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SECTION 4. REVENUE DECOUPLING MECHANISM

4.1 The Settling Parties agree that Unitil shall implement a Revenue Decoupling Mechanism ("RDM") substantially as proposed in the initial prefiled testimony of Unitil witness Timothy Lyons, subject to the adjustments specified in this Settlement Agreement. Specifically, the Settling Parties agree and recommend that the Commission approve a RDM using a Revenue Per Customer ("RPC") model that shall reconcile monthly actual and authorized RPC by rate class. Settlement Attachment 3 provides the Company's monthly target RPCs effective August 1, 2022 and also provides preliminary monthly target RPCs effective September 1, 2022 to reflect the 2022 Step Adjustment.

4.2 The Company shall implement the RDM as follows:

- 4.2.1 First, the Company shall record monthly variances between actual and authorized RPC for each rate class. Rather than record and reconcile the variances on an annual basis, the variances shall be recorded and reconciled separately, for the Peak (November through April) and Off-Peak (May through October) periods (the "Measurement Periods"). The monthly variances in the applicable Measurement Period shall then be totaled by class. The total variances by customer class group and carrying costs shall form the basis for the revenue decoupling adjustment ("RDA") by group and the calculation of revenue decoupling adjustment factors ("RDAF") (surcharges or credits). A Customer Class Group comprises the rate schedules combined for purposes of calculating the RDA amounts. The four Customer Class Groups shall be: (1) Residential Heating (R-5 and R-10); (2) Residential Non-Heating (R-6); (3) C&I High Load Factor (G-50, G-51, G-52); and (4) C&I Low Load Factor (G-40, G-41, G-42).
- 4.2.2 Second, the Company shall annually file with the Commission the applicable RDAF 45 days in advance of November 1. The filing will provide the proposed RDAF for the Peak period, for effect November 1, and subsequent Off-Peak period, for effect May 1. The RDA for the Peak period shall reflect actual data for the

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entire six month period while the RDA for the Off-Peak period shall reflect actual data for the first three months of the period and estimated data for the remaining three months. The filing shall include the RDA by group, including prior period reconciliation and calculation of the RDAF. Pursuant to this Settlement Agreement, rather than reconcile the RDA on an allocated basis as initially proposed by Unitil, the Company shall reconcile the RDA using the four customer class groups defined in subpart 4.2.1 above. The RDAF shall be calculated as a dollar per therm charge or credit based on the RDA for each group divided by the projected therm sales for each group over the prospective six-month period November through April and May through October ("the RDM Adjustment Period"). The RDAF shall be charged or credited to customer bills during the RDM Adjustment Period.

- 4.2.3 Unitil shall implement an RDA cap of 4.25 percent of approved distribution revenues as established by this Settlement for each group over the relevant Measurement Period(s) for over- and under-recoveries. To the extent that the RDA for a group, including prior period reconciliation exceeds 4.25 percent of distribution revenue, the amount over or under 4.25 percent shall be deferred, with carrying costs accrued monthly at the Prime Rate with said Prime Rate to be fixed on a quarterly basis and to be established as reported in *The Wall Street Journal* on the first business day of the month preceding the calendar quarter. If more than one interest rate is reported, the average of the reported rates shall be used. In the Company's next distribution rate case, parties to that proceeding may propose specific treatment of any carried balances remaining at that time.
- 4.2.4 The Settling Parties agree that the RDM shall be implemented at the proposed effective date of new permanent rates on August 1, 2022. At that time, Unitil shall cease accruing Lost Base Revenue ("LBR") due to energy efficiency and shall transition to decoupling as described in the August 2, 2021 Testimony of Christopher Goulding and Daniel Nawazelski at Bates pages 000111-113.

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4.2.5 With respect to the treatment of special contract revenue, the Company shall not implement its proposal to reconcile test year special contract revenue with actual revenue. The Settling Parties agree that if any special contract customers become tariff customers, they will be excluded from the RDM.

SECTION 5. STEP ADJUSTMENT

- 5.1 For purposes of calculating the Step Adjustment, the following definitions shall apply:
 - 5.1.1 <u>Accumulated Depreciation</u> is the cumulative net credit balance arising from the provision for depreciation expense, cost of removal, salvage, and retirements. Non-growth depreciation expense and retirements shall be apportioned to non-growth investments based upon the proportion of non-growth related Plant Additions relative to total Plant Additions in the Investment Year.
 - 5.1.2 <u>Change in Net Plant</u> is the change in Net Utility Plant from one Investment Year to the next, which accounts for Plant Additions as well as Accumulated Depreciation.
 - 5.1.3 <u>Change in Growth Net Plant</u> is the actual amount of growth-related Plant Additions in the Investment Year as set forth in Settlement Attachment 2 and Accumulated Depreciation. The amount of Depreciation Expense used in calculating Accumulated Depreciation is apportioned to growth-related Plant Additions based upon the proportion of growth-related Plant Additions relative to total Plant Additions in the Investment Year.
 - 5.1.4 <u>Change in Non-Growth Net Plant</u> is the difference between the total Change in Net Plant less the Change in Growth Net Plant for the Investment Year.
 - 5.1.5 <u>Depreciation Expense</u> is the return of the Company's investment calculated by multiplying the Non-Growth Additions by the average depreciation rate of 3.46 percent.
 - 5.1.6 Externally Imposed Accounting Rule Change shall be deemed to have occurred if the Financial Accounting Standards Board or the Securities and Exchange

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Northern Utilities, Inc. - New Hampshire Division Decoupling Target Distribution Revenues

Description	Effective August 1, 2022	Sep	Effective tember 1, 2022
Test Year Adjusted Distribution Revenues	\$ 39,796,840		
Permanent Rate Increase (1)	6,321,881		
Distribution Revenues	\$ 46,118,721	\$	46,118,721
Add: Step Adjustment (Illustrative)	-		1,554,966
Target Distribution Revenues	\$ 46,118,721	\$	47,673,687

Notes:

(1) Reflects permanent rate increase of \$6,091,477 plus \$231,477 related to the reduction of indirect production and A&G costs recovered as a part of the Company's Cost of Gas Clause

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Northern Utilities, Inc. - New Hampshire Division Decoupling Target Revenues by Class

Distribution Revenues	Resid	dent	al			(Commercial a	nd I	ndustrial			
August 1, 2022-July 31, 2023	R6		R5-R10	G40	G50		G41		G51	G42	G52	Total
Test Year Distribution Revenues	\$ 493,626	\$	20,731,783	\$ 6,745,829	\$ 1,024,226	\$	5,235,691	\$	1,396,947	\$ 1,545,114	\$ 2,623,624	\$ 39,796,840
Rate Increase	156,858		4,153,139	803,485	81,431		623,639		111,074	183,925	208,329	6,321,881
Distribution Revenues	\$ 650,484	\$	24,884,923	\$ 7,549,314	\$ 1,105,657	\$	5,859,330	\$	1,508,021	\$ 1,729,040	\$ 2,831,954	\$ 46,118,721
Add: Step Increase (Illustrative)	-		-	-	-		-		-	-	-	-
Target Distribution Revenues	\$ 650,484	\$	24,884,923	\$ 7,549,314	\$ 1,105,657	\$	5,859,330	\$	1,508,021	\$ 1,729,040	\$ 2,831,954	\$ 46,118,721

Distribution Revenues	Residen	tial			Commercial and	Industrial			
September 1, 2022-July 31, 2023	R6	R5-R10	G40	G50	G41	G51	G42	G52	Total
Distribution Revenues	\$ 650,484 \$	24,884,923 \$	7,549,314 \$	1,105,657 \$	5,859,330 \$	1,508,021 \$	1,729,040 \$	2,831,954 \$	46,118,72
Add: Step Increase (Illustrative)	21,932	839,035	254,537	37,279	197,557	50,845	58,297	95,484	1,554,96
Target Distribution Revenues	\$ 672,416 \$	25,723,957 \$	7,803,851 \$	1,142,936 \$	6,056,886 \$	1,558,867 \$	1,787,337 \$	2,927,437 \$	47,673,68

Northern Utilities, Inc. - New Hampshire Division Decoupling Target Revenue Per Customer (August 1, 2022 - July 31, 2023)

Effective August 1, 2022-July 31, 2023	Resi	dential				(Cor	nmercial	and	Industria						
Target Distribution Revenues	R6	R5-R10		G40		G50		G41		G51		G42		G52		Total
August	\$ 43,469	869,904	\$	440,087	\$	90,360	\$	224,198	\$	109,671	\$	81,872	\$	179,237	\$	2,038,797
September	45,061	1,065,619		471,242		89,712		266,617		110,685		90,199		193,243		2,332,378
October	49,036	1,544,043		546,135		89,697		386,028		117,578		121,777		197,663		3,051,958
November	56,938	2,380,112		676,041		92,963		571,508		129,681		162,326		285,141		4,354,712
December	67,596	3,410,170		841,505		99,163		784,836		145,866		205,766		313,238		5,868,140
January	70,787	3,822,380		907,302		101,082		864,510		150,812		232,479		273,823		6,423,175
February	65,398	3,461,729		848,677		98,465		785,679		143,803		212,555		303,245		5,919,552
March	61,346	3,013,885		773,827		94,858		686,417		139,369		194,882		281,262		5,245,846
April	53,002	2,015,950		617,331		86,058		466,208		121,141		149,170		279,727		3,788,586
May	49,588	1,435,099		527,417		86,742		347,432		118,302		109,412		177,511		2,851,503
June	45,129	1,022,468		463,646		87,704		257,466		112,031		87,286		175,188		2,250,918
July	43,134	843,564		436,103		88,852		218,430		109,081		81,314		172,675		1,993,154
12ME July	\$ 650,484	\$ 24,884,923	\$7	7,549,314	\$1	,105,657	\$5	5,859,330	\$1	1,508,021	\$1	,729,040	\$2	2,831,954	\$ 4	46,118,721

Effective August 1, 2022-July 31, 2023	Resi	den	tial			Con	nmercial a	and	Industria		
Customers in Authorized Rate Design	R6		R5-R10	G40	G50		G41		G51	G42	G52
August	\$ 1,277	\$	26,815	\$ 5,234	\$ 831	\$	704	\$	267	\$ 31	\$ 3
September	1,277		26,815	5,234	831		704		267	31	3
October	1,277		26,815	5,234	831		704		267	31	3
November	1,277		26,815	5,234	831		704		267	31	3
December	1,277		26,815	5,234	831		704		267	31	3
January	1,277		26,815	5,234	831		704		267	31	3
February	1,277		26,815	5,234	831		704		267	31	3
March	1,277		26,815	5,234	831		704		267	31	3
April	1,277		26,815	5,234	831		704		267	31	3
May	1,277		26,815	5,234	831		704		267	31	3
June	1,277		26,815	5,234	831		704		267	31	3
July	1,277		26,815	5,234	831		704		267	31	3

Effective August 1, 2022-July 31, 2023	Resi	den	tial			Coı	mmercial a	nd	Industrial			
Monthly Revenue Per Customer	R6		R5-R10	G40	G50		G41		G51	G42		G52
August	\$ 34.05	\$	32.44	\$ 84.08	\$ 108.68	\$	318.36	\$	411.52	\$ 2,641.02	\$	5,431.42
September	35.29		39.74	90.03	107.90		378.59		415.33	2,909.65		5,855.83
October	38.41		57.58	104.34	107.88		548.15		441.19	3,928.30		5,989.80
November	44.60		88.76	129.16	111.81		811.53		486.61	5,236.34		8,640.65
December	52.95		127.17	160.77	119.26		1,114.46		547.34	6,637.61		9,492.05
January	55.45		142.55	173.34	121.57		1,227.59		565.90	7,499.33		8,297.66
February	51.22		129.10	162.14	118.42		1,115.65		539.60	6,856.63		9,189.26
March	48.05		112.40	147.84	114.09		974.70		522.96	6,286.51		8,523.10
April	41.51		75.18	117.94	103.50		662.01		454.56	4,811.93		8,476.58
May	38.84		53.52	100.76	104.32		493.35		443.91	3,529.42		5,379.12
June	35.35		38.13	88.58	105.48		365.60		420.38	2,815.68		5,308.73
July	33.79		31.46	83.32	106.86		310.17		409.31	2,623.05		5,232.57
Total	\$ 509.50	\$	928.03	\$ 1,442.27	\$ 1,329.77	\$	8,320.15	\$	5,658.62	\$55,775.47	\$8	

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	erminants			Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms	C	Total alendarized Revenue	Re	lendarized evenue Per Sustomer
4	D 5	Decidential Heating	lamam.	26 474	2 500 455	0	2 560 455	ተ	2 726 400	ø	440.77
1	R-5	Residential Heating	January	26,171 26,171	3,569,155	0	3,569,155	\$	3,736,488	\$	142.77
2		Datas	February	26,171	3,167,143	0	3,167,143	\$	3,381,069	\$	129.19
3		Rates	March	26,171 26,171	2,668,501	0	2,668,501	\$	2,940,220	\$	112.35
4 5		Customer \$22.20	April	26,171 26,171	1,566,216	026 190	1,566,216 926,189	\$	1,965,690	\$	75.11 53.49
		φ22.20 Per Therm	May	26,171 26,171	0	926,189	471,753	\$	1,399,842 998,075	\$	33.49 38.14
6 7		\$0.8841	June	26,171 26,171	0	471,753	•	\$	823,875	\$ \$	30.14 31.48
8		φυ.004 Ι	July	26,171 26,171		274,716	274,716	_	849,527	э \$	31.46 32.46
			August	26,171 26,171	0	303,731	303,731	\$ \$	•	Ф \$	32.40 39.74
9 10			September October	26,171 26,171	0	519,219	519,219	Ï	1,040,040		57.60
10 11			November	26,171 26,171		1,047,855	1,047,855 1,975,568	\$ ¢	1,507,407	\$ \$	88.94
12			December	26,171 26,171	1,975,568 3,115,886	0	3,115,886	φ Φ	2,327,598	э \$	127.46
13			December	26,171	16,062,468	3,543,464	19,605,931	•	3,335,753 24,305,585	- \$	928.72
						, ,	, ,				
14	R-10	Res. Heating, Low Income	January	644	80,989	0	80,989	\$	85,892	\$	133.44
15		_	February	644	75,070	0	75,070	\$	80,660	\$	125.31
16		Rates	March	644	67,158	0	67,158	\$	73,665	\$	114.44
17		Customer	April	644	40,685	0	40,685	\$	50,260	\$	78.08
18		\$22.20	May	644	0	23,715	23,715	\$	35,257	\$	54.77
19		Per Therm	June	644	0	11,427	11,427	\$	24,393	\$	37.90
20		<i>\$0.8841</i>	July	644	0	6,106	6,106	\$	19,688	\$	30.59
21			August	644	0	6,885	6,885	\$	20,377	\$	31.66
22			September	644	0	12,769	12,769	\$	25,579	\$	39.74
23			October	644	0	25,275	25,275	\$	36,636	\$	56.92
24			November	644	43,235	0	43,235	\$	52,514	\$	81.58
25			December	644	68,009	0	68,009	\$	74,417	\$	115.61
26					375,147	86,179	461,326	\$	579,338	\$	900.02
27	R-6	Residential Non-Heating	January	1,277	32,447	0	32,447	\$	70,787	\$	55.45
28			February	1,277	28,328	0	28,328		65,398	\$	51.22
29		Rates	March	1,277	25,230	0	25,230	\$	61,346	\$	48.05
30		Customer	April	1,277	18,851	0	18,851	•	53,002	\$	41.51
31		\$22.20	May	1,277	0	16,241	16,241		49,588	\$	38.84
32		Per Therm	June	1,277	0	12,833	12,833	\$	45,129	\$	35.35
33		\$1.3081	July	1,277	0	11,308	11,308	•	43,134	\$	33.79
34		•	August	1,277	0	11,564	11,564		43,469	\$	34.05
35			September	1,277	0	12,781	12,781		45,061	\$	35.29
36			October	1,277	0	15,819	15,819	\$	49,036	\$	38.41
37			November	1,277	21,860	0	21,860	\$	56,938	\$	44.60
38			December	1,277		0	30,008	\$	67,596	\$	52.95
39				- , •	156,724	80,545	237,269	\$	650,484	\$	509.50

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	rminants		(Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms		Total alendarized Revenue	Re	lendarized evenue Per Customer
40	G-40/T-40	Low Annual, High Winter	January	5,234	2,105,842	0	2,105,842	•	907,302	\$	173.34
41	G- 4 0/1-40	Low Aimaai, riigii wiittei	February	5,234	1,853,148	0	1,853,148	Ψ \$	848,677	\$	162.14
42		Rates	March	5,234	1,530,519	0	1,530,519	\$	773,827	\$	147.84
43		Customer	April	5,234	855,965	0	855,965	\$	617,331	\$	117.94
44		\$80.00	May	5,234	0	468,408	468,408	\$	527,417	\$	100.76
45		Per Therm	June	5,234	0	193,531	193,531	\$	463,646	\$	88.58
46		\$0.2320	July	5,234	0	74,813	74,813	\$	436,103	\$	83.32
47		φυ.=υ=υ	August	5,234	0	91,982	91,982	\$	440,087	\$	84.08
48			September	5,234	0	226,274	226,274	\$	471,242	\$	90.03
49			October	5,234	0	549,088	549,088	\$	546,135	\$	104.34
50			November	5,234	1,109,028	0	1,109,028	\$	676,041	\$	129.16
51			December	5,234	1,822,234	0	1,822,234	\$	841,505	\$	160.77
52				-, -	9,276,737	1,604,096	10,880,833	\$	7,549,314	\$	1,442.27
53	G-50/T-50	Low Annual, Low Winter	January	831	165,778	0	165,778	\$	101,082	\$	121.57
54			February	831	153,226	0	153,226	\$	98,465	\$	118.42
55		Rates	March	831	135,926	0	135,926	\$	94,858	\$	114.09
56		Customer	April	831	93,720	0	93,720	\$	86,058	\$	103.50
57		\$80.00	May	831	0	97,002	97,002	\$	86,742	\$	104.32
58		Per Therm	June	831	0	101,613	101,613	\$	87,704	\$	105.48
59		\$0.2085	July	831	0	107,123	107,123	-	88,852	\$	106.86
60		·	August	831	0	114,352	114,352		90,360	\$	108.68
61			September	831	0	111,245	111,245		89,712	\$	107.90
62			October	831	0	111,176	111,176		89,697	\$	107.88
63			November	831	126,839	0	126,839	\$	92,963	\$	111.81
64			December	831	156,573	0	156,573	\$	99,163	\$	119.26
65					832,063	642,511	1,474,573	\$	1,105,657	\$	1,329.77
66	G-41/T-41	Med. Annual, High Winter	January	704	2,573,095	0	2,573,095	\$	864,510	\$	1,227.59
67			February	704	2,285,810	0	2,285,810	\$	785,679	\$	1,115.65
68		Rates	March	704	1,924,069	0	1,924,069	\$	686,417	\$	974.70
69		Customer	April	704	1,121,559	0	1,121,559	\$	466,208	\$	662.01
70		\$225.00	May	704	0	688,701	688,701	\$	347,432	\$	493.35
71		Per Therm	June	704	0	360,838	360,838	\$	257,466	\$	365.60
72		\$0.2744	July	704	0	218,577	218,577	\$	218,430	\$	310.17
73			August	704	0	239,596	239,596	\$	224,198	\$	318.36
74			September	704	0	394,184	394,184	\$	266,617	\$	378.59
75			October	704	0	829,358	829,358	\$	386,028	\$	548.15
76			November	704	1,505,305	0	1,505,305	\$	571,508	\$	811.53
77			December	704	2,282,740	0	2,282,740	\$	784,836	\$	1,114.46
78					11,692,577	2,731,254	14,423,832	\$	5,859,330	\$	8,320.15

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[1]
					Billing Dete	rminants		(Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms		Total alendarized Revenue	R	alendarized evenue Per Customer
79	G-51/T-51	Med. Annual, Low Winter	January	267	548,609	0	548,609	\$	150,812	¢	565.90
80	0-31/1-31	wed. Ailidai, Low Wille	February	267	506,285	0	506,285	\$	143,803	Ψ \$	539.60
81		Rates	March	267	479,510	0	479,510	\$	139,369	Ψ \$	522.96
82		Customer	April	267	369,435	0	369,435	\$	121,141	\$	454.56
83		\$225.00	May	267	0	352,292	352,292	\$	118,302	\$	443.91
84		Per Therm	June	267	0	314,422	314,422	\$	112,031	\$	420.38
85		\$0.1656	July	267	0	296,610	296,610	\$	109,081	\$	409.31
86		φοισσσ	August	267	0	300,172	•	\$	109,671	\$	411.52
87			September	267	0	306,298	306,298	\$	110,685	\$	415.33
88			October	267	0	347,918	347,918	\$	117,578	\$	441.19
89			November	267	421,008	0 17,010	421,008	\$	129,681	\$	486.61
90			December	267	518,741	0	518,741	\$	145,866	\$	547.34
91			2000		2,843,588	1,917,712	4,761,300	\$	1,508,021	\$	5,658.62
					_,,	- , ,	-,,	•	-,	•	-,
92	G-42/T-42	High Annual, High Winter	January	31	915,167	0	915,167	\$	232,479	\$	7,499.33
93		3 44, 3	February	31	819,517	0	819,517	\$	212,555	\$	6,856.63
94		Rates	March	31	734,670	0	734,670	\$	194,882	\$	6,286.51
95		Customer	April	31	515,218	0	515,218	\$	149,170	\$	4,811.93
96		\$1,350.00	May	31	0	324,350	324,350	\$	109,412	\$	3,529.42
97		Per Therm	June	31	0	218,129	218,129	\$	87,286	\$	2,815.68
98		<i>\$0.2083</i>	July	31	0	189,460	189,460	\$	81,314	\$	2,623.05
99		,	August	31	0	192,134	192,134	-	81,872		2,641.02
100			September	31	0	232,113	232,113		90,199		2,909.65
101			October	31	0	383,712	383,712		121,777		3,928.30
102			November	31	578,379	. 0	578,379	\$	162,326	\$	5,236.34
103			December	31	786,923	0	786,923	\$	•	\$	6,637.61
104					4,349,875	1,539,897	5,889,772	\$	1,729,040		55,775.47
105	G-52/T-52	High Annual, Low Winter	January	33	1,332,981	0	1,332,981	\$	273,823	\$	8,297.66
106		,	February	33	1,504,043	0	1,504,043	\$	303,245		9,189.26
107		Rates	March	33	1,376,235	0	1,376,235	\$	281,262		8,523.10
108		Customer	April	33	1,342,269	41,018	1,383,288	\$	279,727		8,476.58
109		\$1,350.00	May	33	5,650	1,257,039	1,262,689	\$	177,511	\$	5,379.12
110		Per Therm Summer	June	33	12,462	1,223,757	1,236,219	\$	175,188	\$	5,308.73
111		<i>\$0.1050</i>	July	33	0	1,220,236	1,220,236	\$	172,675	\$	5,232.57
112		Per Therm Winter	August	33	0	1,282,733	1,282,733	\$		\$	5,431.42
113		\$0.1720	September	33	0	1,416,119	1,416,119	\$		\$	5,855.83
114			October	33	43,229	1,387,409	1,430,639	\$	197,663	\$	5,989.80
115			November	33	1,381,287	28,665	1,409,953	\$	285,141	\$	8,640.65
116			December	33	· ·	0	1,562,138	\$	313,238	\$	9,492.05
117					8,560,295	7,856,979	16,417,274	\$	2,831,954		85,816.77
118		Total			54,149,473	20,002,636	74,152,109	\$	46,118,721		

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Northern Utilities, Inc. - New Hampshire Division Decoupling Target Revenue Per Customer (September 1, 2022 - July 31, 2023)

Effective September 1, 2022-July 31, 2023	3	Res	ide	ntial				Con	nmercial a	nd	Industrial					
Target Distribution Revenues		R6		R5-R10	G40		G50		G41		G51		G42		G52	Total
August (at August 1, 2022 Rates)	\$	43,469		869,904	\$ 440,087	\$	90,360	\$	224,198	\$	109,671	\$	81,872	\$	179,237	\$ 2,038,797
September		46,303		1,088,212	476,581		92,761		272,107		114,176		92,574		199,807	2,382,521
October		50,573		1,589,617	559,090		92,744		397,580		121,543		125,703		204,424	3,141,274
November		59,063		2,465,848	702,206		96,439		592,474		134,480		168,244		295,764	4,514,517
December		70,512		3,545,385	884,496		103,454		816,630		151,778		213,818		325,101	6,111,174
January		73,940		3,977,396	956,985		105,625		900,348		157,065		241,843		283,945	6,697,147
February		68,151		3,599,421	892,398		102,664		817,515		149,574		220,941		314,667	6,165,330
March		63,797		3,130,064	809,936		98,583		713,215		144,835		202,399		291,713	5,454,543
April		54,833		2,084,192	637,525		88,627		481,829		125,352		154,442		290,111	3,916,910
May		51,166		1,475,440	538,468		89,401		357,024		122,317		112,731		183,381	2,929,929
June		46,376		1,042,988	468,212		90,489		262,492		115,614		89,518		180,956	2,296,645
July		44,233		855,490	437,868		91,788		221,474		112,462		83,253		178,332	2,024,900
11ME July	\$	672,416	\$	25,723,957	\$ 7,803,851	\$1	1,142,936	\$6	6,056,886	\$1	,558,867	\$1	,787,337	\$2	2,927,437	\$ 47,673,687

Effective September 1, 2022-July 31, 2023	Res	ide	ntial			Cor	nmercial a	and	Industria		
Customers in Authorized Rate Design	R6		R5-R10	G40	G50		G41		G51	G42	G52
September	\$ 1,277	\$	26,815	\$ 5,234	\$ 831	\$	704	\$	267	\$ 31	\$ 3
October	1,277		26,815	5,234	831		704		267	31	3
November	1,277		26,815	5,234	831		704		267	31	3
December	1,277		26,815	5,234	831		704		267	31	3
January	1,277		26,815	5,234	831		704		267	31	3
February	1,277		26,815	5,234	831		704		267	31	3
March	1,277		26,815	5,234	831		704		267	31	3
April	1,277		26,815	5,234	831		704		267	31	3
May	1,277		26,815	5,234	831		704		267	31	3
June	1,277		26,815	5,234	831		704		267	31	3
July	1,277		26,815	5,234	831		704		267	31	3

Effective September 1, 2022-July 31, 2023	}	Res	ide	ntial			Cor	mmercial a	nd	Industrial			
Monthly Revenue Per Customer		R6		R5-R10	G40	G50		G41		G51	G42		G52
September	\$	36.27	\$	40.58	\$ 91.05	\$ 111.56	\$	386.39	\$	428.43	\$ 2,986.26	\$ 6	6,054.77
October		39.61		59.28	106.81	111.54		564.56		456.07	4,054.95	6	6,194.65
November		46.26		91.96	134.15	115.99		841.30		504.61	5,427.24	8	3,962.53
December		55.23		132.22	168.98	124.42		1,159.60		569.52	6,897.34	ç	9,851.53
January		57.91		148.33	182.83	127.04		1,278.48		589.36	7,801.39	8	3,604.40
February		53.38		134.23	170.49	123.47		1,160.86		561.25	7,127.11	ç	9,535.3
March		49.97		116.73	154.74	118.57		1,012.75		543.47	6,529.00	8	3,839.80
April		42.95		77.73	121.80	106.59		684.19		470.36	4,981.99	8	3,791.23
May		40.08		55.02	102.87	107.52		506.97		458.98	3,636.48	5	5,557.01
June		36.32		38.90	89.45	108.83		372.73		433.83	2,887.68	5	5,483.5 ²
July		34.65		31.90	83.65	110.39		314.49		422.00	2,685.58	5	5,403.99
Total	\$	492.63	\$	926.88	\$ 1,406.82	\$ 1,265.93	\$	8,282.32	\$	5,437.88	\$55,015.01	\$83	3,278.80

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Northern Utilities New Hampshire Target Revenue Per Customer (September 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	erminants			Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms	Ca	Total alendarized Revenue	Re	endarized venue Per ustomer
1	R-5	Residential Heating	January	26,171	3,569,155	0	3,569,155	\$	3,888,065	\$	148.56
2	IC-3	residential reading	February	26,171	3,167,143	0	• •	-	3,515,573	\$	134.33
3		Rates	March	26,171	2,668,501	0		\$	3,053,547	Ψ \$	116.68
4		Customer	April	26,171	1,566,216	0	1,566,216	•	2,032,205	\$	77.65
5		\$22.20	May	26,171	0	926,189	926,189	\$	1,439,176	\$	54.99
6		Per Therm	June	26,171	0	471,753	471,753	•	1,018,110	\$	38.90
7		\$0.9266	July	26,171	0	274,716	274,716		835,542	\$	31.93
8		ψ0.3200	August	26,171	0	303,731	303,731		862,426	\$	32.95
9			September	26,171	0	519,219	519,219	\$	1,062,090	\$	40.58
10			October	26,171	0	1,047,855	1,047,855	\$	1,551,908	\$	59.30
11			November	26,171	1,975,568	0	1,975,568	\$	2,411,497	\$	92.14
12			December	26,171	3,115,886	0	3,115,886	\$	3,468,080	\$	132.52
13			Becember	20,171	16,062,468	3,543,464	19,605,931	\$	25,138,219	\$	960.53
10					10,002,400	0,040,404	10,000,001	Ψ	20,100,210	Ψ	300.00
14	R-10	Res. Heating, Low Income	January	644	80,989	0	80,989	\$	89,331	\$	138.78
15			February	644	75,070	0	75,070	\$	83,848	\$	130.26
16		Rates	March	644	67,158	0	67,158	\$	76,517	\$	118.87
17		Customer	April	644	40,685	0	40,685	\$	51,988	\$	80.76
18		\$22.20	May	644	0	23,715	23,715	\$	36,264	\$	56.34
19		Per Therm	June	644	0	11,427	11,427	\$	24,878	\$	38.65
20		<i>\$0.9</i> 266	July	644	0	6,106	6,106	\$	19,948	\$	30.99
21			August	644	0	6,885	6,885	\$	20,670	\$	32.11
22			September	644	0	12,769	12,769	\$	26,122	\$	40.58
23			October	644	0	25,275	25,275	\$	37,709	\$	58.58
24			November	644	43,235	0	43,235	\$	54,350	\$	84.43
25			December	644	68,009	0	68,009	\$	77,305	\$	120.10
26					375,147	86,179	461,326	\$	598,929	\$	930.46
27	R-6	Residential Non-Heating	January	1,277	32,447	0	32,447	\$	73,940	\$	57.91
28			February	1,277	28,328	0	28,328		68,151	\$	53.38
29		Rates	March	1,277	25,230	0	25,230		63,797	\$	49.97
30		Customer	April	1,277	18,851	0		\$	54,833	\$	42.95
31		\$22.20	May	1,277	0	16,241	16,241	-	51,166	\$	40.08
32		Per Therm	June	1,277	0	12,833	12,833	\$	46,376	\$	36.32
33		\$1.4053	July	1,277	0	11,308	11,308	\$	44,233	\$	34.65
34		φσ <u>.</u>	August	1,277	0	11,564	11,564	-	44,593	\$	34.93
35			September	1,277	0	12,781		\$	46,303	\$	36.27
36			October	1,277	0	15,819	15,819	\$	50,573	\$	39.61
37			November	1,277	21,860	0	21,860		59,063	\$	46.26
38			December	1,277	30,008	0	30,008		70,512	\$	55.23
39			200111001	1,211	156,724	80,545	237,269		673,540	\$	527.56
33					100,127	30,373	201,203	Ψ	0.0,040	Ψ	JE1 100

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Northern Utilities New Hampshire Target Revenue Per Customer (September 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	rminants		(Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms		Total alendarized Revenue	R	alendarized evenue Per Customer
40	G-40/T-40	Low Annual, High Winter	January	5,234	2,105,842	0	2,105,842	\$	956,985	\$	182.83
41			February	5,234	1,853,148	0	1,853,148	\$	892,398	\$	170.49
42		Rates	March	5,234	1,530,519	0	1,530,519	\$	809,936	\$	154.74
43		Customer	April	5,234	855,965	0	855,965	\$	637,525	\$	121.80
44		\$80.00	May	5,234	0	468,408	468,408	\$	538,468	\$	102.87
45		Per Therm	June	5,234	0	193,531	193,531	\$	468,212	\$	89.45
46		<i>\$0.2556</i>	July	5,234	0	74,813	74,813	\$	437,868	\$	83.65
47			August	5,234	0	91,982	91,982	\$	442,257	\$	84.49
48			September	5,234	0	226,274	226,274	\$	476,581	\$	91.05
49			October	5,234	0	549,088	549,088	\$	559,090	\$	106.81
50			November	5,234	1,109,028	0	1,109,028	\$	702,206	\$	134.15
51			December	5,234	1,822,234	0	1,822,234	\$	884,496	-	168.98
52					9,276,737	1,604,096	10,880,833	\$			1,491.31
53	G-50/T-50	Low Annual, Low Winter	January	831	165,778	0	165,778	\$	105,625	\$	127.04
54			February	831	153,226	0	153,226	\$	102,664	\$	123.47
55		Rates	March	831	135,926	0	135,926	\$	98,583	\$	118.57
56		Customer	April	831	93,720	0	93,720	\$	88,627	\$	106.59
57		\$80.00	May	831	0	97,002	97,002	\$	89,401	\$	107.52
58		Per Therm	June	831	0	101,613	101,613	\$	90,489	\$	108.83
59		<i>\$0.2359</i>	July	831	0	107,123	107,123	\$	91,788	\$	110.39
60			August	831	0	114,352	114,352	\$	93,494	\$	112.44
61			September	831	0	111,245	111,245	\$	92,761	\$	111.56
62			October	831	0	111,176	111,176	\$	92,744	\$	111.54
63			November	831	126,839	0	126,839	\$	96,439	\$	115.99
64			December	831	156,573	0	156,573	\$	103,454	\$	124.42
65					832,063	642,511	1,474,573	\$	1,146,070	\$	1,378.37
66	G-41/T-41	Med. Annual, High Winter	January	704	2,573,095	0	2,573,095		900,348	-	1,278.48
67			February	704	2,285,810	0	2,285,810		817,515		1,160.86
68		Rates	March	704	1,924,069	0	1,924,069		713,215		1,012.75
69		Customer	April	704	1,121,559	0	1,121,559		481,829	-	684.19
70		\$225.00	May	704	0	688,701	688,701		357,024		506.97
71		Per Therm	June	704	0	360,838	360,838		262,492		372.73
72		\$0.2883	July	704	0	218,577	218,577		221,474		314.49
73			August	704	0	239,596	239,596	\$	227,535		323.10
74			September	704	0	394,184	394,184		272,107		386.39
75			October	704	0	829,358	829,358	\$	397,580		564.56
76			November	704	1,505,305	0	1,505,305	\$	592,474		841.30
77			December	704	2,282,740	0	2,282,740		816,630		1,159.60
78					11,692,577	2,731,254	14,423,832	\$	6,060,223	\$	8,605.42

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Northern Utilities New Hampshire Target Revenue Per Customer (September 1, 2022 - July 31, 2023) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	erminants			Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms	Ca	Total alendarized Revenue	Re	llendarized evenue Per Customer
79	G-51/T-51	Med. Annual, Low Winter	January	267	548,609	0	548,609	\$	157,065	\$	589.36
80	001/101	Med. Alliadi, Low Wille	February	267	506,285	0	506,285	\$	149,574	\$	561.25
81		Rates	March	267	479,510	0	479,510	\$	144,835	\$	543.47
82		Customer	April	267	369,435	0	369,435	\$	125,352	\$	470.36
83		\$225.00	May	267	0	352,292	352,292		122,317	\$	458.98
84		Per Therm	June	267	0	314,422	314,422		115,614	\$	433.83
85		\$0.1770	July	267	0	296,610	296,610	\$	112,462	\$	422.00
86		φοιιτισ	August	267	0	300,172	300,172		113,092	\$	424.36
87			September	267	0	306,298	306,298	\$	114,176	\$	428.43
88			October	267	0	347,918	347,918	\$	121,543	\$	456.07
89			November	267	421,008	0	421,008	\$	134,480	\$	504.61
90			December	267	518,741	0	518,741	\$	151,778	\$	569.52
91					2,843,588	1,917,712	4,761,300	\$	1,562,288	\$	5,862.24
92	G-42/T-42	High Annual, High Winter	January	31	915,167	0	915,167	\$	241,843	\$	7,801.39
93	0 .2,2		February	31	819,517	0	819,517	\$	220,941	\$	7,127.11
94		Rates	March	31	734,670	0	734,670	\$	202,399	\$	6,529.00
95		Customer	April	31	515,218	0	515,218	\$	154,442	\$	4,981.99
96		\$1,350.00	May	31	0	324,350	324,350	\$	112,731	\$	3,636.48
97		Per Therm	June	31	0	218,129	218,129	\$	89,518	\$	2,887.68
98		<i>\$0.2185</i>	July	31	0	189,460	189,460		83,253	\$	2,685.58
99		·	August	31	0	192,134	192,134		83,837	-	2,704.43
100			September	31	0	232,113	232,113		92,574	-	2,986.26
101			October	31	0	383,712	383,712		125,703	\$	4,054.95
102			November	31	578,379	0	578,379	\$	168,244	\$	5,427.24
103			December	31	786,923	0	786,923	\$	213,818	\$	6,897.34
104					4,349,875	1,539,897	5,889,772	_	1,789,303	\$	57,719.44
105	G-52/T-52	High Annual, Low Winter	January	33	1,332,981	0	1,332,981	\$	283,945	\$	8,604.40
106		,	February	33	1,504,043	0	1,504,043	\$	314,667		9,535.37
107		Rates	March	33	1,376,235	0	1,376,235	\$	291,713	\$	8,839.80
108		Customer	April	33	1,342,269	41,018	1,383,288	\$	290,111	\$	8,791.23
109		\$1,350.00	May	33	5,650	1,257,039	1,262,689	\$	183,381	\$	5,557.01
110		Per Therm Summer	June	33	12,462	1,223,757	1,236,219	\$	180,956	\$	5,483.51
111		<i>\$0.1096</i>	July	33	0	1,220,236	1,220,236	\$	178,332	\$	5,403.99
112		Per Therm Winter	August	33	0	1,282,733	1,282,733	\$	185,184	\$	5,611.62
113		\$0.1796	September	33	0	1,416,119	1,416,119	\$	199,807	\$	6,054.77
114			October	33	43,229	1,387,409	1,430,639	\$	204,424	\$	6,194.65
115			November	33	1,381,287	28,665	1,409,953	\$	295,764	\$	8,962.53
116			December	33	1,562,138	0	1,562,138	\$	325,101	\$	9,851.53
117					8,560,295	7,856,979	16,417,274	\$	2,933,384	\$	88,890.42
118		Total			54,149,473	20,002,636	74,152,109	\$	47,707,977		

Northern Utilities, Inc. - New Hampshire Division Decoupling Target Revenue Per Customer (August 1, 2023 - July 31, 2024)

Effective August 1, 2023-July 31, 2024	 Resi	der	ntial					Cor	nmercial a	and	Industrial					
Target Distribution Revenues	R6		R5-R10		G40		G50		G41		G51		G42		G52	Total
August	\$ 44,538	\$	882,891	\$	442,238	\$	93,251	\$	227,479	\$	112,876	\$	83,773	\$	184,835	\$ 2,071,883
September	46,242		1,087,862		476,536		92,524		272,016		113,956		92,497		199,423	2,381,056
October	50,498		1,588,912		558,980		92,508		397,388		121,293		125,575		204,027	3,139,181
November	58,959		2,464,520		701,985		96,170		592,126		134,177		168,051		295,141	4,511,129
December	70,370		3,543,292		884,133		103,121		816,102		151,406		213,555		324,405	6,106,384
January	73,786		3,974,997		956,565		105,273		899,752		156,671		241,538		283,352	6,691,933
February	68,017		3,597,290		892,028		102,339		816,986		149,210		220,667		313,998	6,160,534
March	63,678		3,128,266		809,631		98,294		712,770		144,490		202,154		291,101	5,450,383
April	54,744		2,083,136		637,354		88,427		481,570		125,086		154,270		289,502	3,914,089
May	51,089		1,474,815		538,375		89,195		356,865		122,064		112,622		183,037	2,928,063
June	46,315		1,042,671		468,173		90,273		262,409		115,389		89,445		180,618	2,295,292
July	44,179		855,305		437,854		91,561		221,424		112,249		83,190		178,000	2,023,761
12ME July	\$ 672,416	\$2	25,723,957	\$7	7,803,851	\$1	,142,936	\$6	6,056,886	\$1	1,558,867	\$ 1	,787,337	\$2	2,927,437	\$ 47,673,687

Effective August 1, 2023-July 31, 2024	Resi	den	tial			Con	nmercial a	and	Industria		
Customers in Authorized Rate Design	R6		R5-R10	G40	G50		G41		G51	G42	G52
August	\$ 1,277	\$	26,815	\$ 5,234	\$ 831	\$	704	\$	267	\$ 31	\$ 33
September	1,277		26,815	5,234	831		704		267	31	33
October	1,277		26,815	5,234	831		704		267	31	33
November	1,277		26,815	5,234	831		704		267	31	33
December	1,277		26,815	5,234	831		704		267	31	33
January	1,277		26,815	5,234	831		704		267	31	33
February	1,277		26,815	5,234	831		704		267	31	33
March	1,277		26,815	5,234	831		704		267	31	33
April	1,277		26,815	5,234	831		704		267	31	33
May	1,277		26,815	5,234	831		704		267	31	33
June	1,277		26,815	5,234	831		704		267	31	33
July	1,277		26,815	5,234	831		704		267	31	33

Effective August 1, 2023-July 31, 2024	Resi	den	tial			Co	mmercial a	nd	Industrial		
Monthly Revenue Per Customer	R6		R5-R10	G40	G50		G41		G51	G42	G52
August	\$ 34.89	\$	32.93	\$ 84.49	\$ 112.15	\$	323.02	\$	423.55	\$ 2,702.37	\$ 5,601.06
September	36.22		40.57	91.04	111.28		386.26		427.60	2,983.76	6,043.11
October	39.55		59.26	106.79	111.26		564.28		455.13	4,050.81	6,182.64
November	46.18		91.91	134.11	115.66		840.81		503.48	5,421.01	8,943.66
December	55.12		132.14	168.91	124.02		1,158.85		568.13	6,888.87	9,830.46
January	57.79		148.24	182.75	126.61		1,277.63		587.88	7,791.54	8,586.42
February	53.28		134.15	170.42	123.08		1,160.11		559.89	7,118.29	9,515.08
March	49.88		116.66	154.68	118.22		1,012.12		542.18	6,521.09	8,821.23
April	42.88		77.69	121.76	106.35		683.82		469.37	4,976.44	8,772.78
May	40.02		55.00	102.85	107.27		506.74		458.03	3,632.98	5,546.58
June	36.28		38.88	89.44	108.57		372.62		432.98	2,885.33	5,473.26
July	34.60		31.90	83.65	110.12		314.42		421.20	2,683.54	5,393.94
Total	\$ 526.68	\$	959.32	\$ 1,490.90	\$ 1,374.60	\$	8,600.68	\$	5,849.41	\$57,656.03	\$88,710.22

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2023 - July 31, 2024) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	rminants			Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms	C	Total alendarized Revenue	Re	llendarized evenue Per Customer
1	R-5	Residential Heating	January	26,171	3,569,155	0	3,569,155	\$	3,885,718	\$	148.47
2	11-5	Nesidential Heating	February	26,171	3,167,143	0	3,167,143	\$	3,513,491	Ψ \$	134.25
3		Rates	March	26,171	2,668,501	0	2,668,501	\$	3,051,793	Ψ \$	116.61
3 ∕1		Customer	April	26,171	1,566,216	0	1,566,216	\$	2,031,175	Ψ \$	77.61
5		\$22.20	May	26,171	1,300,210	926,189	926,189	\$	1,438,567	Ψ \$	54.97
		φ22.20 Per Therm	•			•	471,753		1,438,307	Ф \$	34.9 <i>1</i> 38.89
6 7		\$0.9259	June	26,171 26,171	0	471,753	•	\$ ¢	•	•	36.69 31.92
0		<i>ФО.92</i> 59	July	26,171	0	274,716	274,716	_	835,361	\$	
8			August	26,171	0	303,731	303,731	\$	862,226	\$	32.95
9			September	26,171	0	519,219	519,219	\$	1,061,749	\$	40.57
10			October	26,171	0	1,047,855	1,047,855	\$	1,551,219	\$	59.27
11			November	26,171	1,975,568	0	1,975,568	\$	2,410,199	\$	92.09
12			December	26,171	3,115,886	0	3,115,886	<u>*</u>	3,466,032	\$	132.44
13					16,062,468	3,543,464	19,605,931	\$	25,125,331	\$	960.04
14	R-10	Res. Heating, Low Income	January	644	80,989	0	80,989	\$	89,278	\$	138.70
15			February	644	75,070	0	75,070	\$	83,798	\$	130.18
16		Rates	March	644	67,158	0	67,158	\$	76,473	\$	118.80
17		Customer	April	644	40,685	0	40,685	\$	51,961	\$	80.72
18		\$22.20	May	644	0	23,715	23,715	\$	36,248	\$	56.31
19		Per Therm	June	644	0	11,427	11,427	\$	24,871	\$	38.64
20		<i>\$0.9259</i>	July	644	0	6,106	6,106	\$	19,944	\$	30.98
21			August	644	0	6,885	6,885	\$	20,665	\$	32.10
22			September	644	0	12,769	12,769	\$	26,113	\$	40.57
23			October	644	0	25,275	25,275	\$	37,693	\$	58.56
24			November	644	43,235	0	43,235	\$	54,322	\$	84.39
25			December	644	68,009	0	68,009	\$	77,261	\$	120.03
26					375,147	86,179	461,326	\$	598,626	\$	929.99
27	R-6	Residential Non-Heating	January	1,277	32,447	0	32,447	\$	73,786	\$	57.79
28			February	1,277	28,328	0	28,328	\$	68,017	\$	53.28
29		Rates	March	1,277	25,230	0	25,230	\$	63,678	\$	49.88
30		Customer	April	1,277	18,851	0	18,851	•	54,744	\$	42.88
31		\$22.20	May	1,277	0	16,241	16,241		51,089	\$	40.02
32		Per Therm	June	1,277	0	12,833	12,833	\$	46,315	\$	36.28
33		\$1.4005	July	1,277	0	11,308	11,308	\$	44,179	Ψ \$	34.60
34		Ψ11000	August	1,277	0	11,564	11,564	•	44,538	Ψ \$	34.89
35			September	1,277	0	12,781	12,781		46,242	Ψ \$	36.22
36			October	1,277	0	15,819	15,819		50,498	э \$	39.55
36 37				1,277	_			\$ ¢			39.55 46.18
			November	•	21,860	0	21,860	\$ ¢	58,959 70,370	\$ ¢	
38			December	1,277	30,008	0 545	30,008	\$	70,370	\$	55.12
39					156,724	80,545	237,269	\$	672,416	\$	526.68

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2023 - July 31, 2024) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[7]
					Billing Dete	rminants		(Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms		Total alendarized Revenue	Re	lendarized venue Per customer
40	G-40/T-40	Low Annual, High Winter	January	5,234	2,105,842	0	2,105,842	\$	956,565	\$	182.75
41	G-40/1-40	Low Aimaai, mgii wiiitei	February	5,234	1,853,148	0	1,853,148	φ \$	892,028	\$	170.42
42		Rates	March	5,234	1,530,519	0	1,530,519	Ψ \$	809,631	\$	154.68
43		Customer	April	5,234	855,965	0	855,965	\$	637,354	\$	121.76
44		\$80.00	May	5,234	000,000	468,408	468,408	\$	538,375	\$	102.85
45		Per Therm	June	5,234	0	193,531	193,531	\$	468,173	\$	89.44
46		\$0.2554	July	5,234	0	74,813	74,813	•	437,854	\$	83.65
47		ψυ.2334	August	5,234	0	91,982	91,982		442,238	\$	84.49
48			September	5,234	0	226,274	226,274	Ψ \$	476,536	\$	91.04
49			October	5,234 5,234	0	549,088	549,088	φ \$	558,980	\$	106.79
50			November	5,234 5,234	1,109,028	349,000 0	1,109,028	φ \$	701,985	φ \$	134.11
50 51			December	5,234 5,234	· ·	0	1,822,234	φ Φ	884,133	Ф \$	168.91
52			December	5,234	9,276,737	1,604,096	10,880,833	φ \$	7,803,851	<u>φ</u> \$	1,490.90
32					9,270,737	1,004,090	10,000,033	Ф	7,003,031	Ф	1,490.90
53	G-50/T-50	Low Annual, Low Winter	January	831	165,778	0	165,778	\$	105,273	\$	126.61
54			February	831	153,226	0	153,226	\$	102,339	\$	123.08
55		Rates	March	831	135,926	0	135,926	\$	98,294	\$	118.22
56		Customer	April	831	93,720	0	93,720	\$	88,427	\$	106.35
57		\$80.00	May	831	0	97,002	97,002	\$	89,195	\$	107.27
58		Per Therm	June	831	0	101,613	101,613	\$	90,273	\$	108.57
59		<i>\$0.2338</i>	July	831	0	107,123	107,123	\$	91,561	\$	110.12
60			August	831	0	114,352	114,352	\$	93,251	\$	112.15
61			September	831	0	111,245	111,245	\$	92,524	\$	111.28
62			October	831	0	111,176	111,176	\$	92,508	\$	111.26
63			November	831	126,839	0	126,839	\$	96,170	\$	115.66
64			December	831	156,573	0	156,573	\$	103,121	\$	124.02
65					832,063	642,511	1,474,573		1,142,936	\$	1,374.60
66	G-41/T-41	Med. Annual, High Winter	January	704	2,573,095	0	2,573,095	\$	899,752	\$	1,277.63
67		moar / imaan, ringir rrintor	February	704	2,285,810	0	2,285,810		816,986	\$	1,160.11
68		Rates	March	704	1,924,069	0	1,924,069	\$	712,770	\$	1,012.12
69		Customer	April	704	1,121,559	0	1,121,559	•	481,570	\$	683.82
70		\$225.00	May	704	0	688,701	688,701		356,865	\$	506.74
71		Per Therm	June	704	0	360,838	360,838	-	262,409	\$	372.62
71 72		\$0.2881	July	704	0	218,577	218,577		202,403	•	314.42
73		ψυ.200 Ι	August	704	0	239,596	239,596		227,479		323.02
73 74			September	704	0	394,184	394,184		272,016	\$ \$	386.26
74 75			October	704	0	829,358	829,358	-	397,388	Ф \$	564.28
75 76			November	704	1,505,305	029,330	1,505,305		592,126	Ф \$	840.81
76 77			December	704 704	2,282,740	0	2,282,740		816,102	э \$	1,158.85
7 <i>1</i> 78			Pecellinel	704	11,692,577	2,731,254			6,056,886		8,600.68
10					11,082,377	2,131,234	14,423,832	Φ	0,050,000	\$	0,000.00

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Northern Utilities New Hampshire Target Revenue Per Customer (August 1, 2023 - July 31, 2024) Proposed Revenue by Calendar Month

[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]		[1]		[J]
					Billing Dete	erminants		(Calendar Mo	nth	Revenue
Line	Rate Class	Description	Month	Pro Forma Test Year Customers	Winter Therms	Summer Therms	Total Calendarized Therms		Total alendarized Revenue	R	alendarized evenue Per Customer
79	G-51/T-51	Med. Annual, Low Winter	January	267	548,609	0	548,609	¢	156,671	\$	587.88
80	G-31/1-31	wed. Ailidai, Low willer	February	267	506,285	0	506,285	φ \$	149,210	φ \$	559.89
81		Rates	March	267	479,510	0	•	φ \$	144,490	φ \$	542.18
82		Customer	April	267	369,435	0	369,435	Ψ \$	125,086	Ψ \$	469.37
83		\$225.00	May	267	0	352,292		Ψ \$	122,064	Ψ \$	458.03
84		Per Therm	June	267	0	314,422	•	\$	115,389	\$	432.98
85		\$0.1763	July	267	0	296,610		Ψ \$	112,249	Ψ \$	421.20
86		φο.1703	August	267	0	300,172	300,172	•	112,876	\$	423.55
87			September	267	0	306,298	306,298	\$	113,956	\$	427.60
88			October	267	0	347,918		Ψ \$	121,293	\$	455.13
89			November	267	421,008	047,510	421,008	Ψ \$	134,177	Ψ \$	503.48
90			December	267	518,741	0	518,741	\$	151,406	\$	568.13
91			December	201	2,843,588	1,917,712	4,761,300	\$	1,558,867		5,849.41
•					2,0 .0,000	.,0,	1,1 0 1,000	•	1,000,001	•	0,0 .0
92	G-42/T-42	High Annual, High Winter	January	31	915,167	0	915,167	\$	241,538	\$	7,791.54
93	0 12,1 12	g /a,g	February	31	819,517	0	819,517	\$	220,667	\$	7,118.29
94		Rates	March	31	734,670	0	•	\$	•	\$	6,521.09
95		Customer	April	31	515,218	0	515,218	\$	154,270	\$	4,976.44
96		\$1,350.00	May	31	0	324,350	324,350	\$	112,622	\$	3,632.98
97		Per Therm	June	31	0	218,129	218,129	•	89,445	\$	2,885.33
98		\$0.2182	July	31	0	189,460	189,460		83,190		2,683.54
99		7	August	31	0	192,134	192,134	-	83,773		2,702.37
100			September	31	0	232,113	232,113		92,497		2,983.76
101			October	31	0	383,712	383,712		125,575		4,050.81
102			November	31	578,379	0	•	\$	168,051	\$	5,421.01
103			December	31	786,923	0	786,923		213,555	•	6,888.87
104					4,349,875	1,539,897	5,889,772		1,787,337		57,656.03
105	G-52/T-52	High Annual, Low Winter	January	33	1,332,981	0	1,332,981	\$	283,352	\$	8,586.42
106	0 02, 1 02	9 /	February	33	1,504,043	0	1,504,043		313,998		9,515.08
107		Rates	March	33	1,376,235	0	1,376,235	\$	291,101	\$	8,821.23
108		Customer	April	33	1,342,269	41,018	1,383,288	•	289,502	•	8,772.78
109		\$1,350.00	Мау	33	5,650	1,257,039	1,262,689		183,037		5,546.58
110		Per Therm Summer	June	33	12,462	1,223,757	1,236,219	\$	180,618	\$	5,473.26
111		\$0.1094	July	33	0	1,220,236	1,220,236	•	178,000	•	5,393.94
112		Per Therm Winter	August	33	0	1,282,733	1,282,733		184,835		5,601.06
113		\$0.1791	September	33	0	1,416,119	•	\$	199,423		6,043.11
114		y 00.	October	33	43,229	1,387,409		\$	204,027	-	6,182.64
115			November	33	1,381,287	28,665	1,409,953		295,141	\$	8,943.66
116			December	33		0	1,562,138		324,405	\$	9,830.46
117			20001111001	30	8,560,295	7,856,979	16,417,274		2,927,437		88,710.22
118		Total			54,149,473	20,002,636	74,152,109	\$	47,673,687		

NORTHERN UTILITIES, INC.

DIRECT TESTIMONY

OF

TIMOTHY S. LYONS

EXHIBIT TSL-1

New Hampshire Public Utilities Commission

Docket No. DG 21-104

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Schedule TSL-4 – Revenue Per Customer Calculation

1		I. <u>INTRODUCTION</u>
2	Q.	Please state your name, occupation and business address.
3	A.	My name is Timothy S. Lyons. I am a Partner with ScottMadden, Inc. My business
4		address is 1900 West Park Drive, Suite 250, Westborough, Massachusetts 01581.
5		
6	Q.	On whose behalf are you submitting this testimony?
7	A.	I am submitting this testimony on behalf of Northern Utilities, Inc. ("Northern" or
8		the "Company").
9		
10	Q.	Please describe your professional experience.
11	A.	I have more than 30 years of experience in the energy industry. I started my career
12		in 1985 at Boston Gas Company, eventually becoming Director of Rates and
13		Revenue Analysis. In 1993, I moved to Providence Gas Company, eventually
14		becoming Vice President of Marketing and Regulatory Affairs. Starting in 2001, I
15		held a number of management consulting positions in the energy industry first at
16		KEMA and then at Quantec, LLC. In 2005, I became Vice President of Sales and
17		Marketing at Vermont Gas Systems, Inc. before joining Sussex Economic Advisors,
18		LLC ("Sussex") in 2013. Sussex was acquired by ScottMadden in 2016.
19		
20	Q.	What is your educational background?
21	A.	I hold a bachelor's degree from St. Anselm College, a master's degree in Economics
22		from The Pennsylvania State University, and a master's degree in Business

Administration from Babson College. A summary of my professional and educational background, including a list of my testimony in prior proceedings, is included in Schedule TSL-1.

A.

II. PURPOSE OF TESTIMONY

Q. What is the purpose of your testimony?

The purpose of my testimony is to sponsor the Company's proposed revenue decoupling mechanism ("RDM") and associated tariff. The RDM addresses the basic misalignment between the structure of the Company's costs and its rates. Specifically, utility distribution costs are largely fixed and change very little in the short run with changes in usage levels. However, distribution rates have a significant variable, or usage-based, component that changes revenues (and cost recovery) with changes in usage levels. The RDM corrects for this misalignment by adjusting the Company's actual revenues to match its authorized revenues. RDMs have been approved in numerous jurisdictions, including New Hampshire, and are viewed in the industry as important to the development of Energy Efficiency ("EE") initiatives.

Q. How is the remaining portion of your testimony organized?

20 A. The remaining portion of my testimony is organized into the following sections.

1		• Section III provides an overview of revenue decoupling, including the
2		Commission's guidance in the Gas and Electric Utilities Energy Efficiency
3		Resource Standard proceeding ("EERS" proceeding). ¹
4		• Section IV describes the proposed RDM.
5		• Section V illustrates the calculation of the proposed RDM for the residential
6		rate class.
7		• Section VI summarizes the benefits of the proposed RDM.
8		
9		III. OVERVIEW OF REVENUE DECOUPLING
10	Q.	What is revenue decoupling?
10	Q.	What is revenue decoupling.
11	A.	Revenue decoupling breaks or "decouples" the link between utility revenues and
11		Revenue decoupling breaks or "decouples" the link between utility revenues and
11 12		Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its
111213		Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its authorized revenue requirement. There are two basic forms of revenue decoupling:
11121314		Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its authorized revenue requirement. There are two basic forms of revenue decoupling: • Partial or Limited Revenue Decoupling – this type addresses specific
11 12 13 14 15		Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its authorized revenue requirement. There are two basic forms of revenue decoupling: • Partial or Limited Revenue Decoupling – this type addresses specific variances between actual and authorized revenues, such as the impact of
11 12 13 14 15		Revenue decoupling breaks or "decouples" the link between utility revenues and sales volumes, helping to ensure that a utility does not over- or under-recover its authorized revenue requirement. There are two basic forms of revenue decoupling: • Partial or Limited Revenue Decoupling – this type addresses specific variances between actual and authorized revenues, such as the impact of weather or EE. The Company's current Lost Revenue Rate ("LRR") within

actual and authorized revenues. The Company's proposed RDM is an

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¹ Docket DE 15-137

1 example of full revenue decoupling. Variances can be measured on the basis 2 of total revenues, or revenues per customer ("RPC"). 3 4 Has the Commission approved a revenue decoupling mechanism for New Q. 5 Hampshire gas and electric utilities? 6 A. Yes. The Commission approved a lost revenue adjustment mechanism ("LRAM"), 7 a partial or limited revenue decoupling mechanism, for all electric and gas utilities in the EERS proceeding,² noting: 8 9 "...without the LRAM, or a change in the way rates are designed 10 today, the utilities may lose revenue that the Commission has 11 already determined in the utility's rate case is just and reasonable 12 for them to recover. Consequently, we approve the LRAM as 13 proposed."3 14 In the EERS proceeding, the Commission recognized the limitations of an LRAM 15 and the role a full revenue decoupling mechanism can play in ensuring that the 16 utility does not over- or under-recover its authorized revenue requirement. 4 17 The Commission therefore required utilities to seek approval of a revenue 18 decoupling mechanism, stating:

² Docket DE 15-137, Order No 25,932

³ Id., p. 59

⁴ Id., p. 59-60 ("[W]e are mindful that, with an LRAM, the utilities' revenues can increase above their authorized revenue requirements from increased sales, and, for that reason and others, some parties prefer decoupling. This is because decoupling provides a reconciliation to the last-approved revenue requirement.")

2 subsequent consideration and approval at any time of a different lost 3 revenue recovery mechanism, and that the Joint Utilities (except 4 NHEC) are required to seek approval of a decoupling or other lost-5 revenue recovery mechanism as an alternate to the LRAM in their 6 first distribution rate cases after the first EERS triennium, if not before."5 7 Following the EERS proceeding, the Commission approved full revenue 8 9 decoupling mechanisms for Liberty Utilities (EnergyNorth Natural Gas) Corporation, ⁶ and Liberty Utilities (Granite State Electric) Corporation. ⁷ 10 11 The Company's proposed RDM is generally consistent with the revenue 12 decoupling mechanism approved for Liberty Utilities (Granite State Electric) 13 Corporation and the revenue decoupling mechanism recently filed by the

"We note that our approval of the LRAM does not limit our

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Q. Please provide an overview of the Company's proposed RDM.

17 A. The proposed RDM is a full revenue decoupling mechanism that reconciles
18 monthly actual and authorized RPC by rate class. The proposed RDM is applicable
19 to all rate classes. The Company proposes that the authorized RPC be adjusted

Company's New Hampshire electric division (Unitil Energy Systems, Inc.)⁸.

⁵ Id., p. 60

⁶ Docket DE 17-048, Order No. 26,122 at pp. 45-46 ("We applaud Liberty for proposing a decoupling mechanism to replace the LRAM.").

⁷ Docket DE 19-064, Order No. 26,376 at pp. 9, 13 (approving a Settlement Agreement supporting the implementation of a decoupling mechanism).

⁸ Docket DE 21-030.

annually to reflect three estimated annual step increases on August 1, 2022 of \$3.1 million; August 1, 2023 of \$3.1 million; and August 1, 2024 of \$3.2 million associated with 2021, 2022 and 2023 capital investments.

The proposed RDM process will consist of two steps:

In the first step, the Company will record monthly variances between actual and authorized RPC for each rate class. The monthly variances are then aggregated over the twelve-month period August through July (the "Measurement Period"). The monthly variances are recorded in a deferred account with carrying costs accrued at the Prime rate. The aggregate variances and carrying costs form the basis for the revenue decoupling adjustment ("RDA") and the calculation of RDM adjustment factor ("RDAF") (surcharge or credit). For example, revenue surpluses (actual RPC is greater than authorized RPC) during the Measurement Period will result in a credit or refund for the customers. Conversely, revenue shortfalls (i.e., actual RPC is less than authorized RPC) during the Measurement Period will result in a surcharge to the customers.

In the second step, the Company will file with the Commission the applicable RDAF 45 days in advance of the effective date of November 1. The filing will include an allocation of the RDA, including prior period reconciliation and deferrals as a result of a cap, to each rate class, and calculation of the RDAF.

⁹ Interest shall be calculated at the prime rate, with said prime rate to be fixed on a quarterly basis and to be established as reported in the <u>Wall Street Journal</u> on the first business day of the month preceding the calendar quarter. If more than one interest rate is reported, the average of the reported rates shall be used.

1		The RDA is allocated to each rate class based on the authorized revenues of
2		each rate class in the most recent rate case, including step adjustments.
3		The RDAF is calculated as a dollar per therm charge or credit based on the
4		RDA allocated to each rate class divided by the projected therm sales for each rate
5		class over the prospective twelve-month period November through October ("RDM
6		Adjustment Period"). The RDAF will be charged or credited to customer bills
7		during the RDM Adjustment Period.
8		The tariff for the Company's proposed RDM is included in Schedule TSL-
9		2. Upon implementation of its first RDAF, the Company will incorporate the
10		supporting RDAF calculation in its RDAC tariff.
1.1		
11		
11	Q.	What are the primary benefits of the Company's proposed RDM?
	Q. A.	What are the primary benefits of the Company's proposed RDM? There are three primary benefits of the Company's proposed RDM:
12		
12 13		There are three primary benefits of the Company's proposed RDM:
12 13 14		There are three primary benefits of the Company's proposed RDM: 1. It corrects the basic misalignment between utility rates and costs;
12 13 14 15		There are three primary benefits of the Company's proposed RDM: 1. It corrects the basic misalignment between utility rates and costs; 2. It supports achievement of certain policy objectives, such as EE initiatives; and
12 13 14 15 16		There are three primary benefits of the Company's proposed RDM: 1. It corrects the basic misalignment between utility rates and costs; 2. It supports achievement of certain policy objectives, such as EE initiatives; and
12 13 14 15 16	A.	There are three primary benefits of the Company's proposed RDM: 1. It corrects the basic misalignment between utility rates and costs; 2. It supports achievement of certain policy objectives, such as EE initiatives; and 3. It helps stabilize utility cost recovery as well as customer bills.
12 13 14 15 16 17	A. Q.	There are three primary benefits of the Company's proposed RDM: 1. It corrects the basic misalignment between utility rates and costs; 2. It supports achievement of certain policy objectives, such as EE initiatives; and 3. It helps stabilize utility cost recovery as well as customer bills. Please discuss the basic misalignment between utility rates and costs.

1		• <u>Demand-related costs</u> – including transmission and distribution costs that
2		generally vary by demand; and
3		• <u>Commodity-related costs</u> – including variable Operating and Maintenance
4		expenses that generally vary by therm sales or natural gas consumed.
5		Utility revenue requirements and rates are designed to recover all of these costs.
6		However, especially for residential customers, a significant portion of the revenue
7		requirements are recovered on the basis of consumption charges reflecting usage at
8		the time rates are established (i.e., rates are set based on an assumed level of usage).
9		Thus, to the extent that actual usage is significantly lower than the assumed level
10		of usage in rates, the utility rates no longer recover the authorized revenue
11		requirements. Conversely, to the extent that actual usage is significantly higher
12		than the assumed level of usage in rates, then utility rates recover more than the
13		authorized revenue requirements.
14		Revenue decoupling corrects for this misalignment by adjusting revenues
15		to match the authorized revenue requirements.
16		
17	Q.	Has the Commission recognized this misalignment between utility rates and
18		costs?
19	A.	Yes. In the EERS proceeding, the Commission noted this misalignment in the
20		context of energy savings due to EE programs. The Commission stated: "With

increased energy savings comes decreased utility revenues due to standard rate

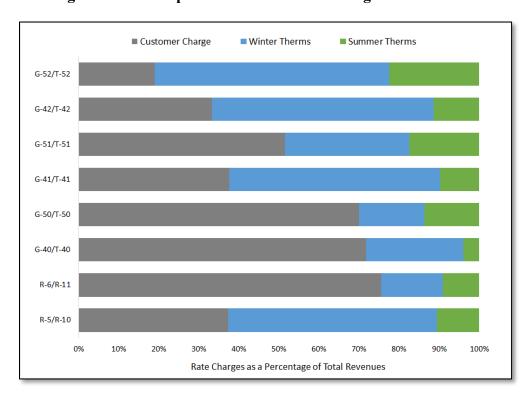
design, which recovers costs through a variable, or consumption-based, rate."¹⁰

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- 4 Q. Do the Company's current rates exhibit this misalignment between utility costs and rates?
- A. Yes. The portion of the Company's charges that are based on consumption (therm
 sales) is significant, as shown in Figure 1.

Figure 1: Consumption Revenues as Percentage of Total Revenues¹¹



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The Figure shows that a significant portion of the Company's residential and commercial distribution revenues are recovered through usage (therms). For

¹⁰ Docket DE 15-137, Order No 25,932, p. 59

¹¹ Source: Settlement Agreement in Docket DG 17-070, Exhibit 2.

1 example, the Figure shows that approximately 60 percent of Residential Heating 2 (R-5 and R-10 rate classes) revenues are recovered through consumption charges. 3 4 Please discuss how revenue decoupling supports certain policy objectives. Q. 5 The proposed RDM supports certain policy objectives, such as EE initiatives. A. 6 Recovery of fixed costs through variable charges creates an inherent financial 7 disincentive for utilities to promote initiatives that reduce customer consumption 8 and has been referenced as a "primary barrier to aggressive utility investment in 9 energy efficiency."¹² 10 The RDM removes this financial disincentive, facilitating policies aimed to 11 encourage EE initiatives. The Commission has noted: "Decoupling . . . was 12 designed to sever the link between sales and revenues to remove [a utility's] disincentive to promote energy conservation that is inherent in traditional 13 ratemaking."13 14 15 16 Q. Has the utility industry recognized the benefits of RDM in achieving policy 17 objectives? 18 Yes. Revenue decoupling is recognized by the utility industry as an essential tool 19 in promoting EE initiatives. An ACEEE report states: "For energy efficiency to

¹² National Action Plan for Energy Efficiency (2007): Aligning Utility Incentives with Investment in Energy Efficiency, at p. ES-3

¹³ Docket DG 19-145, Order No 26,306 at p. 7.

1 flourish, the use of decoupling needs to be expanded so that utilities can recover 2 their fixed costs even if sales decline."14 Moreover, the benefits of revenue 3 decoupling are recognized in regulatory jurisdictions throughout the U.S. Full revenue decoupling is currently in effect in 22 jurisdictions, including New 4 5 Hampshire. In New England, full revenue decoupling is currently in effect for 20 of 26 electric and gas utilities, as shown in Schedule TSL-3.15 6 7 8 9 IV. NORTHERN'S PROPOSED REVENUE DECOUPLING MECHANISM 10 Q. What are the key features of the Company's proposed RDM? 11 A. There are seven key features of the Company's proposed RDM discussed in this 12 section, including: 13 1. Type of RDM 14 2. Revenue Adjustments 15 3. Applicable Rate Classes 16 4. Deferred Account 17 5. Class Allocation 18 6. Factor Calculation 19 7. Adjustment Cap 20

¹⁴ ACEEE The Future of the Utility Industry and the Role of Energy Efficiency (June 2014), at p. viii ¹⁵ S&P Global Market Intelligence. Data as of April 12, 2021.

1. Type of RDM

Q. What type of RDM is the Company proposing?

A. The Company's proposed RDM is a full revenue decoupling mechanism. The proposed RDM reconciles monthly variances between actual and authorized RPC for each rate class. As discussed earlier, full revenue decoupling better accomplishes the Commission's policy objective to severe the link between volumes and revenues, providing a greater incentive to pursue energy efficiency, as compared to partial or limited revenue decoupling.

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Q. What is the primary benefit of the proposed RPC approach?

The primary benefit of the proposed RPC approach is the recognition of new customer revenues. The Company expects to add new customers and incur incremental costs to serve new customers during the term of the RDM. The incremental costs are related to providing new customers with access to the distribution system and meeting their demand requirements. Under the RPC approach, the Company retains the RPC associated with serving new customers that is used to offset the costs associated with new customers.

By comparison, under a total revenue approach, the Company does not retain incremental revenues to offset the incremental costs, creating an adverse financial impact when adding new customers.

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2. Revenue Adjustments

Q. Is the Company proposing annual adjustments to the authorized RPC?

Yes. The Company proposes that the authorized RPC be adjusted annually to reflect three estimated step increases on August 1, 2022 of \$3.1 million, August 1, 2023 of \$3.1 million, and August 1, 2024 of \$3.2 million associated with the 2021, 2022 and 2023 capital investments, as discussed in the testimony of Company witnesses Messrs. Christopher Goulding and Daniel Nawazelski.

Schedule TSL-4 shows derivation of the authorized RPC for the first step increase on August 1, 2022. Specifically, the Schedule shows the authorized RPC is based on the authorized revenues divided by the number of customers included in the authorized rate design. The authorized revenues are based on the target distribution revenues plus the step increase.

For example, the authorized RPC in August 2022 for the residential heating class of \$40.49 is based on the authorized revenues of \$51,687 divided by the number of customers included in the authorized rate design of 1,277. The authorized revenues of \$51,687 are based on the target distribution revenues of \$48,504 plus the 2022 step increase of \$3,183.

A.

Q. Why is the Company proposing the annual adjustments?

A. The Company proposes the annual adjustments to align the authorized revenue requirements with the authorized RPC. In other words, as the Company's

1 authorized revenue requirement increases as a result of the step increases, the 2 Company's authorized RPC should similarly increase. 3 4 3. Applicable Rate Classes 5 Q. What rate classes would the proposed RDM apply to? 6 A. The Company proposes that the RDM be applicable to the Company's Residential 7 Heating and Non-Heating Service (Schedules R-5 and R10 combined, and R-6), 8 Commercial and Industrial Service (Schedules G-40, G-50, G-41, G-42, G-51, and 9 G-52) customer classes. The revenues associated with special contracts will not be 10 included as part of the RDM. 11 12 4. Deferred Account 13 Q. Is the Company proposing to establish a deferred account to record variances 14 between actual and authorized RDM? 15 A. Yes. The Company proposes to establish a deferred account to record monthly 16 variances between actual and authorized RPC. The monthly variances will be 17 calculated by rate class and then recorded in a deferred account with carrying costs 18 at the Prime rate. 19 The aggregate monthly variances and carrying costs form the basis for the 20 RDA and the calculation of RDAF (surcharge or credit). For example, revenue 21 surpluses (i.e., actual RPC greater than authorized RPC) during the Measurement 22 Period will result in a credit or refund to customers, while revenue shortfalls (i.e.,

actual RPC less than authorized RPC) during the Measurement Period will result in a surcharge to customers.

A.

Q. What is the proposed process to establish the RDAF?

The Company proposes to file with the Commission the applicable RDAF 45 days before the effective date of November 1. The filing will include an allocation of the RDA to each rate class, and the calculation of the RDAF. The RDA is allocated to each rate class based on the authorized revenues of each rate class in the most recent rate case, including step adjustments. The RDAF will be calculated as a dollar per therm charge or credit based on the RDA allocated to each rate class divided by the projected therm sales for each rate class over the RDM Adjustment Period (prospective 12-month period November through October). The RDAF will be charged or credited to customer bills during the RDM Adjustment Period. The RDM process will follow the schedule below.

Dates	Activity
August 1 through July 31	Measure and record monthly in a deferred account the revenue variances between actual and authorized RPC
On or about September 17 (45 days before November 1)	File with the Commission the RDAF based on the aggregate monthly revenue variances and monthly carrying costs on the deferred account balances
November 1 through October 31	Apply the RDAF to customer bills

5. Class Allocation

1	Q.	How will the revenue decoupling adjustment be allocated to each rate class?
2	A.	The RDA will be allocated to each rate class based on the proportion of authorized
3		revenues in the most recent rate case, including step adjustments.
4		
5		6. Factor Calculation
6	Q.	How will the RDAF be calculated?
7	A.	The RDAF will be calculated on a dollar per therm basis for each rate class based
8		on the RDA allocated to each rate class divided by the projected class therm sales
9		for the RDM Adjustment Period (November through October). The RDAF will be
10		applied to customer bills during the RDM Adjustment Period.
11		
12		7. Adjustment Cap
13	Q.	Is the Company proposing any adjustment cap?
14	A.	Northern proposes to limit the RDA to two- and one-half percent (2.5%) of total
15		revenues from delivered sales for the most recent twelve-month period, August
16		through July, with revenue for externally supplied customers being adjusted by
17		imputing the Company's cost of gas charges for that period. To help mitigate
18		customer bill impacts, the cap would be applicable only to revenue shortfalls.
19		Under-recovered revenues in excess of the adjustment cap would be held in the

deferred account with carrying costs and included in the next RDAF filing.

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V. <u>ILLUSTRATIVE CALCULATION OF DECOUPLING MECHANISM</u>

Q. How will the Company implement the proposed RDM?

3 A. As explained above, the proposed RDM process consists of two steps:

In the first step, the Company calculates the monthly variances between actual and authorized RPC for each rate class. The variances are calculated monthly and then aggregated over the twelve-month period August through July (the Measurement Period). The monthly variances are recorded in a deferred account with carrying costs accrued at the Prime rate. The aggregate variances and carrying costs form the basis for the RDA and the calculation of RDAF (surcharge or credit). For example, if the Company experiences a revenue surplus (actual revenues are greater than authorized revenues) during the Measurement Period, the RDM will result in a credit or refund to customers. Conversely, if the Company experiences a revenue shortfall (actual revenues are less than authorized revenues) during the Measurement Period, the RDM will result in a surcharge for customers.

In the second step, the Company files with the Commission the applicable RDAF 45 days before the effective date of November 1. The filing will include an allocation of the RDA to each rate class, and calculation of the RDAF. The RDA is allocated to each rate classes based on the authorized revenues of each rate class in the most recent rate case, including step adjustments. The RDAF will be calculated as a dollar per therm charge or credit based on the RDA allocated to each rate class divided by the projected therm sales for each rate class over the RDM Adjustment

Period (twelve-month period November through October). The RDAF will be charged or credited to customer bills during the RDM Adjustment Period.

Q. Please illustrate the first step.

A. In the first step, the Company will calculate monthly variances between actual and authorized RPC for each rate class, as illustrated for the residential rate class in Figure 2 (below).

Figure 2: Monthly Residential Heating Revenue Variance Calculation (Illustrative)¹⁶

Illustrative Calculation		Actual	Residential Heating			Authoriz	ed Residential H	Variance Over / (Under)				
Variance Over / (Under)		Revenues	Customers	RPC		Revenues	Customers	RPC		RPC	Revenues	
August	s	1.081.951	27.217 S	39.75	s	1,076,569	26.815	\$ 40.15	s	(0.40) S	(10,766)	
September		1,283,256	27,217	47.15		1,276,871	26,815	47.62		(0.47)	(12,769)	
October		1,775,342	27,217	65.23		1,766,509	26,815	65.88		(0.65)	(17,665	
November		2,635,287	27,217	96.82		2,622,176	26,815	97.79		(0.96)	(26,222)	
December		3,694,761	27,217	135.75		3,676,379	26,815	137.10		(1.35)	(36,764)	
January		4,118,742	27,217	151.33		4,098,251	26,815	152.84		(1.51)	(40,983	
February		3,747,792	27,217	137.70		3,729,146	26,815	139.07		(1.37)	(37,291	
March		3,287,159	27,217	120.78		3,270,805	26,815	121.98		(1.20)	(32,708	
April		2,260,725	27,217	83.06		2,249,478	26,815	83.89		(0.83)	(22,495)	
May		1,663,286	27,217	61.11		1,655,011	26,815	61.72		(0.61)	(16,550)	
June		1,238,872	27,217	45.52		1,232,709	26,815	45.97		(0.45)	(12,327)	
July		1,054,859	27,217	38.76		1,049,611	26,815	39.14		(0.39)	(10,496	
12ME July	\$	27,842,031	326,604		\$	27,703,514	321,778			\$	(277,035)	

The Figure shows a four-phase process for each month assuming a 1.00 percent reduction in average revenue per customer for the residential sector. In the first phase, the Company calculates the authorized RPC per month by dividing the authorized monthly revenues by authorized monthly number of customers. In the second phase, the Company calculates the actual monthly RPC by dividing the actual revenues by the actual number of customers. In the third phase, the Company calculates the monthly variances between the actual and authorized RPC. In the

¹⁶ The illustrative calculation assumes a 1.00 percent reduction in revenue per customer each month

final phase, the Company calculates the monthly revenue variance by multiplying the RPC variance with the actual number of customers.

The monthly revenue variances will be recorded in a deferred account with carrying costs accrued through the year at Prime rate, as illustrated for the residential rate class in Figure 3 (below).

Figure 3: Deferred Account Balance (Illustrative)¹⁷

Illustrative	Deferred Account	Revenue	Carrying	Carrying	De	ferred Account
Deferred Account Balance	Starting Balance	Variance	Costs Rate	Costs		Ending Balance
August	\$ -	\$ (10,766)	0.27%	\$ (15)	\$	(10,780)
September	(10,780)	\$ (12,769)	0.27%	(46)	\$	(23,595)
October	(23,595)	\$ (17,665)	0.27%	(88)	\$	(41,348)
November	(41,348)	\$ (26,222)	0.27%	(147)	\$	(67,718)
December	(67,718)	\$ (36,764)	0.27%	(233)	\$	(104,715)
January	(104,715)	\$ (40,983)	0.27%	(339)	\$	(146,036)
February	(146,036)	\$ (37,291)	0.27%	(446)	\$	(183,774)
March	(183,774)	\$ (32,708)	0.27%	(542)	\$	(217,024)
April	(217,024)	\$ (22,495)	0.27%	(618)	\$	(240,137)
May	(240,137)	\$ (16,550)	0.27%	(673)	\$	(257,360)
June	(257,360)	\$ (12,327)	0.27%	(714)	\$	(270,400)
July	(270,400)	\$ (10,496)	0.27%	(747)	\$	(281,643)
August	(281,643)		0.27%	(763)	\$	(282,406)
September	(282,406)		0.27%	(765)	\$	(283,171)
October	(283,171)		0.27%	(767)	\$	(283,938)
Total		\$ (277,035)		\$ (6,903)	\$	(283,938)

The Figure shows that carrying costs of \$6,903 will be accumulated through the year at the assumed Prime Rate. The aggregate monthly variances and carrying costs form the basis for the RDA and the calculation of RDAF surcharge or credit depending on the revenue variances. ¹⁸

Q. Please discuss the second step in calculating the RDM adjustment.

¹⁷ The illustrative calculation assumes a Prime Rate of 3.25 percent, or 0.2708 percent monthly ¹⁸ The illustrative calculation shows RDA based on 12 months' ending July balance. However, the Company's proposed RDA filed will also include estimated carrying costs through October 31.

1 A. In the second step, the Company will file the applicable RDAF based on the RDA
2 for the Measurement Period. The filing will include allocation of the RDA to rate
3 classes, and calculation of the RDAF.

The RDA will be allocated to each rate class based on each class's authorized revenues, including step adjustments, as shown in Figure 4 (below).

Figure 4: Decoupling Adjustment Allocation (Illustrative)¹⁹

Illustrative Revenue Decoupling Adjustment	Authorized evenues (\$)	Authorized Revenues (%)	Allo	cated RDA (\$)
Residential Non-Heating (R-6)	\$ 737,886	1.45%	\$	(4,112)
Residential Heating (R-5/R-10)	27,702,514	54.37%		(154,385)
C&I Low Annual, High Winter (G-40)	8,274,293	16.24%		(46,112)
C&I Low Annual, Low Winter (G-50)	1,201,344	2.36%		(6,695)
C&I Medium Annual, High Winter (G-41)	6,421,989	12.60%		(35,790)
C&I Medium Annual, Low Winter (G-51)	1,638,520	3.22%		(9,131)
C&I High Annual, High Winter (G-42)	1,895,204	3.72%		(10,562)
C&I High Annual, Low Winter (G-52)	3,077,325	6.04%		(17,150)
Total	\$ 50,949,076	100.00%	\$	(283,938)

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The Figure shows that the Residential Heating class revenues are 54.37 percent of total Company revenues. Accordingly, the deferred account balance allocated to the Residential Heating class is \$154,385.

The allocated RDA forms the basis for the calculation of RDAF for each rate class, as shown in Figure 5 (below).

¹⁹ The RDA will be allocated to each rate class based on each class's authorized revenues. For illustrative purpose, Figure 4 currently shows the Company's proposed revenues plus 2022 step increase in the 'Authorized Revenues (\$)' column. The illustrative deferred account balance assumes that only the Residential class experienced a revenue change.

Figure 5: Calculation of RDAF (Illustrative)

Illustrative Revenue Decoupling Adjustment	Char	ge/ (Refund) (\$)	Adjusted Test Year Sales	ge/ (Refund) S/therm)
Residential Non-Heating (R-6)	\$	4,112	237,269	\$ 0.0173
Residential Heating (R-5/R-10)		154,385	20,067,257	0.0077
C&I Low Annual, High Winter (G-40)		46,112	10,880,833	0.0042
C&I Low Annual, Low Winter (G-50)		6,695	1,474,573	0.0045
C&I Medium Annual, High Winter (G-41)		35,790	14,423,832	0.0025
C&I Medium Annual, Low Winter (G-51)		9,131	4,761,300	0.0019
C&I High Annual, High Winter (G-42)		10,562	5,889,772	0.0018
C&I High Annual, Low Winter (G-52)		17,150	16,417,274	0.0010
Total	\$	283,938	74,152,109	

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The Figure shows that the RDAF for the Residential Heating class will be

4 \$0.0077 per therm. The adjustment factor would be implemented on customer

bills during the November through October RDM Adjustment Period.

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7 Q. Please describe how the RDAF will appear on customer bills.

8 A. For billing purposes, the Company plans to add the RDAF to the Distribution
9 Charge component.

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Q. Is the proposed RDM subject to reconciliation?

A. Yes. As described in Section 7.0 of the proposed tariff, the RDM is subject to reconciliation. Specifically, the actual revenues received by the Company through application of the RDAF to customer bills is reconciled to the RDM adjustment amount.

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Q. Does this conclude your direct testimony?

1 A. Yes, it does.

_				APPROVED	RPC'S					ACTUALS									
	R	esidential			Commercial and	ndustrial					Residentia	ıl		Com	mercial and Indu	strial			
_	R6	R5-R10	G40	G50	G41	G51	G42	G52		Re	6	R5-R10	G40	G50	G41	G51	G42	G52	
st 2022	1,27		5,234	831	704	267	31	33	August 2022		1,320	27,563	4,906	837	671	267	30	34	
ember 2022	1,27	7 26,815	5,234	831	704	267	31	33	September 2022		1,335	27,516	5,047	856	673	270	30	34	
ber 2022	1,27	7 26,815	5,234	831	704	267	31	33	October 2022		1,325	27,600	5,089	836	691	278	30	34	
ember 2022	1,27	7 26,815	5,234	831	704	267	31	33	November 2022		1,278	27,755	5,224	822	690	279	30	34	
ember 2022	1,27	7 26,815	5,234	831	704	267	31	33	December 2022		1,251	27,903	5,285	817	690	280	30	33	
ary 2023	1,27	7 26,815	5,234	831	704	267	31	33	January 2023		1,227	28,030	5,337	809	695	278	29	36	
uary 2023	1,27	7 26,815	5,234	831	704	267	31	33	February 2023		1,245	28,033	5,341	805	698	277	29	36	
h 2023	1,27	7 26,815	5,234	831	704	267	31	33	March 2023		1,196	28,138	5,356	811	701	278	29	36	
2023	1,27	7 26,815	5,234	831	704	267	31	33	April 2023		1,202	28,091	5,358	811	702	278	29	36	
2023	1,27	7 26,815	5,234	831	704	267	31	33	May 2023		1,227	28,154	5,197	819	699	278	29	37	
2023	1,27	7 26,815	5,234	831	704	267	31	33	June 2023		1,241	27,971	5,207	834	702	279	29	37	
2023	1,27	7 26,815	5,234	831	704	267	31	33	July 2023		1,257	27,997	5,167	839	693	279	29	37	
									Average Customers		1,259	27,896	5,210	825	692	277	29	35	
									Change from Approved		(18)	1,081	(25)	(7)	(12)	10	(2)	2	
ıst 2022	\$ 34.0	5 \$ 32.44 \$	84.08 \$	108.68 \$	318.36 \$	411.52 \$	2,641.02 \$	5,431.42	August 2022 \$		34.05 \$	32.44 \$	84.08 \$	108.68 \$	318.36 \$	411.52 \$	2,641.02 \$	5,431.42	
ember 2022	36.2	7 40.58	91.05	111.56	386.39	428.43	2,986.26	6,054.77	September 2022		36.27	40.58	91.05	111.56	386.39	428.43	2,986.26	6,054.77	
ber 2022	39.6	1 59.28	106.81	111.54	564.56	456.07	4,054.95	6,194.65	October 2022		39.61	59.28	106.81	111.54	564.56	456.07	4,054.95	6,194.65	
mber 2022	46.2	91.96	134.15	115.99	841.30	504.61	5,427.24	8,962.53	November 2022		46.26	91.96	134.15	115.99	841.30	504.61	5,427.24	8,962.53	
ember 2022	55.2	3 132.22	168.98	124.42	1,159.60	569.52	6,897.34	9,851.53	December 2022		55.23	132.22	168.98	124.42	1,159.60	569.52	6,897.34	9,851.53	
ary 2023	57.9	1 148.33	182.83	127.04	1,278.48	589.36	7,801.39	8,604.40	January 2023		57.91	148.33	182.83	127.04	1,278.48	589.36	7,801.39	8,604.40	
uary 2023	53.3	3 134.23	170.49	123.47	1,160.86	561.25	7,127.11	9,535.37	February 2023		53.38	134.23	170.49	123.47	1,160.86	561.25	7,127.11	9,535.37	
h 2023	49.9	7 116.73	154.74	118.57	1,012.75	543.47	6,529.00	8,839.80	March 2023		49.97	116.73	154.74	118.57	1,012.75	543.47	6,529.00	8,839.80	
2023	42.9	5 77.73	121.80	106.59	684.19	470.36	4,981.99	8,791.23	April 2023		42.95	77.73	121.80	106.59	684.19	470.36	4,981.99	8,791.23	
2023	40.0	55.02	102.87	107.52	506.97	458.98	3,636.48	5,557.01	May 2023		40.08	55.02	102.87	107.52	506.97	458.98	3,636.48	5,557.01	
2023	36.3	2 38.90	89.45	108.83	372.73	433.83	2,887.68	5,483.51	June 2023		36.32	38.90	89.45	108.83	372.73	433.83	2,887.68	5,483.51	
2023	34.6	5 31.90	83.65	110.39	314.49	422.00	2,685.58	5,403.99	July 2023		34.65	31.90	83.65	110.39	314.49	422.00	2,685.58	5,403.99	
Annual RPC	\$ 526.6	3 \$ 959.32	1,490.90 \$	1,374.60 \$	8,600.68 \$	5,849.41 \$	57,656.03 \$	88,710.22	Total Annual RPC \$		526.68 \$	959.32 \$	1,490.90 \$	1,374.60 \$	8,600.68 \$	5,849.41 \$	57,656.03 \$	88,710.22	
ıst 2022	\$ 43,46	9 \$ 869,904 \$	440,087 \$	90,360 \$	224,198 \$	109,671 \$	81,872 \$	179,237	August 2022 \$		44,944 \$	894,177 \$	412,481 \$	90,961 \$	213,617 \$	109,877 \$	79,231 \$	184,668	
ember 2022	46,30	3 1,088,212	476,581	92,761	272,107	114,176	92,574	199,807	September 2022		48,417	1,116,669	459,524	95,498	260,039	115,676	89,588	205,862	
ber 2022	50,57		559,090	92,744	397,580	121,543	125,703	204,424	October 2022		52,486	1,636,165	543,566	93,250	390,109	126,788	121,648	210,618	
ember 2022	59,06	3 2,465,848	702,206	96,439	592,474	134,480	168,244	295,764	November 2022		59,123	2,552,307	700,820	95,341	580,499	140,787	162,817	304,726	
ember 2022	70,51	2 3,545,385	884,496	103,454	816,630	151,778	213,818	325,101	December 2022		69,093	3,689,265	893,058	101,654	800,125	159,467	206,920	325,101	
ary 2023	73,94	3,977,396	956,985	105,625	900,348	157,065	241,843	283,945	January 2023		71,061	4,157,646	975,755	102,771	888,543	163,842	226,240	309,758	
uary 2023	68,15	1 3,599,421	892,398	102,664	817,515	149,574	220,941	314,667	February 2023		66,459	3,762,944	910,583	99,396	810,279	155,467	206,686	343,273	
h 2023	63,79	7 3,130,064	809,936	98,583	713,215	144,835	202,399	291,713	March 2023		59,765	3,284,521	828,762	96,157	709,941	151,085	189,341	318,233	
2023	54,83	3 2,084,192	637,525	88,627	481,829	125,352	154,442	290,111	April 2023		51,625	2,183,386	652,587	86,445	480,301	130,761	144,478	316,484	
2023	51,16	1,475,440	538,468	89,401	357,024	122,317	112,731	183,381	May 2023		49,174	1,549,127	534,628	88,060	354,371	127,595	105,458	205,609	
2023	46,37	1,042,988	468,212	90,489	262,492	115,614	89,518	180,956	June 2023		45,079	1,087,960	465,767	90,764	261,660	121,037	83,743	202,890	
2023	44,23	855,490	437,868	91,788	221,474	112,462	83,253	178,332	July 2023		43,550	893,206	432,236	92,620	217,942	117,737	77,882	199,948	
Revenue	\$ 672,41	6 \$ 25,723,957	7,803,851 \$	1,142,936 \$	6,056,886 \$	1,558,867 \$	1,787,337 \$	2,927,437 \$ 47,673,687	Total Revenue \$	-	660 776 S	26,807,374 \$	7,809,766 \$	1,132,918 \$	5,967,425 \$	1,620,119 \$	1,694,032 \$	3,127,171	

DOE Position: Approved Actual Revenue

Difference

\$ 47,673,687 44,506,322 \$ (3,167,365) Allowed Revenue Actual Revenue Decoupling Adj (Under)/Over

New Customer Growth (Decay) \$ (11,640) \$ 1,083,417 \$ 5,915 \$ (10,018) \$ (89,461) \$ 61,252 \$ (93,305) \$ 199,734 \$ 1,145,894

\$ 48,819,581 CC * RPC

\$ 44,506,322 \$ (4,313,259)

Disallow Difference \$ (1,145,894) Change in Revenue Associated with Customer Growth