	 19.85%
7	Amount Billed to NuNH	75,914

## NORTHERN UTILITIES, INC. - NEW HAMPSHIRE INFLATION ADJUSTMENT - TEST YEAR FACILITY LEASES 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 6.3 Table of Contents

	(1)	(2)
NO.	DESCRIPTION	 2020
1	12-30-10-00-9310100 BUILDING RENT	\$ 1,252,284
2	12-30-10-00-9310700 CALL CENTER RENT	158,796
3	12-30-10-00-9310800 PORTSMOUTH RENT EXPENSE	203,988
4	Total	\$ 1,615,068
5	NuNH Allocation	 19.85%
6	Amount Billed to NuNH	 320,591

	(1)	(2)		(3)	(4)
LINE		BEGINNIN		2020	ENDING
LINE NO.	DESCRIPTION	UNAMORTI BALANCE 2		AMORTIZATION EXPENSE	UNAMORTIZED BALANCE 2020
1	Northern Utilities 303-Intangible Plant:				<del>-</del>
2	Power Plant	\$	36,832	•	
3 4	Power Plan Upgrade Meter Data Management	1	15,843 ,093,248	4,045 138,095	11,798 955,154
5	2019 Voice System Repl		239,694	23,321	214,318
6	2019 Interface Enhancements		13,177	1,355	11,706
7	Customer Facing Enhancements		232,484	23,543	207,039
8 9	CIS Billing Integration 2014 Infrastructure		202,420 586	69,401 586	133,018 -
10	2014 Desktop Client Mgmt		76	76	-
11 12	2014 Enhance Critical Financial 2014 CMS Rewrite		769	769	-
12 13	Gen Software enhancements		1,113 160	1,113 160	-
14	2014 EETS Enhancements		58	58	-
15 16	Gas Construction Estimating Model		4,875	4,875	-
16 17	Electronic Large Vol. Meter Form 2014 AMI/SCADA Cyber Project		1,868 3,235	1,868 3,235	-
18	AMI Vers Updt PLX Functionality		1,837	1,837	-
19	Milsoft IVR Upgrade		186	186	-
20 21	2015 Infrastructure SalesForce App for Gas Sales		6,105 12,609	4,884 7,964	1,221 4,645
22	First Responder - iRestore		26,280	13,140	13,140
23	General Software Enhancements		2,792	1,289	1,503
24 25	2016 IT Infrastructure Gas Inspections		15,367 5,264	6,830 2,339	8,537 2,924
26	CMS 2015 Rewrite		7,397	3,288	4,110
27	2015 Cyber Security Enhancements		99	44	55
28 20	2016 Cyber Security Enhancements		144	64 1 709	80
29 30	Unify Workforce Management System 2016 General Software Enhancements		4,046 2,274	1,798 1,011	2,248 1,264
31	Verotrack Upgrade to myWorld		8,985	3,267	5,718
32	Itron MVRS Upgrade		1,262	459	803
33 34	New Century Dist Risk Alg. Upgrade EETS Enhancements		5,340 11,139	1,942 3,819	3,398 7,320
35	CMS NH/ME Isolation		1,410	484	927
36	Power Plant Upgrade 2016.1		37,818	12,966	24,852
37 39	LocusView GPS/GIS Track & Trace		75,602 4,204	23,262	52,340
38 39	2017 Cyber Security Enhancements 2017 IT Infrastructure		1,291 5,831	387 1,749	903 4,081
40	SalesForce for Gas Sales Phase II		31,670	9,269	22,401
41	Electronic Time Sheet - Phase One		3,504	978	2,526
42 43	2017 General Software Enhancements UPC/GEM Enhancements		6,778 11,339	1,891 3,164	4,886 8,175
44	Upgrade to MyWorld Insepction		9,754	2,601	7,153
45	Meter Data Archiving Plan		1,566	408	1,157
46 47	Sales Force Application		12,770	3,331	9,438
47 48	OMS Web Page Upgrade Power Plan License Update		3,103 45,014	760 11,024	2,343 33,990
49	GIS Version Upgrade		44,529	10,477	34,052
50	IS Project Tracker Replacement		4,233	996	3,237
51 52	Comp Mgmt Sys Enhncmnts Legacy Interface Job Rewrite		27,228 2,337	6,407 550	20,821 1,787
53	Gen. Software Enhancements 2018		11,362	2,673	8,689
54	TESS Replacement		3,716	874	2,842
55 56	Salesforce App for Gas Sales UPS Reporting		13,714 558	3,227 131	10,487 427
57	2018 IT Infrastructure		24,422	5,529	18,892
58	WebOps Replacement - Year 1 of 3		11,750	2,564	9,186
59 60	2018 Cyber Security Enhancements		3,787	826	2,961
60 61	DEV Staging Refresh Microsoft Exchange Upgrade		5,309 2,425	1,098 502	4,211 1,923
62	Electronic Timesheet - Phase 2		13,540	2,801	10,738
63	CMS Data Reports		1,616	334	1,282
64 65	ODI Plant Records - GIS Recon Metersense Upgrade 4.2 to 4.3		2,323 267	481 55	1,843 212
66	FCS Upgrade		770	155	615
67	FCS Upgrade		451	75	376
68 69	FCS Upgrade MARS/GEM Enhancements		9,038 25,798	847 2,150	8,191 23,648
70	General Software Enchancements 2019		11,825	2,130	9,476
71	WebOps Replacement		13,547	2,408	10,948
72 72	2019 Reporting Blanket		22,028	1,836	20,193
73 74	Infrastructure PC & Network 2019 2019 Regulatory Work Blanket		196,345 5,608	39,585 467	154,000 5,140
75	LocusView Mobile Data Collections		10,880	907	9,973
<b>76</b>	Compliancy Mgmt Sys Enhancements		17,992	3,246	14,625
77 78	GIS Enhancements Gas SCADA-Historical Database		3,998 5,219	333 435	3,665 4,784
76 79	Metersense Upgrade 2020		6,725	112	6,613
80	Power Plan Upgrade		68,580	1,143	67,437
81 82	Cyber Security Enhancements		21,917	365 5 020	21,552
82 83	2020 IT Infrastructure Budget 2020 Customer Facing Enhancements		301,181 138,605	5,020 2,310	296,162 136,295
84	2020 Interface Enhancements		29,156	486	28,670
85	2020 General Software Enhancements		829	14	815
86 87	Reporting Blanket Pipeline Compliance Syst. Integ.		26,585 71,157	443 1,186	26,142 69,971
88	EE Tracking & Reporting System		36,085	601	35,483
89	MV-90xi Upgrade v 4.5 to 6.0		9,579	160	9,419
90 91	MV-90 Comm Bank Module		3,327 15 123	577 252	2,715 14,871
91 92	Salesforce Gas Sales Reporting LocusView Paperless Work Flows		15,123 26,180	252 436	14,871 25,744
93	Total NuNH Amortization Expense for Account 303	\$ 3,	,456,660		\$ 2,927,332

NOTES

(1) Projects Installed in 2020 Reflect Total Project Cost

### NORTHERN UTILITIES, INC. - NEW HAMPSHIRE RATE YEAR AMORTIZATION EXPENSE

Workpaper 7.2 Table of Contents

(1) (2) (3)

LINE NO.	DESCRIPTION	TOTAL PROJECT COST	ANNUAL AMORTIZATION EXPENSE
1	Northern Utilities 303-Intangible Plant:		
2	Power Plant	\$ 157,853	•
3	Power Plan Upgrade	40,449	4,045 138,005
4 5	Meter Data Management 2019 Voice System Repl	1,380,945 239,694	138,095 24,036
6	2019 Interface Enhancements	13,177	1,313
7	Customer Facing Enhancements	232,484	23,219
8 9	CIS Billing Integration 2015 Infrastructure	902,212 24,419	69,401 4,884
10	SalesForce App for Gas Sales	39,818	7,964
11	First Responder - iRestore	65,700	13,140
12 13	General Software Enhancements 2016 IT Infrastructure	6,443 34,149	1,289 6,830
14	Gas Inspections	11,697	2,340
15	CMS 2015 Rewrite	16,438	3,288
16 17	2015 Cyber Security Enhancements	220 321	44 64
18	2016 Cyber Security Enhancements Unify Workforce Management System	8,991	1,798
19	2016 General Software Enhancements	5,054	1,011
20	Verotrack Upgrade to myWorld	16,336	3,267
21 22	Itron MVRS Upgrade New Century Dist Risk Alg. Upgrade	2,295 9,709	459 1,942
23	EETS Enhancements	19,095	3,819
24	CMS NH/ME Isolation	2,418	484
25 26	Power Plant Upgrade 2016.1 LocusView GPS/GIS Track & Trace	64,831 116,310	12,966 23,262
27	2017 Cyber Security Enhancements	1,936	387
28	2017 IT Infrastructure	8,746	1,749
29 30	SalesForce for Gas Sales Phase II Electronic Time Sheet - Phase One	46,347 4,890	9,269 978
30 31	2017 General Software Enhancements	4,890 9,457	1,891
32	UPC/GEM Enhancements	15,822	3,164
33	Upgrade to MyWorld Insepction	13,005	2,601
34 35	Meter Data Archiving Plan Sales Force Application	2,042 16,656	408 3,331
36	OMS Web Page Upgrade	3,800	760
37	Power Plan License Update	55,120	11,024
38 39	GIS Version Upgrade IS Project Tracker Replacement	52,387 4,980	10,477 996
40	Comp Mgmt Sys Enhncmnts	31,938	6,407
41	Legacy Interface Job Rewrite	2,749	550
42 43	Gen. Software Enhancements 2018	13,313 4,372	2,673 874
43 44	TESS Replacement Salesforce App for Gas Sales	16,134	3,227
45	UPS Reporting	657	131
46 47	2018 IT Infrastructure	27,627	5,529
47 48	WebOps Replacement - Year 1 of 3 2018 Cyber Security Enhancements	12,818 4,131	2,564 826
49	DEV Staging Refresh	5,492	1,098
50	Microsoft Exchange Upgrade	2,508	502
51 52	Electronic Timesheet - Phase 2 CMS Data Reports	14,006 1,672	2,801 334
53	ODI Plant Records - GIS Recon	2,403	481
54	Metersense Upgrade 4.2 to 4.3	277	. <del> </del>
55 56	FCS Upgrade FCS Upgrade	779 451	157 90
57	FCS Upgrade	9,038	1,927
58	MARS/GEM Enhancements	25,798	5,160
59 60	General Software Enchancements 2019	11,825	2,230
60 61	WebOps Replacement 2019 Reporting Blanket	13,547 22,028	2,479 4,406
62	Infrastructure PC & Network 2019	196,345	39,319
63	2019 Regulatory Work Blanket	5,608	1,122
64 65	LocusView Mobile Data Collections Compliancy Mgmt Sys Enhancements	10,880 17,992	2,176 3,510
66	GIS Enhancements	3,998	800
67	Gas SCADA-Historical Database	5,219	1,044
68 69	Metersense Upgrade 2020 Power Plan Upgrade	6,725 68,580	1,345 14,205
70	Cyber Security Enhancements	21,917	4,383
71	2020 IT Infrastructure Budget	301,181	63,804
72 72	2020 Customer Facing Enhancements	138,605	28,287
73 74	2020 Interface Enhancements 2020 General Software Enhancements	29,156 829	5,831 166
75	Reporting Blanket	26,585	5,317
<b>76</b>	Pipeline Compliance Syst. Integ.	71,157	14,231
77 78	EE Tracking & Reporting System  MV-90xi Upgrade v 4.5 to 6.0	36,085 9,579	7,217 1 916
78 79	MV-90 Comm Bank Module	9,579 3,327	1,916 639
80	Salesforce Gas Sales Reporting	15,123	3,024
81	LocusView Paperless Work Flows	26,180	5,236
82 83	FCS Upgrade 2020 IT Infrastructure Budget	1,041 19,607	174 3,268
84	2020 Customer Facing Enhancements	25,018	4,170
85	2020 Interface Enhancements	1,800	300
86 87	2020 General Software Enhancements Reporting Blanket	874 7,763	146 1,294
88	Power Plan Upgrade	1,763	307
89	Total NuNH Amortization Expense for Account 303	\$ 4,922,826	

#### NORTHERN UTILITIES, INC. - NEW HAMPSHIRE TEST YEAR USC AMORTIZATION EXPENSE 12 MONTHS ENDED DECEMBER 31, 2020

Workpaper 7.3 Table of Contents

	(1)		(2)		(3)		(4)
LINE NO.	DESCRIPTION	UN	EGINNING AMORTIZED ANCE 2020 <sup>(1)</sup>	ΑN	2020 IORTIZATION EXPENSE		ENDING AMORTIZED LANCE 2020
	Financial Deport Writer Depleament	¢	7 250	¢	7.250	¢	
1	Financial Report Writer Replacement	\$	7,350	Þ	7,350	Þ	4 000
2	Flexi Upgrade		10,798		5,890		4,908
3	Dataview Upgrade		4,553		2,602		1,951
4	Powertax Repair Module		75,709		30,284		45,425
5	USC Time & Billing Enhancements		32,287		12,108		20,179
6	PC & Furniture 032018		310,955		143,517		167,437
7	Software - Facilities WO&PM Tracking/Reporting		17,052		4,991		12,061
8	PC & Furniture 082018		312,111		120,817		191,294
9	Upgrade C-Series Bottomline Check Printing		5,597		1,492		4,104
10	ADP Vacation Enhancements		2,635		687		1,948
11	General Infrastructure Enhancements		9,113		2,377		6,736
12	2018 Flexi upgrade		16,530		4,048		12,482
13	Flexi Report Writer		6,370		1,560		4,810
14	USC Furn & Equipment - Hamp&CSC		4,263		867		3,396
15	IT Control Testing Automation		320,088		21,339		298,749
16	HR & Payroll Record Scanning		26,917		1,794		25,122
17	USC 2019 Furniture & PC's		310,711		20,714		289,996
18	Total	\$	1,473,037	\$	382,438	\$	1,090,598
19	NuNH Apportionment				20.18%		
20	Total Billed to NuNH				77,176		

#### **NOTES**

(1) Projects Installed in 2020 Reflect Total Project Cost

### NORTHERN UTILITIES, INC. - NEW HAMPSHIRE RATE YEAR USC AMORTIZATION EXPENSE

Workpaper 7.4

<u>Table of Contents</u>

(1) (2) (3)

LINE NO.	DESCRIPTION	l	TOTAL PROJECT COST	AMO	NNUAL RTIZATION (PENSE
1	Powertax Repair Module		151,418		30,284
2	USC Time & Billing Enhancements		58,522		12,108
3	PC & Furniture 032018		574,070		143,517
4	Software - Facilities WO&PM Tracking/Reporting		24,953		4,991
5	PC & Furniture 082018		483,268		120,817
6	Upgrade C-Series Bottomline Check Printing		7,462		1,492
7	ADP Vacation Enhancements		3,437		115
8	General Infrastructure Enhancements		11,887		396
9	2018 Flexi upgrade		20,241		4,048
10	Flexi Report Writer		7,800		1,560
11	USC Furn & Equipment - Hamp&CSC		4,335		867
12	IT Control Testing Automation		320,088		64,018
13	HR & Payroll Record Scanning		26,917		5,383
14	USC 2019 Furniture & PC's		310,711		62,142
15	SOX Modernization		75,517		15,103
16	USC Time & Billing Upgrade/Replacement		587,704		117,541
17	2020 Flexi Upgrade		25,531		5,106
18	Total	\$	2,693,861	\$	589,489
19	NuNH Apportionment				20.18%
20	Total Billed to NuNH				118,959

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