EXHIBIT
#9
DG 19-145

compares to the FPO rate approved for the 2018/2019 winter period of $0.7611 per therm for residential customers. This represents a $0.1208 per therm, or 15.8% decrease in the residential FPO rate. The total bill impact on the winter period bills for an average FPO heating customer using 666 therms is a decrease of approximately $98.27 or 9.75% compared to last winter. The total bill impact reflects the overall rates in effect following implementation of the increases approved in Docket No. DG 19-054, effective July 1, 2019, relating to the cast iron/bare steel main replacement program. The estimated winter period bill for an average residential heating customer opting for the FPO would be approximately $13.32 (or 1.45%) higher than the bill under the proposed cost of gas rates, assuming no monthly adjustments to the COG rate during the course of the winter. Schedule 23 (Bates 196) contains the historical results of the FPO program.

V. LOCAL DELIVERY ADJUSTMENT CLAUSE ("LDAC")

Q. What are the surcharges that will be billed under the LDAC?

A. As shown on Proposed Second Revised Page 97 (Bates 054), the Company is submitting for approval an LDAC of $0.0310 per therm for the residential non-heating class and residential heating class, and $0.0478 per therm for the commercial/industrial bundled sales classes, effective November 1, 2019. The surcharges proposed to be billed under the LDAC are the Energy Efficiency Charge, the Revenue Decoupling Adjustment Factor, the Energy Efficiency Resource Standard Lost Revenue Adjustment Mechanism, the Environmental Surcharge for Manufactured Gas Plant ("MGP") remediation, the Residential Low Income Assistance Program charge, and the rate case expense reconciliation surcharge from Docket No. DG 17-048.

Q. Which customers are billed an LDAC?

A. All EnergyNorth customers including those in Keene are billed an LDAC charge. When calculating the LDAC charge, the November 1, 2019, through October 31, 2020, forecasted Keene therm sales of 1,542,677 are added to the EnergyNorth therm sales forecast of 185,636,009 for a total therm sales forecast of 187,178,686 (slightly off due to rounding).

Q. Please explain the Energy Efficiency Charge.

A. The Energy Efficiency Charge is designed to recover the projected expenses associated with the Company's energy efficiency programs for Calendar Year 2019 that will be filed with the Commission in the near future. In the calculation of the Energy Efficiency Charge, the Company has also included the projected prior period under-recovery of the Company's residential and commercial energy efficiency programs as of October 2019. As shown on Schedule 19 Energy Efficiency (Bates 132-134), the proposed Energy Efficiency charge is $0.0640 per therm for Residential customers and $0.0426 per therm for commercial and industrial customers.

Q. Please explain the Revenue Decoupling Adjustment Factor ("RDAF").

A. Schedule 19 RDAF (Bates 124-R–129-R) shows the Actual Base Revenue per Customer and the Benchmark Base Revenue per Customer calculation which results in a total over-collection of $7,016,791 effective November 1, 2019, through October 31, 2020, based on the formulas in the Company's proposed tariff. The Actual Base Revenue per

Customer proposed tariff change includes weather-normalized actuals as discussed with Commission Staff at the technical session held on September 23, 2019.

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therm is determined by dividing the $309,225 by the estimated November 2019 through October 2020 sales volumes of 187,178,686 therms.

Q. Has the Company also updated its Company Allowance percentage for the period November 2019 through October 2020 in accordance with Section 8 of the Company's Delivery Terms and Condition?

A. Yes, in Schedule 25 (Bates 198) the Company has recalculated its Company Allowance for the period November 2019 through October 2020. The Company calculated the Company Allowance of 1.92% based on sendout and throughput data for the twelve-month period ending June 2019. The Company proposes to apply this recalculated Company Allowance to all supplier deliveries beginning in November 2019.

VI. CUSTOMER BILL IMPACTS

Q. What are the estimated impacts of the proposed firm sales cost of gas rate and proposed LDAC surcharges on an average heating customer's winter bill as compared to the winter rates in effect last year?

A. The bill impact analysis is presented in Schedule 8 (Bates 092-R) of this filing. These bill impacts reflect the implementation of the increases approved in Docket No. DG 19-054 effective July 1, 2019, relating to the cast iron/bare steel main replacement program. The total bill impact over the winter period for an average residential heating customer is a decrease of approximately $46.46 or 4.93%. The total bill impact over the winter period for an average commercial/industrial G-41 customer is a decrease of approximately $132.18, or 5.35% (Bates 093-R). Schedule 8 of this filing provides more detail of the impact of the proposed rate adjustments on heating customers.

VII. OTHER TARIFF CHANGES

Q. Is the Company updating its Delivery Terms and Conditions in the filing?

A. Yes. The Company is submitting Proposed Second Revised Page 147 (Bates 055) relating to Supplier Balancing and Peaking Demand Charges and Proposed Second Revised Page 148 (Bates 056) relating to Capacity Allocation.

Q. Please describe the changes to tariff Page 147.

A. In Proposed Second Revised Page 147, the Company is updating the Peaking Demand Charge from $20.41 per MMBtu of Peak MDQ to $18.12 per MMBtu of Peak MDQ. This calculation is also presented in Schedule 21 (Bates 187).

Q. Please describe the changes to tariff Page 148.

A. Proposed Second Revised Page 148 updates the Capacity Allocator percentages used to allocate pipeline, storage, and local peaking capacity to high and low load factor customers under the mandatory capacity assignment requirement for firm transportation service. Schedule 22 (Bates 190–195) contains the six-page worksheet that backs up the calculations for the updated allocators.

II RATE SCHEDULES
FIRM RATE SCHEDULES

	~~Rates effective April 1, 2019 - April 30, 2020~~ Rates effective November 1, 2019 - April 30, 2020 Winter Period				~~Rates Effective September 1, 2018 - October 31, 2018~~ Rates Effective July 1, 2019 - October 31, 2019 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-1	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
All Therms	$ 0.3786	$ 0.6203	$ 0.0310	$ 1.0299	$ 0.3786	$ 0.5556	$ 0.0660	$ 1.0002
	~~$ 0.3741~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.0226~~	~~$ 0.3938~~	~~$ 0.3916~~	~~$ 0.0946~~	~~$ 0.8799~~
Residential Heating - R-3	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
Size of the first block	all therms				all therms			
All Therms	$ 0.5569	$ 0.6203	$ 0.0310	$ 1.2082	$ 0.5569	$ 0.5556	$ 0.0660	$ 1.1785
	~~$ 0.5502~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1987~~	~~$ 0.5631~~	~~$ 0.3916~~	~~$ 0.0946~~	~~$ 1.0492~~
Residential Heating - R-4	~~$ 6.01~~			~~$ 6.01~~	~~$ 6.00~~			~~$ 6.00~~
Customer Charge per Month per Meter	$ 6.08			$ 6.08	$ 6.08			$ 6.08
Size of the first block	all therms				all therms			
All Therms	$ 0.2228	$ 0.6203	$ 0.0310	$ 0.8740	$ 0.2228	$ 0.5556	$ 0.0660	$ 0.8444
	~~$ 0.2201~~	~~$ (0.5825)~~	~~$ 0.0660~~	~~$ (0.2964)~~	~~$ 0.2252~~	~~$ 0.3916~~	~~$ 0.0946~~	~~$ 0.7113~~
Commercial/Industrial - G-41	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.4621	$ 0.6190	$ 0.0478	$ 1.1290	$ 0.4621	$ 0.5521	$ 0.0757	$ 1.0899
	~~$ 0.4566~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1140~~	~~$ 0.4639~~	~~$ 0.3856~~	~~$ 0.0763~~	~~$ 0.9257~~
All therms over the first block per month at	$ 0.3104	$ 0.6190	$ 0.0478	$ 0.9773	$ 0.3104	$ 0.5521	$ 0.0757	$ 0.9382
	~~$ 0.3067~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9641~~	~~$ 0.3116~~	~~$ 0.3856~~	~~$ 0.0763~~	~~$ 0.7734~~
Commercial/Industrial - G-42	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.4202	$ 0.6190	$ 0.0478	$ 1.0871	$ 0.4202	$ 0.5521	$ 0.0757	$ 1.0480
	~~$ 0.4152~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0726~~	~~$ 0.4210~~	~~$ 0.3856~~	~~$ 0.0763~~	~~$ 0.8837~~
All therms over the first block per month at	$ 0.2800	$ 0.6190	$ 0.0478	$ 0.9468	$ 0.2800	$ 0.5521	$ 0.0757	$ 0.9078
	~~$ 0.2766~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9340~~	~~$ 0.2811~~	~~$ 0.3856~~	~~$ 0.0763~~	~~$ 0.7429~~
Commercial/Industrial - G-43	~~$ 716.95~~			~~$ 716.95~~	~~$ 728.47~~			~~$ 728.47~~
Customer Charge per Month per Meter	$ 725.66			$ 725.66	$ 725.66			$ 725.66
All therms over the first block per month at	$ 0.2583	$ 0.6190	$ 0.0478	$ 0.9251	$ 0.1181	$ 0.5521	$ 0.0757	$ 0.7459
	~~$ 0.2552~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9126~~	~~$ 0.1185~~	~~$ 0.3856~~	~~$ 0.0763~~	~~$ 0.5803~~
Commercial/Industrial - G-51	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.2785	$ 0.6258	$ 0.0478	$ 0.9522	$ 0.2785	$ 0.5633	$ 0.0757	$ 0.9175
	~~$ 0.2752~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9379~~	~~$ 0.2796~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7683~~
All therms over the first block per month at	$ 0.1811	$ 0.6258	$ 0.0478	$ 0.8547	$ 0.1811	$ 0.5633	$ 0.0757	$ 0.8201
	~~$ 0.1789~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8416~~	~~$ 0.1817~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6704~~
Commercial/Industrial - G-52	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.2392	$ 0.6258	$ 0.0478	$ 0.9128	$ 0.1733	$ 0.5633	$ 0.0757	$ 0.8123
	~~$ 0.2363~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8990~~	~~$ 0.1740~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6627~~
All therms over the first block per month at	$ 0.1593	$ 0.6258	$ 0.0478	$ 0.8329	$ 0.0985	$ 0.5633	$ 0.0757	$ 0.7375
	~~$ 0.1574~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8201~~	~~$ 0.0989~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5876~~
Commercial/Industrial - G-53	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.1672	$ 0.6258	$ 0.0478	$ 0.8408	$ 0.0802	$ 0.5633	$ 0.0757	$ 0.7192
	~~$ 0.1652~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8279~~	~~$ 0.0805~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5692~~
Commercial/Industrial - G-54	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.0638	$ 0.6258	$ 0.0478	$ 0.7374	$ 0.0346	$ 0.5633	$ 0.0757	$ 0.6736
	~~$ 0.0630~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7257~~	~~$ 0.0347~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5234~~

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II RATE SCHEDULES
FIRM RATE SCHEDULES

	~~Rates effective April 1, 2019 - April 30, 2020~~ Rates effective November 1, 2019 - April 30, 2020 Winter Period				~~Rates Effective Splember 1, 2018 - October 31, 2018~~ Rates Effective July 1, 2019 - October 31, 2019 Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-5	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
All Therms	$ 0.4922	$ 0.6203	$ 0.0310	$ 1.1435	$ 0.4922	$ 0.5556	$ 0.0660	$ 1.1138
	~~$ 0.4863~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1348~~	~~$ 0.5110~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.9980~~
Residential Heating - R-6	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
Size of the first block	100 therms							
Therms in the first block per month at	$ 0.7240	$ 0.6203	$ 0.0310	$ 1.3752	$ 0.7240	$ 0.5556	$ 0.0660	$ 1.3456
	~~$ 0.7153~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.3638~~	~~$ 0.7320~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 1.2181~~
Residential Heating - R-7	~~$ 7.81~~			~~$ 7.81~~	~~$ 7.81~~			~~$ 7.81~~
Customer Charge per Month per Meter	$ 7.90			$ 7.90	$ 7.90			$ 7.90
Size of the first block	100 therms							
Therms in the first block per month at	$ 0.2896	$ 0.6203	$ 0.0310	$ 0.9409	$ 0.2896	$ 0.5556	$ 0.0660	$ 0.9112
	~~$ 0.2861~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 0.9346~~	~~$ 0.2928~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.7789~~
Commercial/Industrial - G-44	~~$ 72.38~~			~~$ 72.38~~	~~$ 73.56~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.6008	$ 0.6190	$ 0.0478	$ 1.2676	$ 0.6008	$ 0.5521	$ 0.0757	$ 1.2286
	~~$ 0.5936~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.2510~~	~~$ 0.6031~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0649~~
All therms over the first block per month at	$ 0.4036	$ 0.6190	$ 0.0478	$ 1.0704	$ 0.4035	$ 0.5521	$ 0.0757	$ 1.0313
	~~$ 0.3987~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0561~~	~~$ 0.4051~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8669~~
Commercial/Industrial - G-45	$ 217.18			~~$ 217.18~~	~~$ 220.68~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.5463	$ 0.6190	$ 0.0478	$ 1.2131	$ 0.5463	$ 0.5521	$ 0.0757	$ 1.1741
	~~$ 0.5398~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1972~~	~~$ 0.5486~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0103~~
All therms over the first block per month at	$ 0.3639	$ 0.6190	$ 0.0478	$ 1.0308	$ 0.3639	$ 0.5521	$ 0.0757	$ 0.9917
	~~$ 0.3596~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0170~~	~~$ 0.3654~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8272~~
Commercial/Industrial - G-46	~~$ 932.04~~			~~$ 932.04~~	~~$ 947.01~~			~~$ 947.01~~
Customer Charge per Month per Meter	$ 943.36			$ 943.36	$ 943.36			$ 943.36
All therms over the first block per month at	$ 0.3358	$ 0.6190	$ 0.0478	$ 1.0026	$ 0.1535	$ 0.5521	$ 0.0757	$ 0.7813
	~~$ 0.3318~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9892~~	~~$ 0.1540~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.6158~~
Commercial/Industrial - G-55	~~$ 72.3800~~			~~$ 72.38~~	~~$ 73.5600~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.3821	$ 0.6258	$ 0.0478	$ 1.0357	$ 0.3821	$ 0.5633	$ 0.0757	$ 1.0011
	~~$ 0.3578~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 1.0205~~	~~$ 0.3835~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.8522~~
All therms over the first block per month at	$ 0.2354	$ 0.6258	$ 0.0478	$ 0.9090	$ 0.2354	$ 0.5633	$ 0.0757	$ 0.8744
	~~$ 0.2326~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8953~~	~~$ 0.2363~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7250~~
Commercial/Industrial - G-56	~~$ 217.1800~~			~~$ 217.18~~	~~$ 220.6800~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.3109	$ 0.6258	$ 0.0478	$ 0.9846	$ 0.2253	$ 0.5633	$ 0.0757	$ 0.8643
	~~$ 0.3072~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9699~~	~~$ 0.2262~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7149~~
All therms over the first block per month at	$ 0.2071	$ 0.6258	$ 0.0478	$ 0.8807	$ 0.1280	$ 0.5633	$ 0.0757	$ 0.7670
	~~$ 0.2046~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8673~~	~~$ 0.1286~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6173~~
Commercial/Industrial - G-57	~~$ 959.1900~~			~~$ 959.19~~	~~$ 974.5900~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.84			$ 970.84	$ 970.84			$ 970.84
All therms over the first block per month at	$ 0.2174	$ 0.6258	$ 0.0478	$ 0.8910	$ 0.1043	$ 0.5633	$ 0.0757	$ 0.7433
	~~$ 0.2148~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8775~~	~~$ 0.1047~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5934~~
Commercial/Industrial - G-58	~~$ 959.1900~~			~~$ 959.19~~	~~$ 974.5900~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.85			$ 970.85	$ 970.84			$ 970.84
All therms over the first block per month at	$ 0.0829	$ 0.6258	$ 0.0478	$ 0.7565	$ 0.0450	$ 0.5633	$ 0.0757	$ 0.6840
	~~$ 0.0819~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7446~~	~~$ 0.0448~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5335~~

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NHPUC NO. 10 - GAS
LIBERTY UTILITIES

Revised Proposed Second Revised Page 97
Superseding First Revised Page 97

Local Delivery Adjustment Clause Calculation

Residential Non Heating Rates - R-1				Sales Customers		Transportation Customers
Energy Efficiency Charge	~~$ 0.0450~~		$ 0.0640			
Demand Side Management Charge	~~0.0000~~		0.0000			
Conservation Charge (CCx)		~~$ 0.0450~~		$ 0.0640		
Relief Holder and pond at Gas Street, Concord, NH	~~0.0000~~		0.0000			
Manufactured Gas Plants	~~0.0161~~		0.0153			
Environmental Surcharge (ES)		~~$ 0.0161~~		$ 0.0153		
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0623)		
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0003~~		0.0001		
Rate Case Expense Factor (RCEF)		~~0.0002~~		0.0017		
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123		
LDAC		~~$ 0.0836~~		$ 0.0310		per therm

Residential Heating Rates - R-3, R-4, R-6, R-7						
Energy Efficiency Charge	~~$ 0.0450~~		$ 0.0640			
Demand Side Management Charge	~~0.0000~~		0.0000			
Conservation Charge (CCx)		$ 0.0450		$ 0.0640		
Relief Holder and pond at Gas Street, Concord, NH	~~0.0000~~		0.0000			
Manufactured Gas Plants	~~0.0161~~		0.0153			
Environmental Surcharge (ES)		~~0.0161~~		0.0153		
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0623)		
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0003~~		0.0001		
Rate Case Expense Factor (RCEF)		~~0.0002~~		0.0017		
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123		
LDAC		~~$ 0.0836~~		$ 0.0310		per therm

Commercial/Industrial Low Annual Use Rates - G-41, G-51, G-44, G-55						
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426			
Demand Side Management Charge	~~—~~		-			
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426
Relief Holder and pond at Gas Street, Concord, NH	~~—~~		-			
Manufactured Gas Plants	~~0.0161~~		0.0153			
Environmental Surcharge (ES)		$ 0.0161		$ 0.0153	~~$ 0.0161~~	$ 0.0153
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0241)	~~0.0000~~	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001
Rate Case Expense Factor (RCEF)		~~0.0002~~		0.0017	~~0.0002~~	0.0017
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123
LDAC		~~$0.0772~~		$0.0478	~~$0.0772~~	$0.0478 per therm

Commercial/Industrial Medium Annual Use Rates - G-42, G-52, G-45, G-56						
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426			
Demand Side Management Charge	~~—~~		-			
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426
Relief Holder and pond at Gas Street, Concord, NH	~~—~~		-			
Manufactured Gas Plants	~~0.0161~~		0.0153			
Environmental Surcharge (ES)		$ 0.0161		$ 0.0153	~~$ 0.0161~~	$ 0.0153
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0241)	~~0.0000~~	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001
Rate Case Expense Factor (RCEF)		~~0.0002~~		0.0017	~~0.0002~~	0.0017
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123
LDAC		~~$ 0.0772~~		$ 0.0478	$ 0.0772	$ 0.0478 per therm

Commercial/Industrial Large Annual Use Rates - G-43, G-53, G-54, G-46, G-56, G-57, G-58						
Energy Efficiency Charge	~~$ 0.0387~~		$ 0.0426			
Demand Side Management Charge	~~—~~		-			
Conservation Charge (CCx)		$ 0.0387		$ 0.0426	~~$ 0.0387~~	$ 0.0426
Relief Holder and pond at Gas Street, Concord, NH	~~—~~		-			
Manufactured Gas Plants	~~0.0161~~		0.0153			
Environmental Surcharge (ES)		$0.0161		0.0153	~~0.0161~~	0.0153
Revenue Decoupling Adjustment Factor (RDAF)		~~0.0000~~		(0.0241)	~~0.0000~~	(0.0241)
Energy Efficiency Resource Standard Lost Revenue Mechanism		~~0.0001~~		0.0001	~~0.0001~~	0.0001
Rate Case Expense Factor (RCEF)		~~0.0002~~		0.0017	~~0.0002~~	0.0017
Residential Low Income Assistance Program (RLIAP)		~~0.0130~~		0.0123	~~0.0130~~	0.0123
LDAC		$0.0772		$0.0478	$0.0772	$0.0478 per therm

Issued: ~~October xx, 2018~~ October xx, 2019

Effective: ~~November 1, 2018~~ November 1, 2019

Issued by: ______________________
Susan L. Fleck

Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2019 in Docket DG 19-xxx.
~~Issued in compliance with NHPUC Order No. 26,188 dated November 01, 2018 in Docket DG 18-137~~

ATTACHMENT B
Schedule of Administrative Fees and Charges

I.	Supplier Balancing Charge	~~$ 0.19~~	0.21	decimal places shown
II.	Capacity Mitigation Fee	~~15%~~	15% of the Proceeds from the Marketing of Capacity for Mitigation	
III.	Peaking Demand Charge	~~$ 20.41~~	$ 18.12	
IV.	Company Allowance Calculation (per Schedule 25)			
		~~173,718,990~~	181,100,282	Total Sendout - Therms Jul-2018 - Jun-2019 ~~Total Sendout - Therms Jul-2017 - Jun-2018~~
		~~170,585,367~~	177,619,709	Total Throughput - Therms Jul-2018 - Jun-2019 ~~Total Throughput - Therms Jul-2017 - Jun-2018~~
		~~3,133,623~~	3,480,573	Variance (Sendout - Throughput)
Company Allowance Percentage	2019-20 ~~2018-19~~	~~1.8%~~	1.9%	Variance / Total Sendout

Liberty Utilities (EnergyNorth Natural Gas) Corp.
1 d/b/a Liberty Utilities
2 Peak 2019 - 2020 Winter Cost of Gas Filing
3 Annual Bill Comparisons, Nov 18 - Apr 19 vs Nov 19 - Apr 20 - Residential Heating Rate R-3
4
5

6 November 1, 2019 - April 30, 2020
7 Residential Heating (R3)

8	PROPOSED									Winter
9				Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Nov-Apr
10	average Usage (Therms)			62	110	123	148	132	92	666
11		5/1/2019	11/1/2019							
12	Winter:									
13	Cust. Chg	$ 15.02	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 91.20
14	Headblock	$ 0.5502	$ 0.5569	$ -	$ -	$ -	$ -	$ -	$ -	$ -
15	Tailblock	$ 0.5502	$ 0.5569	$ 34.35	$ 61.12	$ 68.38	$ 82.21	$ 73.78	$ 51.15	$ 370.99
16	HB Threshold	-	-							
17										
18	Summer:									
19	Cust. Chg	$ 15.02	$ 15.20							
20	Headblock	$ 0.5502	$ 0.5569							
21	Tailblock	$ 0.5502	$ 0.5569							
22	HB Threshold	-	-							
23										
24	Total Base Rate Amount			$ 49.55	$ 76.32	$ 83.58	$ 97.41	$ 88.98	$ 66.35	$ 462.19
25										
26	COG Rate - (Seasonal)			$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203
27	COG amount			$ 38.26	$ 68.07	$ 76.17	$ 91.57	$ 82.17	$ 56.98	$ 413.23
28										
29	LDAC			$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310
30	LDAC amount			$ 1.91	$ 3.40	$ 3.80	$ 4.57	$ 4.10	$ 2.84	$ 20.63
31										
32	Total Bill			$ 89.73	$ 147.79	$ 163.55	$ 193.55	$ 175.25	$ 126.18	$ 896.05

33
34 November 1, 2018 - April 30, 2019
35 Residential Heating (R3)

36	CURRENT									Winter
37				Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Nov-Apr
38	average Usage (Therms)			62	110	123	148	132	92	666
39										
40	Winter:	5/1/2018	11/1/2018							
41	Cust. Chg	$ 24.43	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 90.12
42	Headblock	$ 0.3863	$ 0.5502	$ -	$ -	$ -	$ -	$ -	$ -	$ -
43	Tailblock	$ 0.3197	$ 0.5502	$ 33.94	$ 60.38	$ 67.56	$ 81.22	$ 72.89	$ 50.54	$ 366.53
44	HB Threshold	100	-							
45										
46	Summer:									
47	Cust. Chg	$ 14.88	$ 15.02							
48	Headblock	$ 0.5580	$ 0.5631							
49	Tailblock	$ 0.5580	$ 0.5631							
50	HB Threshold	-	-							
51										
52	Total Base Rate Amount			$ 48.96	$ 75.40	$ 82.58	$ 96.24	$ 87.91	$ 65.56	$ 456.65
53										
54	COG Rate - (Seasonal)			$ 0.7411	$ 0.7504	$ 0.7504	$ 0.6715	$ 0.5212	$ 0.5825	$ 0.6633
55	COG amount			$ 45.72	$ 82.35	$ 92.14	$ 99.13	$ 69.05	$ 53.51	$ 441.89
56										
57	LDAC			$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660
58	LDAC amount			$ 4.07	$ 7.24	$ 8.10	$ 9.74	$ 8.74	$ 6.06	$ 43.97
59										
60	Total Bill			$ 98.75	$ 165.00	$ 182.82	$ 205.11	$ 165.70	$ 125.13	$ 942.50

61
62 DIFFERENCE:

63	Total Bill	($9.02)	($17.21)	($19.27)	($11.56)	$9.56	$1.05	($46.46)
64	% Change	-9.13%	-10.43%	-10.54%	-5.64%	5.77%	0.84%	-4.93%
65								
66	Base Rate	$ 0.59	$ 0.92	$ 1.00	$ 1.17	$ 1.07	$ 0.80	$ 5.54
67	% Change	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%
68								
69	COG & LDAC	$ (9.61)	$ (18.12)	$ (20.28)	$ (12.73)	$ 8.49	$ 0.25	$ (52.00)
70	% Change	-21.03%	-22.01%	-22.01%	-12.84%	12.29%	0.48%	-11.77%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Peak 2019 - 2020 Winter Cost of Gas Filing
Annual Bill Comparisons, Nov 18 - Apr 19 vs Nov 19 - Apr 20 - Commercial Rate G-41

November 1, 2019 - April 30, 2020
Commercial Rate (G-41)

PROPOSED			Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr
average Usage (Therms)			89	277	504	457	331	297	1,954
Winter:	7/1/2019	5/1/2019							
Cust Chg	$ 56.36	$ 55.68	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 338.16
Headblock	$ 0.4621	$ 0.4566	$ 40.99	$ 46.21	$ 46.21	$ 46.21	$ 46.21	$ 46.21	$ 272.04
Tailblock	$ 0.3104	$ 0.3067	$ -	$ 54.98	$ 125.36	$ 110.70	$ 71.65	$ 61.09	$ 423.78
HB Threshold	100	100							
Summer:									
Cust. Chg	$ 56.36	$ 55.68							
Headblock	$ 0.4621	$ 0.4566							
Tailblock	$ 0.3104	$ 0.3067							
HB Threshold	20	20							
Total Base Rate Amount			$ 97.35	$ 157.55	$ 227.93	$ 213.27	$ 174.22	$ 163.66	$ 1,033.97
COG Rate - (Seasonal)			$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190
COG amount			$ 54.91	$ 171.54	$ 311.89	$ 282.65	$ 204.78	$ 183.73	$ 1,209.50
LDAC			$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478
LDAC amount			$ 4.24	$ 13.26	$ 24.10	$ 21.84	$ 15.82	$ 14.20	$ 93.46
Total Bill			$156.50	$342.35	$563.91	$517.75	$394.83	$361.59	$2,336.93

November 1, 2018 - April 30, 2019
Commercial Rate (G-41)

CURRENT			Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr
average Usage (Therms)			89	277	504	457	331	297	1,954
Winter:	7/1/2018	11/1/2018							
Cust Chg	$ 53.45	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 334.08
Headblock	$ 0.4383	$ 0.4566	$ 40.50	$ 45.66	$ 45.66	$ 45.66	$ 45.66	$ 45.66	$ 268.80
Tailblock	$ 0.2944	$ 0.3067	$ -	$ 54.33	$ 123.86	$ 109.38	$ 70.80	$ 60.37	$ 418.72
HB Threshold	100	100							
Summer:									
Cust. Chg	$ 56.58	$ 56.07							
Headblock	$ 0.4639	$ 0.4597							
Tailblock	$ 0.3116	$ 0.3088							
HB Threshold	20	20							
Total Base Rate Amount			$ 96.18	$ 155.67	$ 225.20	$ 210.72	$ 172.14	$ 161.71	$ 1,021.60
COG Rate - (Seasonal)			$ 0.7403	$ 0.7403	$ 0.7496	$ 0.6707	$ 0.5204	$ 0.5817	$ 0.6651
COG amount			$ 65.67	$ 205.16	$ 377.69	$ 306.26	$ 172.16	$ 172.66	$ 1,299.59
LDAC			$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
LDAC amount			$ 6.71	$ 20.98	$ 38.14	$ 34.57	$ 25.04	$ 22.47	$ 147.91
Total Bill			$168.56	$381.80	$641.04	$551.54	$389.34	$356.84	$2,469.11

DIFFERENCE:

Total Bill	$ (12.06)	$ (39.45)	$ (77.12)	$ (33.78)	$ 25.48	$ 4.76	$ (132.18)
% Change	-7.16%	-10.33%	-12.03%	-6.13%	6.90%	1.33%	-5.35%
Base Rate	$ 1.17	$ 1.89	$ 2.72	$ 2.55	$ 2.08	$ 1.96	$ 12.37
% Change	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%
COG & LDAC	$ (13.23)	$ (41.34)	$ (79.85)	$ (36.33)	$ 23.40	$ 2.80	$ (144.55)
% Change	-20.15%	-20.15%	-21.14%	-11.86%	13.59%	1.62%	-11.12%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
1 d/b/a Liberty Utilities
2 Peak 2019 - 2020 Winter Cost of Gas Filing
71 Annual Bill Comparisons, Nov 18 - Apr 19 vs Nov 19 - Apr 20 - Commercial Rate G-42
72
73
74 November 1, 2019 - April 30, 2020
75 C&I High Winter Use Medium G-42

										Winter
76	PROPOSED									
77				Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Nov-Apr
78	average Usage (Therms)			830	2,189	3,708	3,406	2,603	2,395	15,130
79		7/1/2019	5/1/2019							
80	Winter:									
81	Cust Chg	$ 169 09	$ 167 06	$ 169 09	$ 169 09	$ 169 09	$ 169 09	$ 169 09	$ 169 09	$ 1 014 54
82	Headblock	$ 0 4202	$ 0 4152	$ 348 79	$ 420 20	$ 420 20	$ 420 20	$ 420 20	$ 420 20	$ 2 449 79
83	Tailblock	$ 0 2800	$ 0 2766	$ -	$ 332 82	$ 758 10	$ 673 62	$ 448 79	$ 390 57	$ 2 603 90
84	HB Threshold	1,000	1,000							
85										
86	Summer:									
87	Cust Chg	$169 09	$167 06							
88	Headblock	$ 0 4202	$ 0 4152							
89	Tailblock	$ 0 2800	$ 0 2766							
90	HB Threshold	400	400							
91										
92	Total Base Rate Amount			$ 517 88	$ 922 11	$ 1,347 39	$ 1,262 91	$ 1,038 08	$ 979 86	$ 6,068 23
93										
94	COG Rate - (Seasonal)			$ 0 6190	$ 0 6190	$ 0 6190	$ 0.6190	$ 0 6190	$ 0 6190	$ 0 6190
95	COG amount			$ 513 81	$ 1,354 77	$ 2,294 95	$ 2,108 18	$ 1,611 14	$ 1,482 44	$ 9 365 28
96										
97	LDAC			$ 0 0478	$ 0 0478	$ 0.0478	$ 0.0478	$ 0 0478	$ 0 0478	$ 0 0478
98	LDAC amount			$ 39 70	$ 104 68	$ 177 33	$ 162 90	$ 124 49	$ 114 55	$ 723 66
99										
100	Total Bill			$ 1,071.39	$ 2,381.56	$ 3,819.67	$ 3,533.99	$ 2,773.71	$ 2,576.85	$ 16,157.17

101
102 November 1, 2018 - April 30, 2019
103 C&I High Winter Use Medium G-42

										Winter
104	CURRENT									
105				Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Nov-Apr
106	average Usage (Therms)			830	2,189	3,708	3,406	2,603	2,395	15,130
107		5/1/2018	7/1/2018							
108	Winter:									
109	Cust Chg	$ 160 36	$ 167 06	$ 167 06	$ 167 06	$ 167 06	$ 167 06	$ 167 06	$ 167 06	$ 1 002 36
110	Headblock	$ 0 3986	$ 0 4152	$ 344 64	$ 415 20	$ 415 20	$ 415 20	$ 415 20	$ 415 20	$ 2 420 64
111	Tailblock	$ 0 2655	$ 0 2766	$ -	$ 328 78	$ 748 90	$ 665 44	$ 443 34	$ 385 83	$ 2,572 28
112	HB Threshold	1,000	1,000							
113										
114	Summer:									
115	Cust Chg	$ 168.21	$ 169 75							
116	Headblock	$ 0 4181	$ 0 4219							
117	Tailblock	$ 0 2785	$ 0 2811							
118	HB Threshold	400	400							
119										
120	Total Base Rate Amount			$ 511 70	$ 911 04	$ 1,331 16	$ 1,247 70	$ 1,025 60	$ 968 09	$ 5 995 28
121										
122	COG Rate - (Seasonal)			$ 0 7403	$ 0 7403	$ 0 7496	$ 0 6707	$ 0 5204	$ 0 5817	$0 6640
123	COG amount			$ 614 49	$ 1,620 25	$ 2,779 15	$ 2,284 26	$ 1,354 50	$ 1,393 11	$ 10,045 76
124										
125	LDAC			$ 0.0757	$ 0 0757	$ 0.0757	$ 0 0757	$ 0 0757	$ 0 0757	0 0757
126	LDAC amount			$ 62 84	$ 165 68	$ 280 66	$ 257 82	$ 197 03	$ 181 29	$ 1,145 32
127										
128	Total Bill			$ 1,189.03	$ 2,696.97	$ 4,390.97	$ 3,789.78	$ 2,577.13	$ 2,542.49	$ 17,186.36

129
130 DIFFERENCE:

131	Total Bill	$ (117.64)	$ (315.41)	$ (571.29)	$ (255.79)	$ 196.58	$ 34.36	$ (1,029.19)
132	% Change	-9.89%	-11.69%	-13.01%	-6.75%	7.63%	1.35%	-5.99%
133								
134	Base Rate	$ 6 18	$ 11 07	$ 16 24	$ 15 21	$ 12 48	$ 11 77	$ 72 95
135	% Change	1 21%	1 22%	1.22%	1.22%	1 22%	1 22%	1 22%
136								
137	COG & LDAC	$ (123 82)	$ (326 48)	$ (587 53)	$ (271 00)	$ 184 10	$ 22 58	$ (1,102 14)
138	% Change	-20 15%	-20 15%	-21 14%	-11 86%	13 59%	1 62%	-10 97%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
d/b/a Liberty Utilities
Peak 2019 - 2020 Winter Cost of Gas Filing
Annual Bill Comparisons, Nov 18 - Apr 19 vs Nov 19 - Apr 20 - Commercial Rate G-52

November 1, 2019 - April 30, 2020
Commercial Rate (G-52)

PROPOSED			Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr
average Usage (Therms)			1,352	1,866	2,284	2,160	1,886	1,760	11,306
Winter:	7/1/2019	5/1/2019							
Cust Chg	$ 169.09	$ 167.06	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1,014.54
Headblock	$ 0.2392	$ 0.2363	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 1,435.20
Tailblock	$ 0.1593	$ 0.1574	$ 56.03	$ 137.94	$ 204.48	$ 184.73	$ 141.07	$ 121.08	$ 845.32
HB Threshold	1,000	1,000							
Summer:									
Cust Chg	$ 169.09	$ 167.06							
Headblock	$ 0.1733	$ 0.1712							
Tailblock	$0.0985	$0.0973							
HB Threshold	1,000	1,000							
Total Base Rate Amount			$ 464.32	$ 546.23	$ 612.77	$ 593.02	$ 549.36	$ 529.37	$ 3,295.06
COG Rate - (Seasonal)			$0.6258	$0.6258	$0.6258	$0.6258	$0.6258	$0.6258	$0.6258
COG amount			$ 845.92	$ 1,167.69	$ 1,429.07	$ 1,351.49	$ 1,179.97	$ 1,101.44	$ 7,075.59
LDAC			$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	$0.0478	0.0478
LDAC amount			$ 64.65	$ 89.25	$ 109.22	$ 103.30	$ 90.19	$ 84.18	$ 540.79
Total Bill			$1,374.90	$1,803.17	$2,151.06	$2,047.81	$1,819.51	$1,715.00	$10,911.44

November 1, 2018 - April 30, 2019
Commercial Rate (G-52)

CURRENT			Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr
average Usage (Therms)			1,352	1,866	2,284	2,160	1,886	1,760	11,306
Winter:	5/1/2018	7/1/2018							
Cust Chg	$ 160.36	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 1,002.36
Headblock	$ 0.2268	$ 0.2363	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 1,417.80
Tailblock	$ 0.1511	$ 0.1574	$ 55.36	$ 136.29	$ 202.04	$ 182.52	$ 139.38	$ 119.63	$ 835.24
HB Threshold	1,000	1,000							
Summer:									
Cust Chg	$ 168.21	$ 169.75							
Headblock	$ 0.1724	$ 0.1740							
Tailblock	$ 0.0980	$ 0.0989							
HB Threshold	1,000	1,000							
Total Base Rate Amount			$ 458.72	$ 539.65	$ 605.40	$ 585.88	$ 542.74	$ 522.99	$ 3,255.40
COG Rate - (Seasonal)			$ 0.7456	$ 0.7456	$ 0.7549	$ 0.6760	$ 0.5257	$ 0.5870	$ 0.6728
COG amount			$ 1,007.86	$ 1,391.23	$ 1,723.88	$ 1,459.91	$ 991.23	$ 1,033.15	$ 7,607.26
LDAC			$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
LDAC amount			$ 102.33	$ 141.25	$ 172.87	$ 163.48	$ 142.74	$ 133.24	$ 855.90
Total Bill			$1,568.91	$2,072.13	$2,502.15	$2,209.27	$1,676.71	$1,689.38	$11,718.56

DIFFERENCE:

Total Bill	$ (194.01)	$ (268.96)	$ (351.09)	$ (161.47)	$ 142.81	$ 25.61	$ (807.11)
% Change	-12.37%	-12.98%	-14.03%	-7.31%	8.52%	1.52%	-6.89%
Base Rate	$ 5.60	$ 6.58	$ 7.37	$ 7.13	$ 6.61	$ 6.37	$ 39.66
% Change	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%
COG & LDAC	$ (199.61)	$ (275.54)	$ (358.45)	$ (168.60)	$ 136.19	$ 19.24	$ (846.78)
% Change	-19.81%	-19.81%	-20.79%	-11.55%	13.74%	1.86%	-11.13%

Liberty Utilities (EnergyNorth Natural Gas) Corp.
1 d/b/a Liberty Utilities
2 Peak 2019 - 2020 Winter Cost of Gas Filing

		Winter 2018-19	Winter 2019-20
207	**Residential Heating**		
208			
209	Customer Charge	$ 15 02	$ 15 20
210	First 100 Therms	$ 0 5502	$ 0 5569
211	Excess 100 Therms	$ 0 5502	$ 0 5569
212	LDAC	$ 0 0660	$ 0 0310
213	COG	$ 0 6633	$ 0 6203
214	Total Adjust	$ 0 7293	$ 0 6513
215			
216			
217			

					Total		Base Rate		COG		LDAC	
218												
219			Winter 2017-18 COG @	Winter 2018-19 CO	$ Impact	% Impact	$ Impact	% Impact	$ Impact	% Impact	$ Impact	% Impact
220			$0 7293	$0 6513	($0 08)	-11%						
221												
222	Cooking alone	5	$21 42	$21 03	($0 39)	-2%	$0 00	0%	-$0 22	-1%	-$0 18	-1%
223												
224		10	$27 82	$27 03	($0 78)	-3%	$0 00	0%	-$0 43	-2%	-$0 35	-1%
225												
226		20	$40 61	$39 05	($1 56)	-4%	$0 00	0%	-$0 86	-2%	-$0 70	-2%
227												
228	Water Heating alone	30	$53 41	$51 06	($2 34)	-4%	$0 00	0%	-$1 29	-3%	-$1 05	-2%
229												
230		45	$72 60	$69 09	($3 51)	-5%	$0 00	0%	-$1 94	-3%	-$1 58	-2%
231												
232		50	$79 00	$75 09	($3 90)	-5%	$0 00	0%	-$2 15	-3%	-$1 75	-2%
233												
234	Heating Alone	80	$110 98	$105 13	($5 85)	-5%	$0 00	0%	-$3 23	-3%	-$2 63	-2%
235												
236		125	$185 20	$174 82	($10 38)	-6%	$0 00	0%	-$5 72	-3%	-$4 66	-3%
237												
238		150	$206 95	$195 24	($11 71)	-6%	$0 00	0%	-$6 45	-3%	-$5 25	-3%
239												
240		200	$270 93	$255 31	($15 61)	-6%	$0 00	0%	-$8 61	-3%	-$7 01	-3%
241												

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Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Uitilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the Intent of the RDAF

SALES AND TRANSPORT DATA

CUSTOMER COMPONENT

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ENERGY COMPONENT

HEADBLOCK

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TAILBLOCK

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Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Uitilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

	(1)	(2)	(3)
Residential Revenue Decoupling Adjustment Factor			
1. Allowed Base Revenue	$ 40,585,321		
2. less: Actual and Estimated Base Revenue	44,670,474		
3. Revenue Deficiency / (Excess)		$ (4,085,153)	
4. divided by: Forecasted Residential Sales		65,525,887	
5. Residential Revenue Decoupling Adjustment Factor			$ (0.0623)
Commercial Revenue Decoupling Adjustment Factor			
6. Allowed Base Revenue	$ 31,436,763		
7. less: Actual and Estimated Base Revenue	34,368,401		
8. Revenue Deficiency / (Excess)		$ (2,931,638)	
9. divided by: Forecasted Commercial Sales		121,652,799	
10. Commercial Revenue Decoupling Adjustment Factor			$ (0.0241)

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

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EnergyNorth Natural Gas Inc

2018-19 Customers (Equivalent Bills)

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-18	S&T Aug-18	S&T Total
R-1	3,492	3,607	3,611	3,258	3,608	3,489	3,605	3,481	3,574	3,586	35,311
R-3	71,747	74,482	74,676	67,598	74,949	72,450	74,670	72,069	73,360	73,237	729,238
R-4	5,948	6,205	6,210	5,599	6,170	5,875	5,956	5,679	5,777	5,675	59,095
Total Resid.	81,187	84,295	84,496	76,455	84,727	81,814	84,231	81,229	82,711	82,498	823,643
G-41	9,279	9,683	9,716	8,804	9,751	9,385	9,526	9,043	9,125	9,104	93,416
G-42	1,388	1,439	1,441	1,303	1,442	1,386	1,427	1,375	1,452	1,415	14,067
G-43	57	60	60	54	59	56	58	56	55	56	571
G-51	1,291	1,339	1,340	1,209	1,339	1,292	1,328	1,285	1,261	1,298	12,982
G-52	378	391	390	352	392	381	396	384	396	391	3,851
G-53	37	38	37	34	35	34	36	35	38	38	363
G-54	29	30	29	27	30	28	29	28	29	29	288
Total C/I	12,458	12,980	13,013	11,783	13,048	12,563	12,799	12,206	12,357	12,331	125,538
Total All	93,645	97,275	97,509	88,238	97,776	94,377	97,030	93,435	95,068	94,828	949,181

2018-19 Benchmark Base Revenue Per Bill

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19
R-1	$ 23.348	$ 25.283	$ 26.012	$ 25.753	$ 24.068	$ 21.406	$ 20.682	$ 19.317	$ 18.581	$ 18.520
R-3	$ 57.780	$ 77.468	$ 88.801	$ 83.856	$ 71.842	$ 45.379	$ 33.218	$ 25.573	$ 22.855	$ 22.974
R-4	$ 22.047	$ 29.563	$ 33.409	$ 31.062	$ 28.369	$ 19.541	$ 12.971	$ 10.385	$ 9.239	$ 9.352
G-41	$ 139.367	$ 185.085	$ 211.254	$ 201.863	$ 172.188	$ 118.730	$ 88.674	$ 72.229	$ 67.581	$ 67.203
G-42	$ 821.458	$ 1,125.575	$ 1,259.787	$ 1,167.405	$ 983.555	$ 684.624	$ 472.419	$ 349.595	$ 296.514	$ 289.956
G-43	$ 6,550.598	$ 7,502.097	$ 8,664.543	$ 7,626.280	$ 6,553.396	$ 4,286.167	$ 2,095.245	$ 1,460.169	$ 1,276.137	$ 1,310.918
G-51	$ 115.703	$ 127.293	$ 130.854	$ 125.983	$ 115.870	$ 99.796	$ 94.811	$ 85.816	$ 86.305	$ 87.102
G-52	$ 627.414	$ 664.356	$ 662.625	$ 649.692	$ 593.999	$ 514.744	$ 372.278	$ 338.050	$ 345.377	$ 356.854
G-53	$ 5,223.263	$ 6,402.732	$ 5,376.660	$ 5,441.929	$ 5,316.353	$ 4,644.882	$ 2,523.664	$ 2,138.370	$ 2,145.270	$ 2,343.537
G-54	$ 4,462.745	$ 4,980.221	$ 4,323.529	$ 3,728.568	$ 2,872.867	$ 3,248.080	$ 2,004.687	$ 2,363.392	$ 2,360.857	$ 2,675.881

2018-19 Allowed Base Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ 81,527	$ 91,197	$ 93,922	$ 83,891	$ 86,847	$ 74,680	$ 74,567	$ 67,246	$ 66,414	$ 66,407	$ 786,697
R-3	$ 4,145,546	$ 5,770,020	$ 6,631,299	$ 5,668,528	$ 5,384,448	$ 3,287,719	$ 2,480,407	$ 1,842,996	$ 1,676,613	$ 1,682,555	$ 38,570,131
R-4	$ 131,133	$ 183,445	$ 207,454	$ 173,927	$ 175,042	$ 114,809	$ 77,260	$ 58,978	$ 53,370	$ 53,073	$ 1,228,492
Total Resid.	$ 4,358,207	$ 6,044,662	$ 6,932,675	$ 5,926,346	$ 5,646,337	$ 3,477,208	$ 2,632,234	$ 1,969,220	$ 1,796,397	$ 1,802,035	$ 40,585,321
G-41	$ 1,293,228	$ 1,792,221	$ 2,052,443	$ 1,777,158	$ 1,678,971	$ 1,114,268	$ 844,671	$ 653,195	$ 616,699	$ 611,821	$ 12,434,674
G-42	$ 1,139,946	$ 1,619,826	$ 1,815,459	$ 1,521,121	$ 1,418,584	$ 948,585	$ 673,921	$ 480,758	$ 430,461	$ 410,240	$ 10,458,902
G-43	$ 370,546	$ 453,128	$ 519,296	$ 412,836	$ 387,525	$ 240,740	$ 121,245	$ 81,867	$ 70,230	$ 73,193	$ 2,730,605
G-51	$ 149,337	$ 170,455	$ 175,348	$ 152,337	$ 155,124	$ 128,940	$ 125,890	$ 110,257	$ 108,874	$ 113,043	$ 1,389,604
G-52	$ 236,995	$ 259,433	$ 258,532	$ 228,906	$ 232,868	$ 196,359	$ 147,437	$ 129,752	$ 136,923	$ 139,482	$ 1,966,686
G-53	$ 193,261	$ 240,528	$ 200,011	$ 182,849	$ 188,021	$ 160,248	$ 90,936	$ 74,629	$ 82,021	$ 89,601	$ 1,502,104
G-54	$ 129,420	$ 149,240	$ 127,207	$ 100,837	$ 86,090	$ 91,487	$ 58,002	$ 66,175	$ 68,308	$ 77,422	$ 954,188
Total C/I	$ 3,512,731	$ 4,684,830	$ 5,148,296	$ 4,376,043	$ 4,147,181	$ 2,880,627	$ 2,062,103	$ 1,596,633	$ 1,513,516	$ 1,514,802	$ 31,436,763
Total All	$ 7,870,938	$ 10,729,492	$ 12,080,971	$ 10,302,389	$ 9,793,519	$ 6,357,835	$ 4,694,336	$ 3,565,853	$ 3,309,912	$ 3,316,837	$ 72,022,084

125-R

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

SALES AND TRANSPORT DATA

CUSTOMER COMPONENT

EnergyNorth Natural Gas Inc

2018-19 Customers (Equivalent Bills)

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-18	S&T Aug-18	S&T Total
R-1	3,492	3,607	3,611	3,258	3,608	3,489	3,605	3,481	3,574	3,586	35,311
R-3	71,747	74,482	74,676	67,598	74,949	72,450	74,670	72,069	73,360	73,237	729,238
R-4	5,948	6,205	6,210	5,599	6,170	5,875	5,956	5,679	5,777	5,675	59,095
Total Resid.	81,187	84,295	84,496	76,455	84,727	81,814	84,231	81,229	82,711	82,498	823,643
G-41	9,279	9,683	9,716	8,804	9,751	9,385	9,526	9,043	9,125	9,104	93,416
G-42	1,388	1,439	1,441	1,303	1,442	1,386	1,427	1,375	1,452	1,415	14,067
G-43	57	60	60	54	59	56	58	58	55	56	571
G-51	1,291	1,339	1,340	1,209	1,339	1,292	1,328	1,285	1,261	1,298	12,982
G-52	378	391	390	352	392	381	396	384	396	391	3,851
G-53	37	38	37	34	35	34	36	35	38	38	363
G-54	29	30	29	27	30	28	29	28	29	29	288
Total C/I	12,458	12,980	13,013	11,783	13,048	12,563	12,799	12,206	12,357	12,331	125,538
Total All	93,645	97,275	97,509	88,238	97,776	94,377	97,030	93,435	95,068	94,828	949,181

entire section changed

2018-19 Customer Charge

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19
R-1	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.20	$ 15.20
R-3	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.20	$ 15.20
R-4	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.20	$ 15.20
G-41	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 56.36	$ 56.36
G-42	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 169.09	$ 169.09
G-43	$ 716.95	$ 716.95	$ 716.95	$ 716.95	$ 716.95	$ 716.95	$ 716.95	$ 716.95	$ 725.66	$ 725.66
G-51	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 56.36	$ 56.36
G-52	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 169.09	$ 169.09
G-53	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 746.81	$ 746.81
G-54	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 737.84	$ 746.81	$ 746.81

2018-19 Customer Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ 52,451	$ 54,183	$ 54,237	$ 48,932	$ 54,202	$ 52,404	$ 54,158	$ 52,291	$ 54,337	$ 54,511	$ 531,706
R-3	$ 1,077,733	$ 1,118,817	$ 1,121,723	$ 1,015,408	$ 1,125,820	$ 1,088,293	$ 1,121,628	$ 1,082,561	$ 1,115,259	$ 1,113,383	$ 10,950,626
R-4	$ 89,344	$ 93,209	$ 93,275	$ 84,110	$ 92,684	$ 88,256	$ 89,469	$ 85,305	$ 87,820	$ 86,280	$ 889,752
Total Resid.	$ 1,219,528	$ 1,266,209	$ 1,269,235	$ 1,148,451	$ 1,272,707	$ 1,228,953	$ 1,265,256	$ 1,220,157	$ 1,257,416	$ 1,254,174	$ 12,402,084
G-41	$ 516,704	$ 539,197	$ 540,996	$ 490,224	$ 542,980	$ 522,584	$ 530,418	$ 503,568	$ 514,272	$ 513,073	$ 5,213,997
G-42	$ 231,832	$ 240,418	$ 240,749	$ 217,679	$ 240,952	$ 231,472	$ 238,317	$ 229,739	$ 245,475	$ 239,235	$ 2,355,869
G-43	$ 40,556	$ 43,304	$ 42,969	$ 38,811	$ 42,396	$ 40,269	$ 41,488	$ 40,197	$ 39,936	$ 40,516	$ 410,440
G-51	$ 71,870	$ 74,564	$ 74,618	$ 67,331	$ 74,547	$ 71,945	$ 73,937	$ 71,542	$ 71,094	$ 73,141	$ 724,589
G-52	$ 63,104	$ 65,238	$ 65,181	$ 58,861	$ 65,493	$ 63,728	$ 66,163	$ 64,122	$ 67,035	$ 66,091	$ 645,016
G-53	$ 27,300	$ 27,718	$ 27,447	$ 24,791	$ 26,095	$ 25,455	$ 26,587	$ 25,751	$ 28,553	$ 28,553	$ 268,250
G-54	$ 21,397	$ 22,110	$ 21,709	$ 19,954	$ 22,110	$ 20,782	$ 21,348	$ 20,659	$ 21,608	$ 21,608	$ 213,286
Total C/I	$ 972,763	$ 1,012,550	$ 1,013,668	$ 917,652	$ 1,014,563	$ 976,236	$ 998,257	$ 955,579	$ 987,972	$ 982,217	$ 9,831,448
Total All	$ 2,192,291	$ 2,278,759	$ 2,282,903	$ 2,066,103	$ 2,287,260	$ 2,205,189	$ 2,263,512	$ 2,175,736	$ 2,245,388	$ 2,236,391	$ 22,233,532

entire section changed

126-R

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

ENERGY COMPONENT

HEADBLOCK

2018-19 Decoupling Year Volume Headblock

1	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-18	S&T Aug-18	S&T Total
R-1	66,792	87,822	99,362	85,620	83,304	65,051	51,933	39,449	32,291	32,765	644,390
R-3	6,221,642	9,273,573	10,904,070	9,354,740	7,899,041	4,508,297	2,467,008	1,285,515	990,721	989,518	53,894,124
R-4	491,772	735,019	873,656	741,408	632,293	360,273	194,913	104,523	79,984	78,607	4,292,449
Total Resid.	6,780,206	10,096,414	11,877,089	10,181,768	8,614,637	4,933,621	2,713,854	1,429,487	1,102,997	1,100,890	58,830,964
G-41	698,491	844,909	926,015	786,563	812,716	565,676	193,382	74,324	57,111	57,590	5,016,777
G-42	1,241,023	1,392,453	1,480,285	1,260,544	1,375,171	1,112,472	572,704	309,194	259,160	258,160	9,261,165
G-43	1,170,879	1,560,031	1,880,532	1,588,205	1,421,586	921,228	605,797	357,158	250,469	286,023	10,041,907
G-51	89,144	92,287	99,291	84,728	92,222	85,981	84,523	78,530	74,698	80,187	861,572
G-52	367,555	376,179	397,277	337,304	372,033	351,543	342,439	318,213	318,801	332,043	3,513,388
G-53	931,915	1,052,819	1,326,395	1,075,500	1,041,483	836,257	775,207	663,591	645,678	699,787	9,048,631
G-54	1,738,724	1,395,308	1,366,276	1,273,105	1,248,999	1,368,406	1,679,230	1,659,707	1,578,597	1,678,114	14,986,466
Total C/I	6,237,730	6,713,986	7,476,072	6,405,948	6,364,211	5,241,563	4,253,283	3,460,716	3,184,514	3,391,883	52,729,905
Total All	13,017,936	16,810,400	19,353,161	16,587,717	14,978,848	10,175,185	6,967,137	4,890,202	4,287,510	4,492,773	111,560,869

entire section changed

2018-19 Headblock Charge

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19
R-1	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3766	$ 0.3766
R-3	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5569	$ 0.5569
R-4	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5569	$ 0.5569
G-41	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4566	$ 0.4621	$ 0.4621
G-42	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4152	$ 0.4202	$ 0.4202
G-43	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.1167	$ 0.1167	$ 0.1181	$ 0.1181
G-51	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2752	$ 0.2785	$ 0.2785
G-52	$ 0.2363	$ 0.2363	$ 0.2363	$ 0.2363	$ 0.2363	$ 0.2363	$ 0.1712	$ 0.1712	$ 0.1733	$ 0.1733
G-53	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.0792	$ 0.0792	$ 0.0802	$ 0.0802
G-54	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0342	$ 0.0342	$ 0.0346	$ 0.0346

2018-19 Decoupling Year Volume Headblock Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ 24,988	$ 32,856	$ 37,173	$ 32,032	$ 31,165	$ 24,337	$ 19,429	$ 14,759	$ 12,227	$ 12,406	$ 241,372
R-3	$ 3,422,877	$ 5,102,066	$ 5,999,121	$ 5,146,722	$ 4,345,836	$ 2,480,341	$ 1,357,280	$ 707,255	$ 551,719	$ 551,049	$ 29,684,365
R-4	$ 270,560	$ 404,388	$ 480,662	$ 407,903	$ 347,870	$ 198,212	$ 107,236	$ 57,505	$ 44,542	$ 43,775	$ 2,362,653
Total Resid.	$ 3,718,524	$ 5,539,309	$ 6,516,956	$ 5,586,656	$ 4,724,871	$ 2,702,891	$ 1,483,945	$ 779,519	$ 608,488	$ 607,230	$ 32,268,390
G-41	$ 318,926	$ 385,779	$ 422,812	$ 359,139	$ 371,080	$ 258,283	$ 88,297	$ 33,936	$ 26,394	$ 26,615	$ 2,291,261
G-42	$ 515,277	$ 578,151	$ 614,620	$ 523,383	$ 570,976	$ 461,902	$ 237,789	$ 128,378	$ 108,911	$ 108,490	$ 3,847,878
G-43	$ 298,807	$ 398,119	$ 479,911	$ 405,309	$ 362,788	$ 235,097	$ 70,695	$ 41,679	$ 29,585	$ 33,784	$ 2,355,774
G-51	$ 24,531	$ 25,398	$ 27,324	$ 23,316	$ 25,378	$ 23,661	$ 23,260	$ 21,610	$ 20,807	$ 22,330	$ 237,614
G-52	$ 86,861	$ 88,899	$ 93,885	$ 79,712	$ 87,920	$ 83,077	$ 58,629	$ 54,481	$ 55,242	$ 57,537	$ 746,244
G-53	$ 153,908	$ 173,876	$ 219,058	$ 177,622	$ 172,004	$ 138,110	$ 61,431	$ 52,586	$ 51,759	$ 56,097	$ 1,256,451
G-54	$ 109,526	$ 87,894	$ 86,065	$ 80,196	$ 78,677	$ 86,199	$ 57,466	$ 56,798	$ 54,644	$ 58,089	$ 755,554
Total C/I	$ 1,507,838	$ 1,738,115	$ 1,943,674	$ 1,648,676	$ 1,668,823	$ 1,286,330	$ 597,566	$ 389,469	$ 347,342	$ 362,942	$ 11,490,776
Total All	$ 5,226,362	$ 7,277,424	$ 8,460,629	$ 7,235,332	$ 6,393,695	$ 3,989,221	$ 2,081,511	$ 1,168,988	$ 955,830	$ 970,173	$ 43,759,166

entire section changed

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

TAILBLOCK

2018-19 Decoupling Year Volume Tailblock

2	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-18	S&T Aug-18	S&T Total
R-1	-	-	-	-	-	-	-	-	-	-	-
R-3	-	-	-	-	-	-	-	-	-	-	-
R-4	-	-	-	-	-	-	-	-	-	-	-
Total Resid.	-	-	-	-	-	-	-	-	-	-	-
G-41	1,938,614	3,343,950	4,166,822	3,576,457	2,740,654	1,255,821	668,596	279,273	188,281	175,600	18,334,069
G-42	2,451,369	4,101,210	4,969,759	4,330,009	3,389,239	1,645,906	909,929	385,250	248,064	272,512	22,703,247
G-43	-	-	-	-	-	-	-	-	-	-	-
G-51	263,711	349,540	410,409	357,324	332,444	250,801	213,310	170,693	144,292	154,724	2,647,248
G-52	488,052	651,357	760,745	660,694	606,499	430,589	314,228	245,164	222,157	241,924	4,621,407
G-53	-	-	-	-	-	-	-	-	-	-	-
G-54	-	-	-	-	-	-	-	-	-	-	-
Total C/I	5,141,746	8,446,056	10,307,734	8,924,483	7,068,836	3,583,117	2,106,064	1,080,380	802,794	844,759	48,305,971
Total All	5,141,746	8,446,056	10,307,734	8,924,483	7,068,836	3,583,117	2,106,064	1,080,380	802,794	844,759	48,305,971

entire section changed

2018-19 Tailblock Charge

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19
R-1	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3741	$ 0.3786	$ 0.3786
R-3	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5502	$ 0.5569	$ 0.5569
R-4	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2201	$ 0.2228	$ 0.2228
G-41	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3067	$ 0.3104	$ 0.3104
G-42	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2766	$ 0.2800	$ 0.2800
G-43	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.2552	$ 0.1167	$ 0.1167	$ 0.1181	$ 0.1181
G-51	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1789	$ 0.1811	$ 0.1811
G-52	$ 0.1574	$ 0.1574	$ 0.1574	$ 0.1574	$ 0.1574	$ 0.1574	$ 0.0973	$ 0.0973	$ 0.0985	$ 0.0985
G-53	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.1652	$ 0.0792	$ 0.0792	$ 0.0802	$ 0.0802
G-54	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0630	$ 0.0342	$ 0.0342	$ 0.0346	$ 0.0346

2018-19 Decoupling Year Volume Tailblock Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R-3	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
R-4	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total Resid.	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
G-41	$ 594,541	$ 1,025,534	$ 1,277,895	$ 1,096,840	$ 840,513	$ 385,139	$ 205,047	$ 85,648	$ 58,448	$ 54,511	$ 5,624,116
G-42	$ 678,050	$ 1,134,397	$ 1,374,638	$ 1,197,683	$ 937,465	$ 455,258	$ 251,687	$ 106,560	$ 69,448	$ 76,293	$ 6,281,480
G-43	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
G-51	$ 47,173	$ 62,526	$ 73,415	$ 63,919	$ 59,468	$ 44,864	$ 38,157	$ 30,534	$ 26,128	$ 28,017	$ 474,200
G-52	$ 76,809	$ 102,510	$ 119,726	$ 103,980	$ 95,451	$ 67,766	$ 30,579	$ 23,858	$ 21,879	$ 23,825	$ 666,383
G-53	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
G-54	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Total C/I	$ 1,396,573	$ 2,324,967	$ 2,845,673	$ 2,462,421	$ 1,932,897	$ 953,028	$ 525,471	$ 246,601	$ 175,902	$ 182,645	$ 13,046,179
Total All	$ 1,396,573	$ 2,324,967	$ 2,845,673	$ 2,462,421	$ 1,932,897	$ 953,028	$ 525,471	$ 246,601	$ 175,902	$ 182,645	$ 13,046,179

entire section changed

Liberty Utilities (Energy North Natural Gas) Corp. d/b/a Liberty Utilities
Revenue Decoupling Adjustment Factor (RDAF)
Allowed Base Revenue based on the formula in the tariff

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HEADBLOCK + TAILBLOCK

2018-19 Decoupling Year Volume Headblock + Tailblock

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-18	S&T Aug-18	S&T Total
R-1	66,792	87,822	99,362	85,620	83,304	65,051	51,933	39,449	32,291	32,765	644,390
R-3	6,221,642	9,273,573	10,904,070	9,354,740	7,899,041	4,508,297	2,467,008	1,285,515	990,721	989,518	53,894,124
R-4	491,772	735,019	873,656	741,408	632,293	360,273	194,913	104,523	79,984	78,607	4,292,449
Total Resid.	**6,780,206**	**10,096,414**	**11,877,089**	**10,181,768**	**8,614,637**	**4,933,621**	**2,713,854**	**1,429,487**	**1,102,997**	**1,100,890**	**58,830,964**
G-41	2,637,105	4,188,859	5,092,837	4,363,020	3,553,370	1,821,497	861,978	353,597	245,393	233,190	23,350,846
G-42	3,692,391	5,493,662	6,450,044	5,590,553	4,764,411	2,758,378	1,482,633	694,444	507,224	530,672	31,964,413
G-43	1,170,879	1,560,031	1,880,532	1,588,205	1,421,586	921,228	605,797	357,158	250,469	266,023	10,041,907
G-51	352,855	441,827	509,700	442,052	424,666	336,783	297,833	249,223	218,990	234,891	3,508,820
G-52	855,608	1,027,535	1,158,022	997,997	978,532	782,132	656,667	563,376	540,958	573,966	8,134,795
G-53	931,915	1,052,819	1,326,395	1,075,500	1,041,483	836,257	775,207	663,591	645,678	699,767	9,048,631
G-54	1,738,724	1,395,308	1,368,276	1,273,105	1,248,999	1,368,406	1,679,230	1,659,707	1,578,597	1,678,114	14,986,466
Total C/I	**11,379,477**	**15,160,041**	**17,783,806**	**15,330,432**	**13,433,046**	**8,824,681**	**6,359,347**	**4,641,096**	**3,987,308**	**4,236,643**	**101,035,876**
Total All	**18,159,682**	**25,256,456**	**29,660,895**	**25,512,200**	**22,047,684**	**13,758,302**	**9,073,201**	**5,970,583**	**5,090,305**	**5,337,533**	**159,866,840**

2018-19 Decoupling Year Volume Headblock + Tailblock Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ 24,988	$ 32,856	$ 37,173	$ 32,032	$ 31,165	$ 24,337	$ 19,429	$ 14,759	$ 12,227	$ 12,406	$ 241,372
R-3	$ 3,422,977	$ 5,102,066	$ 5,999,121	$ 5,146,722	$ 4,345,836	$ 2,480,341	$ 1,357,280	$ 707,255	$ 551,719	$ 551,049	$ 29,664,365
R-4	$ 270,560	$ 404,388	$ 480,662	$ 407,903	$ 347,870	$ 198,212	$ 107,236	$ 57,505	$ 44,542	$ 43,775	$ 2,362,653
Total Resid.	**$ 3,718,524**	**$ 5,539,309**	**$ 6,516,956**	**$ 5,586,656**	**$ 4,724,871**	**$ 2,702,891**	**$ 1,483,945**	**$ 779,519**	**$ 608,488**	**$ 607,230**	**$ 32,268,390**
G-41	$ 913,467	$ 1,411,313	$ 1,700,707	$ 1,455,979	$ 1,211,593	$ 643,423	$ 293,344	$ 119,584	$ 84,842	$ 81,126	$ 7,915,378
G-42	$ 1,193,327	$ 1,712,548	$ 1,989,258	$ 1,721,065	$ 1,508,442	$ 917,161	$ 489,476	$ 234,939	$ 178,359	$ 184,783	$ 10,129,358
G-43	$ 298,607	$ 398,119	$ 479,911	$ 405,309	$ 362,788	$ 235,097	$ 70,695	$ 41,679	$ 29,585	$ 33,784	$ 2,355,774
G-51	$ 71,704	$ 87,923	$ 100,738	$ 87,235	$ 84,847	$ 68,525	$ 61,417	$ 52,144	$ 46,934	$ 50,346	$ 711,813
G-52	$ 163,671	$ 191,410	$ 213,611	$ 183,692	$ 183,370	$ 150,843	$ 89,208	$ 78,339	$ 77,120	$ 81,362	$ 1,412,628
G-53	$ 153,908	$ 173,876	$ 219,058	$ 177,622	$ 172,004	$ 138,110	$ 61,431	$ 52,586	$ 51,759	$ 56,097	$ 1,256,451
G-54	$ 109,526	$ 87,894	$ 88,065	$ 80,198	$ 76,677	$ 86,199	$ 57,466	$ 56,798	$ 54,644	$ 58,089	$ 755,554
Total C/I	**$ 2,904,411**	**$ 4,063,082**	**$ 4,789,347**	**$ 4,111,097**	**$ 3,601,720**	**$ 2,239,358**	**$ 1,123,037**	**$ 636,070**	**$ 523,244**	**$ 545,588**	**$ 24,536,954**
Total All	**$ 6,622,936**	**$ 9,602,391**	**$ 11,306,303**	**$ 9,697,754**	**$ 8,326,592**	**$ 4,942,248**	**$ 2,606,982**	**$ 1,415,589**	**$ 1,131,732**	**$ 1,152,818**	**$ 56,805,344**

TOTAL REVENUE

2018-19 Decoupling Year Base Revenue

	S&T Nov-18	S&T Dec-18	S&T Jan-19	S&T Feb-19	S&T Mar-19	S&T Apr-19	S&T May-19	S&T Jun-19	S&T Jul-19	S&T Aug-19	S&T Total
R-1	$ 77,439	$ 87,039	$ 91,410	$ 80,984	$ 85,368	$ 76,741	$ 73,587	$ 67,049	$ 66,563	$ 66,917	$ 773,078
R-3	$ 4,500,710	$ 6,220,883	$ 7,120,844	$ 6,162,130	$ 5,471,656	$ 3,568,634	$ 2,478,908	$ 1,789,816	$ 1,666,978	$ 1,664,432	$ 40,644,991
R-4	$ 359,903	$ 497,596	$ 573,936	$ 492,013	$ 440,554	$ 286,468	$ 196,705	$ 142,811	$ 132,362	$ 130,055	$ 3,252,404
Total Resid.	**$ 4,938,052**	**$ 6,805,518**	**$ 7,786,191**	**$ 6,735,107**	**$ 5,997,578**	**$ 3,931,843**	**$ 2,749,200**	**$ 1,999,677**	**$ 1,865,904**	**$ 1,861,404**	**$ 44,670,474**
G-41	$ 1,430,171	$ 1,950,510	$ 2,241,703	$ 1,946,203	$ 1,754,553	$ 1,168,007	$ 823,762	$ 623,152	$ 599,114	$ 594,200	$ 13,129,375
G-42	$ 1,425,159	$ 1,952,987	$ 2,230,006	$ 1,938,744	$ 1,749,393	$ 1,148,633	$ 727,793	$ 464,678	$ 423,835	$ 424,018	$ 12,485,227
G-43	$ 339,363	$ 441,423	$ 522,880	$ 444,120	$ 405,183	$ 275,366	$ 112,182	$ 81,876	$ 69,520	$ 74,301	$ 2,766,214
G-51	$ 143,575	$ 162,487	$ 175,356	$ 154,566	$ 159,394	$ 140,470	$ 135,354	$ 123,686	$ 118,028	$ 123,487	$ 1,436,403
G-52	$ 226,775	$ 256,647	$ 278,792	$ 242,553	$ 248,864	$ 214,572	$ 155,371	$ 142,461	$ 144,155	$ 147,453	$ 2,057,643
G-53	$ 181,208	$ 201,594	$ 246,505	$ 202,413	$ 198,099	$ 163,565	$ 88,018	$ 78,337	$ 80,312	$ 84,650	$ 1,524,700
G-54	$ 130,923	$ 110,004	$ 107,773	$ 100,150	$ 100,788	$ 106,981	$ 78,814	$ 77,458	$ 76,252	$ 79,697	$ 968,840
Total C/I	**$ 3,877,174**	**$ 5,075,631**	**$ 5,803,015**	**$ 5,028,749**	**$ 4,616,274**	**$ 3,215,593**	**$ 2,121,294**	**$ 1,591,649**	**$ 1,511,216**	**$ 1,627,805**	**$ 34,368,401**
Total All	**$ 8,815,226**	**$ 11,881,150**	**$ 13,589,206**	**$ 11,763,856**	**$ 10,613,852**	**$ 7,147,437**	**$ 4,870,494**	**$ 3,591,326**	**$ 3,377,119**	**$ 3,389,209**	**$ 79,038,875**

II RATE SCHEDULES
FIRM RATE SCHEDULES

	Rates effective November 1, 2019 - April 30, 2020 ~~Rates effective April 1, 2019 - April 30, 2019~~ Winter Period				Rates Effective May 1, 2020 - October 31, 2020 ~~Rates Effective Septmber 1, 2018 - October 31, 2018~~ Summer Period			
	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-1	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
All Therms	$ 0.3786	$ 0.6203	$ 0.0310	$ 1.0299	$ 0.3786	$ 0.4520	$ 0.0310	$ 0.8616
	~~$ 0.3741~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.0226~~	~~$ 0.3938~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.8799~~
Residential Heating - R-3	~~$ 15.02~~			~~$ 15.02~~	~~$ 15.02~~			~~$ 15.02~~
Customer Charge per Month per Meter	$ 15.20			$ 15.20	$ 15.20			$ 15.20
Size of the first block	all therms				all therms			
Therms in the first block per month at	$ 0.5569	$ 0.6203	$ 0.0310	$ 1.2082	$ 0.5569	$ 0.4520	$ 0.0310	$ 1.0399
	~~$ 0.5502~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1987~~	~~$ 0.5631~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 1.0492~~
Residential Heating - R-4	~~$ 6.01~~			~~$ 6.01~~	~~$ 6.00~~			~~$ 6.00~~
Customer Charge per Month per Meter	$ 6.08			$ 6.08	$ 6.08			$ 6.08
Size of the first block	all therms				20 therms			
Therms in the first block per month at	$ 0.2228	$ 0.6203	$ 0.0310	$ 0.8740	$ 0.2228	$ 0.4520	$ 0.0310	$ 0.7058
	~~$ 0.2201~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 0.8686~~	~~$ 0.2252~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.7113~~
Commercial/Industrial - G-41	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.4621	$ 0.6190	$ 0.0478	$ 1.1290	$ 0.4621	$ 0.4474	$ 0.0478	$ 0.8573
	~~$ 0.4566~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1140~~	~~$ 0.4639~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.9257~~
All therms over the first block per month at	$ 0.3104	$ 0.6190	$ 0.0478	$ 0.9773	$ 0.3104	$ 0.4474	$ 0.0478	$ 0.8056
	~~$ 0.3067~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9641~~	~~$ 0.3116~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.7734~~
Commercial/Industrial - G-42	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.4202	$ 0.6190	$ 0.0478	$ 1.0871	$ 0.4202	$ 0.4474	$ 0.0478	$ 0.9154
	~~$ 0.4152~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0726~~	~~$ 0.4219~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8837~~
All therms over the first block per month at	$ 0.2800	$ 0.6190	$ 0.0478	$ 0.9468	$ 0.2800	$ 0.4474	$ 0.0478	$ 0.7752
	~~$ 0.2766~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9340~~	~~$ 0.2811~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.7429~~
Commercial/Industrial - G-43	~~$ 716.95~~			~~$ 716.95~~	~~$ 728.47~~			~~$ 728.47~~
Customer Charge per Month per Meter	$ 725.66			$ 725.66	$ 725.66			$ 725.66
All therms over the first block per month at	$ 0.2583	$ 0.6190	$ 0.0478	$ 0.9251	$ 0.1181	$ 0.4474	$ 0.0478	$ 0.6133
	~~$ 0.2552~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9126~~	~~$ 0.1185~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.5803~~
Commercial/Industrial - G-51	~~$ 55.68~~			~~$ 55.68~~	~~$ 56.58~~			~~$ 56.58~~
Customer Charge per Month per Meter	$ 56.36			$ 56.36	$ 56.36			$ 56.36
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.2785	$ 0.6258	$ 0.0478	$ 0.9522	$ 0.2785	$ 0.4591	$ 0.0478	$ 0.7854
	~~$ 0.2752~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9379~~	~~$ 0.2798~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7683~~
All therms over the first block per month at	$ 0.1811	$ 0.6258	$ 0.0478	$ 0.8547	$ 0.1811	$ 0.4591	$ 0.0478	$ 0.6880
	~~$ 0.1789~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8416~~	~~$ 0.1817~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6704~~
Commercial/Industrial - G-52	~~$ 167.06~~			~~$ 167.06~~	~~$ 169.75~~			~~$ 169.75~~
Customer Charge per Month per Meter	$ 169.09			$ 169.09	$ 169.09			$ 169.09
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.2392	$ 0.6258	$ 0.0478	$ 0.9128	$ 0.1733	$ 0.4591	$ 0.0478	$ 0.6802
	~~$ 0.2383~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9000~~	~~$ 0.1740~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.6627~~
All therms over the first block per month at	$ 0.1593	$ 0.6258	$ 0.0478	$ 0.8329	$ 0.0985	$ 0.4591	$ 0.0478	$ 0.6054
	~~$ 0.1574~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8201~~	~~$ 0.0989~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5876~~
Commercial/Industrial - G-53	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.1672	$ 0.6258	$ 0.0478	$ 0.8408	$ 0.0802	$ 0.4591	$ 0.0478	$ 0.5871
	~~$ 0.1652~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8279~~	~~$ 0.0805~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5692~~
Commercial/Industrial - G-54	~~$ 737.84~~			~~$ 737.84~~	~~$ 749.68~~			~~$ 749.68~~
Customer Charge per Month per Meter	$ 746.81			$ 746.81	$ 746.81			$ 746.81
All therms over the first block per month at	$ 0.0638	$ 0.6258	$ 0.0478	$ 0.7374	$ 0.0346	$ 0.4591	$ 0.0478	$ 0.5415
	~~$ 0.0630~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7267~~	~~$ 0.0347~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5234~~

Issued: ~~October xx, 2018~~ October xx, 2019
Effective: ~~November 1, 2018~~ November 1, 2019

Issued by: ______________________
Susan L. Fleck
Title: President

Issued in compliance with NHPUC Order No. xx,xxx dated xxxx xx, 2019 in Docket DG 19-xxx
~~Issued in compliance with NHPUC Order No. 26,188 dated November 01, 2018 in Docket DG 18-137~~

	Rates effective November 1, 2019 - April 30, 2020 ~~Rates effective April 1, 2019 - April 30, 2019~~ Winter Period				Rates Effective May 1, 2020 - October 31, 2020 ~~Rates Effective Septmber 1, 2018 - October 31, 2018~~ Summer Period			
	Delivery Charge	Cost of Gas Rate Page 92	LDAC Charge	Total Rate	Delivery Charge	Cost of Gas Rate Page 89	LDAC Page 97	Total Rate
Residential Non Heating - R-5	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
All therms	$ 0.4922	$ 0.6203	$ 0.0310	$ 1.1435	$ 0.4922	$ 0.4520	$ 0.0310	$ 0.9752
	~~$ 0.4863~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.1348~~	~~$ 0.5119~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.9980~~
Residential Heating - R-6	~~$ 19.53~~			~~$ 19.53~~	~~$ 19.52~~			~~$ 19.52~~
Customer Charge per Month per Meter	$ 19.76			$ 19.76	$ 19.76			$ 19.76
All therms	$ 0.7240	$ 0.6203	$ 0.0310	$ 1.3752	$ 0.7240	$ 0.4520	$ 0.0310	$ 1.2069
	~~$ 0.7153~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 1.3638~~	~~$ 0.7320~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 1.2181~~
Residential Heating - R-7	~~$ 7.81~~			~~$ 7.81~~	~~$ 7.81~~			~~$ 7.81~~
Customer Charge per Month per Meter	$ 7.90			$ 7.90	$ 7.90			$ 7.90
All therms	$ 0.2896	$ 0.6203	$ 0.0310	$ 0.9409	$ 0.2896	$ 0.4520	$ 0.0310	$ 0.7726
	~~$ 0.2861~~	~~$ 0.5825~~	~~$ 0.0660~~	~~$ 0.9346~~	~~$ 0.2928~~	~~$ 0.3916~~	~~$ 0.0945~~	~~$ 0.7789~~
Commercial/Industrial - G-44	~~$ 72.38~~			~~$ 72.38~~	~~$ 73.56~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				20 therms			
Therms in the first block per month at	$ 0.6008	$ 0.6190	$ 0.0478	$ 1.2676	$ 0.5463	$ 0.4474	$ 0.0478	$ 1.0415
	~~$ 0.5936~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.2510~~	~~$ 0.6031~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0649~~
All therms over the first block per month a	$ 0.4036	$ 0.6190	$ 0.0478	$ 1.0704	$ 0.3639	$ 0.4474	$ 0.0478	$ 0.8591
	~~$ 0.3987~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0561~~	~~$ 0.4051~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8669~~
Commercial/Industrial - G-45	~~$ 217.18~~			~~$ 217.18~~	~~$ 220.68~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				400 therms			
Therms in the first block per month at	$ 0.5463	$ 0.6190	$ 0.0478	$ 1.2131	$ 0.5463	$ 0.4474	$ 0.0478	$ 1.0415
	~~$ 0.5398~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.1972~~	~~$ 0.5485~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 1.0103~~
All therms over the first block per month a	$ 0.3639	$ 0.6190	$ 0.0478	$ 1.0308	$ 0.3639	$ 0.4474	$ 0.0478	$ 0.8591
	~~$ 0.3596~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 1.0170~~	~~$ 0.3654~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.8272~~
Commercial/Industrial - G-46	~~$ 932.04~~			~~$ 932.04~~	~~$ 947.01~~			~~$ 947.01~~
Customer Charge per Month per Meter	$ 943.36			$ 943.36	$ 943.36			$ 943.36
All therms over the first block per month a	$ 0.3358	$ 0.6190	$ 0.0478	$ 1.0026	$ 0.1535	$ 0.4474	$ 0.0478	$ 0.6487
	~~$ 0.3218~~	~~$ 0.5817~~	~~$ 0.0757~~	~~$ 0.9892~~	~~$ 0.1640~~	~~$ 0.3855~~	~~$ 0.0763~~	~~$ 0.6158~~
Commercial/Industrial - G-55	~~$ 72.38~~			~~$ 72.38~~	~~$ 73.56~~			~~$ 73.56~~
Customer Charge per Month per Meter	$ 73.26			$ 73.26	$ 73.26			$ 73.26
Size of the first block	100 therms				100 therms			
Therms in the first block per month at	$ 0.3621	$ 0.6258	$ 0.0478	$ 1.0357	$ 0.3621	$ 0.4591	~~$ 0.0763~~	$ 0.8975
	~~$ 0.3578~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 1.0205~~	~~$ 0.3635~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.8522~~
All therms over the first block per month a	$ 0.2354	$ 0.6258	$ 0.0478	$ 0.9090	$ 0.2354	$ 0.4591	$ 0.0478	$ 0.7423
	~~$ 0.2326~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8953~~	~~$ 0.2363~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7250~~
Commercial/Industrial - G-56	~~$ 217.18~~			~~$ 217.18~~	~~$ 220.68~~			~~$ 220.68~~
Customer Charge per Month per Meter	$ 219.82			$ 219.82	$ 219.82			$ 219.82
Size of the first block	1000 therms				1000 therms			
Therms in the first block per month at	$ 0.3109	$ 0.6258	$ 0.0478	$ 0.9846	$ 0.2253	$ 0.4591	$ 0.0478	$ 0.7322
	~~$ 0.3072~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.9699~~	~~$ 0.2262~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.7149~~
All therms over the first block per month a	$ 0.2071	$ 0.6258	$ 0.0478	$ 0.8807	$ 0.1280	$ 0.4591	$ 0.0478	$ 0.6349
	~~$ 0.2046~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8673~~	~~$ 0.1286~~			
Commercial/Industrial - G-57	~~$ 959.10~~			~~$ 959.10~~	~~$ 974.59~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.84			$ 970.84	$ 970.84			$ 970.84
All therms over the first block per month a	$ 0.2174	$ 0.6258	$ 0.0478	$ 0.8910	$ 0.1043	$ 0.4591	$ 0.0478	$ 0.6112
	~~$ 0.2148~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.8775~~	~~$ 0.1047~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5934~~
Commercial/Industrial - G-58	~~$ 959.10~~			~~$ 959.10~~	~~$ 974.59~~			~~$ 974.59~~
Customer Charge per Month per Meter	$ 970.84			$ 970.84	$ 970.84			$ 970.84
All therms over the first block per month a	$ 0.0829	$ 0.6258	$ 0.0478	$ 0.7565	$ 0.0450	$ 0.4591	$ 0.0478	$ 0.5519
	~~$ 0.0819~~	~~$ 0.5870~~	~~$ 0.0757~~	~~$ 0.7446~~	~~$ 0.0451~~	~~$ 0.4124~~	~~$ 0.0763~~	~~$ 0.5338~~

Issued: ~~October xx, 2018~~ October xx, 2019

Effective: ~~November 1, 2018~~ November 1, 2019

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Susan L. Fleck

Title: President

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~~Issued in compliance with NHPUC Order No 26,188 dated November 01, 2018 in Docket DG 18-137~~

Liberty Utilities (EnergyNorth Natural Gas) Corp.

1
2 Off Peak 2020 Summer Cost of Gas Filing
3 Annual Bill Comparisons, May 19 - Oct 19 vs May 20 - Oct 20 - Residential Heating Rate R-3
4
5
6 November 1, 2019 - April 30, 2020 / May 1, 2020 - October 31, 2020
7 Residential Heating (R3)

Line		7/1/2019	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
8																	
9																	
10	Typical Usage (Therms)		62	110	123	148	132	92	668	51	28	16	14	14	21	142	809
11																	
12	Winter:																
13	Cust. Chg	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 91.20								
14	Headblock	$ 0.5560	$ -	$ -	$ -	$ -	$ -	$ -	$ -								
15	Tailblock	$ 0.5560	$ 34.35	$ 61.12	$ 68.38	$ 82.21	$ 73.78	$ 51.15	$ 370.99								
16	HB Threshold	-															
17																	
18	Summer:																
19	Cust. Chg	$ 15.20								$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 91.20	$ 182.40
20	Headblock	$ 0.5560								$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
21	Tailblock	$ 0.5560								$ 28.31	$ 15.51	$ 8.85	$ 7.56	$ 7.65	$ 11.47	$ 79.35	$ 450.34
22	HB Threshold	-															
23																	
24	Total Base Rate Amount		$ 49.55	$ 76.32	$ 83.58	$ 97.41	$ 88.98	$ 66.35	$ 462.19	$ 43.51	$ 30.71	$ 24.05	$ 22.76	$ 22.85	$ 26.67	$ 170.55	$ 632.74
25																	
26	COG Rate - (Seasonal)		$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.6203	$ 0.4520	$ 0.4520	$ 0.4520	$ 0.4520	$ 0.4520	$ 0.4520	$ 0.4520	$ 0.5906
27	COG amount		$ 38.26	$ 68.07	$ 76.17	$ 91.57	$ 82.17	$ 56.98	$ 413.23	$ 22.97	$ 12.59	$ 7.18	$ 6.14	$ 6.21	$ 9.31	$ 64.41	$ 477.63
28																	
29	LDAC		$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310	$ 0.0310
30	LDAC amount		$ 1.91	$ 3.40	$ 3.80	$ 4.57	$ 4.10	$ 2.84	$ 20.63	$ 1.57	$ 0.86	$ 0.49	$ 0.42	$ 0.43	$ 0.64	$ 4.41	$ 25.04
31																	
32	Total Bill		$ 89.73	$ 147.79	$ 163.55	$ 193.55	$ 175.25	$ 126.18	$ 896.05	$ 68.05	$ 44.16	$ 31.73	$ 29.32	$ 29.49	$ 36.62	$ 239.37	$ 1,135.42

33
34 November 1, 2018 - April 30, 2019 / May 1, 2019 - October 31, 2019
35 Residential Heating (R3)

Line		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
36																
37																
38	Typical Usage (Therms)	62	110	123	148	132	92	668	51	28	16	14	14	21	142	809
39																
40	Winter:															
41	Cust. Chg	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 15.02	$ 90.12								
42	Headblock	$ -	$ -	$ -	$ -	$ -	$ -	$ -								
43	Tailblock	$ 33.94	$ 60.38	$ 67.56	$ 81.22	$ 72.89	$ 50.54	$ 366.53								
44	HB Threshold															
45																
46	Summer:															
47	Cust. Chg								$ 15.02	$ 15.02	$ 15.20	$ 15.20	$ 15.20	$ 15.20	$ 90.84	$ 180.96
48	Headblock								$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
49	Tailblock								$ 27.97	$ 15.32	$ 8.85	$ 7.56	$ 7.65	$ 11.47	$ 78.83	$ 445.35
50	HB Threshold															
51																
52	Total Base Rate Amount	$ 48.96	$ 75.40	$ 82.58	$ 96.24	$ 87.91	$ 65.56	$ 456.65	$ 42.99	$ 30.34	$ 24.05	$ 22.76	$ 22.85	$ 26.67	$ 169.67	$ 626.31
53																
54	COG Rate - (Seasonal)	$ 0.7411	$ 0.7504	$ 0.7504	$ 0.8056	$ 0.8056	$ 0.8056	$ 0.7804	$ 0.4445	$ 0.4445	$ 0.5556	$ 0.5556	$ 0.5556	$ 0.5556	$ 0.4943	$ 0.7299
55	COG amount	$ 45.72	$ 82.35	$ 92.14	$ 118.92	$ 106.72	$ 74.00	$ 519.86	$ 22.59	$ 12.38	$ 8.83	$ 7.54	$ 7.64	$ 11.45	$ 70.43	$ 590.28
56																
57	LDAC	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0660	$ 0.0945	$ 0.0945	$ 0.0945	$ 0.0945	$ 0.0945	$ 0.0945	$ 0.0945	$ 0.0710
58	LDAC amount	$ 4.07	$ 7.24	$ 8.10	$ 9.74	$ 8.74	$ 6.06	$ 43.97	$ 4.80	$ 2.63	$ 1.50	$ 1.29	$ 1.30	$ 1.95	$ 13.47	$ 57.43
59																
60	Total Bill	$ 98.75	$ 165.00	$ 182.82	$ 224.90	$ 203.37	$ 145.62	$ 1,020.47	$ 70.38	$ 45.35	$ 34.38	$ 31.59	$ 31.79	$ 40.07	$ 253.56	$ 1,274.03

61
62 DIFFERENCE:

Line		Nov	Dec	Jan	Feb	Mar	Apr	Winter Nov-Apr	May	Jun	Jul	Aug	Sep	Oct	Summer May-Oct	Total Nov-Oct
63	Total Bill	$ (9.02)	$ (17.21)	$ (19.27)	$ (31.35)	$ (28.12)	$ (19.44)	$ (124.42)	$ (2.33)	$ (1.19)	$ (2.65)	$ (2.27)	$ (2.30)	$ (3.44)	$ (14.19)	$ (138.61)
64	% Change	-9.13%	-10.43%	-10.54%	-13.94%	-13.83%	-13.35%	-12.19%	-3.31%	-2.63%	-7.73%	-7.18%	-7.23%	-8.59%	-5.60%	-10.88%
65																
66	Base Rate	$ 0.59	$ 0.92	$ 1.00	$ 1.17	$ 1.07	$ 0.80	$ 5.54	$ 0.52	$ 0.37	$ -	$ -	$ -	$ -	$ 0.89	$ 6.43
67	% Change	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	0.00%	0.00%	0.00%	0.00%	0.52%	1.03%
68																
69	COG & LDAC	$ (9.61)	$ (18.12)	$ (20.28)	$ (32.52)	$ (29.19)	$ (20.24)	$ (129.96)	$ (2.85)	$ (1.56)	$ (2.65)	$ (2.27)	$ (2.30)	$ (3.44)	$ (15.07)	$ (145.04)
70	% Change	-19.31%	-20.23%	-20.23%	-25.28%	-25.28%	-25.28%	-23.05%	-10.40%	-10.40%	-25.71%	-25.71%	-25.71%	-25.71%	-17.97%	-22.39%
	check	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ 0.00	$ -	$ -	$ -	$ 0.00	$ 0.00	$ -

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Off Peak 2020 Summer Cost of Gas Filing
Annual Bill Comparisons, May 19 - Oct 19 vs May 20 - Oct 20 - Commercial Rate G-41

November 1, 2019 - April 30, 2020
Commercial Rate (G-41)

		Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr
Typical Usage (Therms)		89	277	504	457	331	297	1,954
Winter:	7/1/2019							
Cust. Chg	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 338.16
Headblock	$ 0.4621	$ 40.99	$ 46.21	$ 46.21	$ 46.21	$ 46.21	$ 46.21	$ 272.04
Tailblock	$ 0.3104	$ -	$ 54.98	$ 125.36	$ 110.70	$ 71.65	$ 61.09	$ 423.78
HB Threshold	100							
Summer:								
Cust. Chg	$ 56.36							
Headblock	$ 0.4621							
Tailblock	$ 0.3104							
HB Threshold	20							
Total Base Rate Amount		$ 97.35	$ 157.55	$ 227.93	$ 213.27	$ 174.22	$ 163.66	$ 1,033.97
COG Rate - (Seasonal)		$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190
COG amount		$ 54.91	$ 171.54	$ 311.89	$ 282.65	$ 204.78	$ 183.73	$ 1,209.50
LDAC		$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478
LDAC amount		$ 4.24	$ 13.26	$ 24.10	$ 21.84	$ 15.82	$ 14.20	$ 93.46
Total Bill		$ 156.50	$ 342.35	$ 563.91	$ 517.76	$ 394.83	$ 361.59	$ 2,336.93

May 1, 2020 - October 31, 2020

	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage (Therms)	153	39	26	34	25	29	306	2,260
Cust. Chg	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 338.16	$ 676.32
Headblock	$ 9.24	$ 9.24	$ 9.24	$ 9.24	$ 9.24	$ 9.24	$ 55.45	$ 327.49
Tailblock	$ 41.20	$ 5.81	$ 1.95	$ 4.21	$ 1.57	$ 2.86	$ 57.61	$ 481.38
Total Base Rate Amount	$ 106.81	$ 71.42	$ 67.55	$ 69.81	$ 67.17	$ 68.46	$ 451.22	$ 1,485.19
COG Rate - (Seasonal)	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.5958
COG amount	$ 68.34	$ 17.33	$ 11.76	$ 15.02	$ 11.21	$ 13.07	$ 136.72	$ 1,346.22
LDAC	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478
LDAC amount	$ 7.31	$ 1.85	$ 1.26	$ 1.61	$ 1.20	$ 1.40	$ 14.62	$ 108.07
Total Bill	$ 182.45	$ 90.59	$ 80.56	$ 86.44	$ 79.59	$ 82.93	$ 602.56	$ 2,939.49

November 1, 2018 - April 30, 2019
Commercial Rate (G-41)

	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr
Typical Usage (Therms)	89	277	504	457	331	297	1,954
Winter:							
Cust. Chg	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 55.68	$ 334.08
Headblock	$ 40.50	$ 45.66	$ 45.66	$ 45.66	$ 45.66	$ 45.66	$ 268.80
Tailblock	$ -	$ 54.33	$ 123.86	$ 109.38	$ 70.80	$ 60.37	$ 418.72
HB Threshold							
Summer:							
Cust. Chg							
Headblock							
Tailblock							
HB Threshold							
Total Base Rate Amount	$ 96.18	$ 155.67	$ 225.20	$ 210.72	$ 172.14	$ 161.71	$ 1,021.60
COG Rate - (Seasonal)	$ 0.7403	$ 0.7403	$ 0.7496	$ 0.6707	$ 0.5204	$ 0.5817	$ 0.6651
COG amount	$ 65.67	$ 205.10	$ 377.89	$ 306.26	$ 172.16	$ 172.66	$ 1,299.59
LDAC	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
LDAC amount	$ 6.71	$ 20.96	$ 38.14	$ 34.57	$ 25.04	$ 22.47	$ 147.91
Total Bill	$ 168.56	$ 381.60	$ 641.04	$ 551.54	$ 369.34	$ 356.84	$ 2,469.11
DIFFERENCE:							
Total Bill	$ (12.06)	$ (39.45)	$ (77.12)	$ (33.78)	$ 25.48	$ 4.75	$ (132.18)
% Change	-7.16%	-10.33%	-12.03%	-6.13%	6.90%	1.33%	-5.35%
Base Rate	$ 1.17	$ 1.89	$ 2.72	$ 2.55	$ 2.08	$ 1.95	$ 12.37
% Change	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%	1.21%
COG & LDAC	$ (13.23)	$ (41.34)	$ (79.85)	$ (36.33)	$ 23.40	$ 2.80	$ (144.55)
% Change	-16.26%	-18.26%	-19.20%	-10.66%	11.87%	1.43%	-9.99%
check	$ -	$ -	$ -	$ -	$ (0.00)	$ (0.00)	

May 1, 2019 - October 31, 2019

	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage (Therms)	153	39	26	34	25	29	306	2,260
Cust. Chg	$ 55.68	$ 55.68	$ 56.36	$ 56.36	$ 56.36	$ 56.36	$ 336.80	$ 670.88
Headblock	$ 9.13	$ 9.13	$ 9.24	$ 9.24	$ 9.24	$ 9.24	$ 55.23	$ 324.03
Tailblock	$ 40.71	$ 5.74	$ 1.95	$ 4.21	$ 1.57	$ 2.86	$ 57.05	$ 475.77
Total Base Rate Amount	$ 105.52	$ 70.56	$ 67.55	$ 69.81	$ 67.17	$ 68.46	$ 449.08	$ 1,470.68
COG Rate - (Seasonal)	$ 0.4417	$ 0.4417	$ 0.5517	$ 0.5517	$ 0.5517	$ 0.5517	$ 0.4826	$ 0.6404
COG amount	$ 67.47	$ 17.11	$ 14.50	$ 18.52	$ 13.83	$ 16.12	$ 147.53	$ 1,447.13
LDAC	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
LDAC amount	$ 11.58	$ 2.93	$ 1.99	$ 2.54	$ 1.90	$ 2.21	$ 23.13	$ 171.05
Total Bill	$ 184.55	$ 90.59	$ 84.03	$ 90.87	$ 82.90	$ 86.79	$ 619.74	$ 3,088.85
Total Bill	$ (2.11)	$ 0.00	$ (3.47)	$ (4.44)	$ (3.31)	$ (3.86)	$ (17.18)	$ (149.37)
% Change	-1.14%	0.00%	-4.13%	-4.88%	-4.00%	-4.45%	-2.77%	-4.84%
Base Rate	$ 1.28	$ 0.86	$ -	$ -	$ -	$ -	$ 2.14	$ 14.51
% Change	1.21%	1.22%	0.00%	0.00%	0.00%	0.00%	0.48%	0.99%
COG & LDAC	$ (3.39)	$ (0.86)	$ (3.47)	$ (4.44)	$ (3.31)	$ (3.86)	$ (19.33)	$ (163.88)
% Change	-4.28%	-4.28%	-21.07%	-21.07%	-21.07%	-21.07%	-11.33%	-10.13%
check	$ 0.00	$ (0.00)	$ 0.00	$ -	$ (0.00)	$ 0.00	$ (0.00)	$ (0.00)

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Off Peak 2020 Summer Cost of Gas Filing

Annual Bill Comparisons, May 19 - Oct 19 vs May 20 - Oct 20 - Commercial Rate G-42

November 1, 2019 - April 30, 2020

C&I High Winter Use Medium G-42

May 1, 2020 - October 31, 2020

	7/1/2019	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
Typical Usage (Therms)		830	2,189	3,708	3,406	2,603	2,395	15,130	1,319	484	285	247	269	340	2,943	18,073
Winter:																
Cust. Chg	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1,014.54								
Headblock	$ 0.4202	$ 348.79	$ 420.20	$ 420.20	$ 420.20	$ 420.20	$ 420.20	$ 2,449.79								
Tailblock	$ 0.2800	$ -	$ 332.62	$ 758.10	$ 673.62	$ 448.79	$ 390.57	$ 2,603.90								
HB Threshold	1,000															
Summer:																
Cust. Chg	$ 169.09								$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1,014.54	$ 2,029.08
Headblock	$ 0.4202								$ 168.08	$ 168.08	$ 119.59	$ 103.61	$ 112.86	$ 143.03	$ 815.24	$ 3,265.04
Tailblock	$ 0.2800								$ 257.32	$ 23.55	$ -	$ -	$ -	$ -	$ 280.87	$ 2,884.77
HB Threshold	400															
Total Base Rate Amount		$ 517.88	$ 922.11	$ 1,347.39	$ 1,262.91	$ 1,038.08	$ 979.86	$ 6,068.23	$ 594.49	$ 360.72	$ 288.68	$ 272.70	$ 281.95	$ 312.12	$ 2,110.65	$ 8,178.88
COG Rate - (Seasonal)		$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.6190	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.4474	$ 0.5911
COG amount		$ 513.81	$ 1,354.77	$ 2,294.95	$ 2,108.18	$ 1,611.14	$ 1,482.44	$ 9,365.29	$ 590.12	$ 216.58	$ 127.33	$ 110.32	$ 120.16	$ 152.29	$ 1,316.80	$ 10,682.09
LDAC		$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478
LDAC amount		$ 39.70	$ 104.68	$ 177.33	$ 162.80	$ 124.49	$ 114.55	$ 723.66	$ 63.09	$ 23.15	$ 13.61	$ 11.79	$ 12.85	$ 16.28	$ 140.78	$ 864.43
Total Bill		$ 1,071.39	$ 2,381.56	$ 3,819.67	$ 3,533.89	$ 2,773.71	$ 2,576.85	$ 16,157.17	$ 1,247.71	$ 600.45	$ 429.61	$ 394.82	$ 414.95	$ 480.69	$ 3,568.23	$ 19,725.40

November 1, 2018 - April 30, 2019

C&I High Winter Use Medium G-42

May 1, 2019 - October 31, 2019

	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
Typical Usage (Therms)	830	2,189	3,708	3,406	2,603	2,395	15,130	1,319	484	285	247	269	340	2,943	18,073
Winter:															
Cust. Chg	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 1,002.36								
Headblock	$ 344.64	$ 415.20	$ 415.20	$ 415.20	$ 415.20	$ 415.20	$ 2,420.84								
Tailblock	$ -	$ 328.78	$ 748.80	$ 665.44	$ 443.34	$ 385.83	$ 2,572.28								
HB Threshold															
Summer:															
Cust. Chg								$ 167.06	$ 167.06	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1,010.48	$ 2,012.84
Headblock								$ 166.08	$ 166.08	$ 119.59	$ 103.61	$ 112.86	$ 143.03	$ 811.24	$ 3,231.88
Tailblock								$ 254.20	$ 23.26	$ -	$ -	$ -	$ -	$ 277.46	$ 2,849.74
HB Threshold															
Total Base Rate Amount	$ 511.70	$ 911.04	$ 1,331.16	$ 1,247.70	$ 1,025.60	$ 968.09	$ 5,995.29	$ 587.34	$ 356.40	$ 288.68	$ 272.70	$ 281.95	$ 312.12	$ 2,099.18	$ 8,094.46
COG Rate - (Seasonal)	$ 0.7403	$ 0.7403	$ 0.7496	$ 0.6707	$ 0.5204	$ 0.5817	$ 0.6640	$ 0.4417	$ 0.4417	$ 0.5517	$ 0.5517	$ 0.5517	$ 0.5517	$ 0.4843	$ 0.6347
COG amount	$ 614.49	$ 1,620.25	$ 2,779.15	$ 2,284.28	$ 1,354.50	$ 1,393.11	$ 10,045.76	$ 582.61	$ 213.82	$ 157.01	$ 136.04	$ 148.17	$ 187.79	$ 1,425.44	$ 11,471.21
LDAC	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
LDAC amount	$ 62.84	$ 165.68	$ 280.66	$ 257.82	$ 197.03	$ 181.29	$ 1,145.32	$ 99.85	$ 36.65	$ 21.54	$ 18.67	$ 20.33	$ 25.77	$ 222.80	$ 1,368.12
Total Bill	$ 1,189.03	$ 2,696.97	$ 4,390.97	$ 3,789.78	$ 2,577.13	$ 2,542.49	$ 17,186.36	$ 1,269.79	$ 606.87	$ 467.23	$ 427.41	$ 450.45	$ 525.68	$ 3,747.43	$ 20,933.79

DIFFERENCE:

	Nov	Dec	Jan	Feb	Mar	Apr	Winter Nov-Apr	May	Jun	Jul	Aug	Sep	Oct	Summer May-Oct	Total Nov-Oct
Total Bill	$ (117.64)	$ (315.41)	$ (571.30)	$ (255.89)	$ 196.58	$ 34.36	$ (1,029.19)	$ (22.09)	$ (6.42)	$ (37.61)	$ (32.59)	$ (35.50)	$ (44.99)	$ (179.19)	$ (1,208.39)
% Change	-9.89%	-11.69%	-13.01%	-6.75%	7.63%	1.35%	-5.99%	-1.74%	-1.06%	-8.05%	-7.63%	-7.88%	-8.56%	-4.78%	-5.77%
Base Rate	$ 6.18	$ 11.07	$ 16.24	$ 15.21	$ 12.48	$ 11.77	$ 72.95	$ 7.15	$ 4.32	$ -	$ -	$ -	$ -	$ 11.47	$ 84.42
% Change	1.21%	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.21%	0.00%	0.00%	0.00%	0.00%	0.55%	1.04%
COG & LDAC	$ (123.82)	$ (326.48)	$ (587.53)	$ (271.00)	$ 184.10	$ 22.58	$ (1,102.14)	$ (29.24)	$ (10.73)	$ (37.61)	$ (32.59)	$ (35.50)	$ (44.99)	$ (190.67)	$ (1,292.81)
% Change	-18.29%	-18.28%	-19.20%	-10.66%	11.87%	1.43%	-9.85%	-4.28%	-4.28%	-21.07%	-21.07%	-21.07%	-21.07%	-11.57%	-10.07%
check	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

230-R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

2 Off Peak 2020 Summer Cost of Gas Filing
4 Annual Bill Comparisons, May 19 - Oct 19 vs May 20 - Oct 20 - Commercial Rate G-62

7 November 1, 2019 - April 30, 2020 / May 1, 2020 - October 31, 2020
8 Commercial Rate (G-62)

#			Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	Winter Nov-Apr	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Summer May-Oct	Total Nov-Oct
11	Typical Usage (Therms)		1 352	1 866	2,284	2,160	1 886	1 760	11 308	1 497	1 128	1 032	1 025	1 050	897	6,628	17 935
13	Winter:	7/1/2019															
14	Cust. Chg	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1 014.54								
15	Headblock	$ 0.2392	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 239.20	$ 1 435.20								
16	Tailblock	$ 0.1593	$ 56.03	$ 137.94	$ 204.48	$ 184.73	$ 141.07	$ 121.08	$ 845.32								
17	HB Threshold	1 000															
19	Summer:																
20	Cust. Chg	$ 169.09								$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1,014.54	$ 2,029.08
21	Headblock	$ 0.1733								$ 173.30	$ 173.30	$ 173.30	$ 173.30	$ 173.30	$ 155.41	$ 1,021.91	$ 2,457.11
22	Tailblock	$ 0.0985								$ 48.96	$ 12.58	$ 3.15	$ 2.47	$ 4.90	$ -	$ 72.06	$ 917.38
23	HB Threshold	1 000															
25	Total Base Rate Amount		$ 464.32	$ 546.23	$ 612.77	$ 593.02	$ 549.36	$ 529.37	$ 3 295.06	$ 391.35	$ 354.97	$ 345.54	$ 344.86	$ 347.29	$ 324.50	$ 2,108.51	$ 5 403.57
27	COG Rate - (Seasonal)		$ 0.6258	$ 0.6258	$ 0.6258	$ 0.6258	$ 0.6258	$ 0.6258	$ 0.6258	$ 0.4591	$ 0.4591	$ 0.4591	$ 0.4591	$ 0.4591	$ 0.4591	$ 0.4591	$ 0.5642
28	COG amount		$ 845.92	$ 1 167.69	$ 1 429.07	$ 1,351.49	$ 1 179.97	$ 1 101.44	$ 7,075.59	$ 687.28	$ 517.74	$ 473.77	$ 470.60	$ 481.96	$ 411.71	$ 3,043.06	$ 10,118.66
30	LDAC		$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478	$ 0.0478
31	LDAC amount		$ 64.65	$ 89.25	$ 109.22	$ 103.30	$ 90.19	$ 84.16	$ 540.79	$ 71.60	$ 53.94	$ 49.36	$ 49.03	$ 50.21	$ 42.89	$ 317.03	$ 857.83
33	Total Bill		$ 1,374.89	$ 1,803.17	$ 2,151.06	$ 2,047.81	$ 1,819.51	$ 1,715.00	$ 10,911.44	$ 1,150.22	$ 926.66	$ 868.66	$ 864.48	$ 879.47	$ 779.11	$ 5,468.61	$ 16,380.05

35 November 1, 2018 - April 30, 2019 / May 1, 2019 - October 31, 2019
36 Commercial Rate (G-62)

#		Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	Winter Nov-Apr	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Summer May-Oct	Total Nov-Oct
39	Typical Usage (Therms)	1,352	1,866	2,284	2,160	1,886	1 760	11 308	1 497	1 128	1,032	1,025	1,050	897	6,628	17 935
41	Winter:															
42	Cust. Chg	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 167.06	$ 1,002.36								
43	Headblock	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 236.30	$ 1 417.80								
44	Tailblock	$ 55.36	$ 136.29	$ 202.04	$ 182.52	$ 139.38	$ 119.63	$ 835.24								
45	HB Threshold															
47	Summer:															
48	Cust. Chg								$ 167.06	$ 167.06	$ 169.09	$ 169.09	$ 169.09	$ 169.09	$ 1 010.48	$ 2,012.84
49	Headblock								$ 171.20	$ 171.20	$ 173.30	$ 173.30	$ 173.30	$ 155.41	$ 1 017.71	$ 2,435.51
50	Tailblock								$ 48.96	$ 12.58	$ 3.15	$ 2.47	$ 4.90	$ -	$ 72.06	$ 907.30
51	HB Threshold															
53	Total Base Rate Amount	$ 458.72	$ 539.65	$ 605.40	$ 585.88	$ 542.74	$ 522.99	$ 3 255.40	$ 387.22	$ 350.84	$ 345.54	$ 344.86	$ 347.29	$ 324.50	$ 2,100.25	$ 5 355.65
55	COG Rate - (Seasonal)	$ 0.7456	$ 0.7456	$ 0.7549	$ 0.6760	$ 0.5257	$ 0.5870	$ 0.6728	$ 0.4506	$ 0.4506	$ 0.5633	$ 0.5633	$ 0.5633	$ 0.5633	$ 0.5187	$ 0.6159
56	COG amount	$ 1,007.86	$ 1 391.23	$ 1 723.88	$ 1 459.91	$ 991.23	$ 1 033.15	$ 7 607.28	$ 674.55	$ 508.16	$ 581.30	$ 577.41	$ 591.35	$ 505.16	$ 3,437.93	$ 11 045.19
58	LDAC	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757	$ 0.0757
59	LDAC amount	$ 102.33	$ 141.25	$ 172.87	$ 163.48	$ 142.74	$ 133.24	$ 855.90	$ 113.32	$ 85.37	$ 78.12	$ 77.60	$ 79.47	$ 67.89	$ 501.76	$ 1 357.66
61	Total Bill	$ 1,568.91	$ 2,072.13	$ 2,502.15	$ 2,209.27	$ 1,676.71	$ 1,689.38	$ 11,718.58	$ 1,175.09	$ 944.37	$ 1,004.95	$ 999.88	$ 1,018.11	$ 897.55	$ 6,039.94	$ 17,758.50
63	DIFFERENCE:															
64	Total Bill	$ (194.01)	$ (268.96)	$ (351.09)	$ (161.47)	$ 142.81	$ 25.61	$ (807.11)	$ (24.87)	$ (17.71)	$ (136.29)	$ (135.38)	$ (138.65)	$ (118.44)	$ (571.33)	$ (1,378.45)
65	% Change	-12.37%	-12.98%	-14.03%	-7.31%	8.52%	1.52%	-6.89%	-2.12%	-1.88%	-13.56%	-13.54%	-13.62%	-13.20%	-9.46%	-7.76%
67	Base Rate	$ 5.60	$ 6.58	$ 7.37	$ 7.13	$ 6.61	$ 6.37	$ 39.66	$ 4.13	$ 4.13	$ -	$ -	$ -	$ -	$ 8.26	$ 47.92
68	% Change	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.22%	1.07%	1.18%	0.00%	0.00%	0.00%	0.00%	0.39%	0.89%
70	COG & LDAC	$ (199.61)	$ (275.54)	$ (358.45)	$ (168.60)	$ 136.19	$ 19.24	$ (846.79)	$ (29.00)	$ (21.84)	$ (136.29)	$ (135.38)	$ (138.65)	$ (118.44)	$ (579.59)	$ (1 426.37)
71	% Change	-17.98%	-17.98%	-18.90%	-10.39%	12.01%	1.65%	-10.01%	-3.68%	-3.68%	-20.67%	-20.67%	-20.67%	-20.67%	-14.71%	-11.50%
	check	$ -	$ -	$ -	$ 0.00	$ -	$ (0.00)	$ (0.00)	$ (0.00)	$ (0.00)	$ -	$ -	$ -	$ -	$ -	$ (0.00)

231-R

Liberty Utilities (EnergyNorth Natural Gas) Corp.

Off Peak 2020 Summer Cost of Gas Filing

Residential Heating

	Summer 2019	Summer 2020
Customer Charge	$ 15.20	$ 15.20
First 20 Therms	$ 0.5569	$ 0.5569
Excess 20 Therms	$ 0.5569	$ 0.5569
LDAC	$ 0.0945	$ 0.0310
COG	$ 0.4943	$ 0.4520
Total Adjust	$ 0.5888	$ 0.4830

		Summer 2019 COG @	Summer 2020 Cog @
		$ 0.5888	$ 0.4830
Cooking alone	5	$ 2.94	$ 20.40
	10	$ 5.89	$ 25.60
	20	$ 11.78	$ 36.00
Water Heating alone	30	$ 17.66	$ 46.40
	45	$ 26.49	$ 61.99
	50	$ 29.44	$ 67.19
Heating Alone	80	$ 44.16	$ 93.19
	125	$ 78.31	$ 153.50
	150	$ 88.31	$ 171.18
	200	$ 117.75	$ 223.17

Total $ Impact	Total % Impact	Base Rate $ Impact	Base Rate % Impact	COG $ Impact	COG % Impact	LDAC $ Impact	LDAC % Impact
$ (0.11)	-18%						
$ 17.46	593%	$ 17.98	611%	$ (0.21)	-1%	$ (0.32)	-11%
$ 19.71	335%	$ 20.77	353%	$ (0.42)	-2%	$ (0.64)	-11%
$ 24.22	206%	$ 26.34	224%	$ (0.85)	-2%	$ (1.27)	-11%
$ 28.73	163%	$ 31.91	181%	$ (1.27)	-3%	$ (1.91)	-11%
$ 35.50	134%	$ 40.26	152%	$ (1.90)	-3%	$ (2.86)	-11%
$ 37.76	128%	$ 43.05	146%	$ (2.11)	-3%	$ (3.18)	-11%
$ 49.03	111%	$ 56.97	129%	$ (3.17)	-3%	$ (4.76)	-11%
$ 75.20	96%	$ 89.27	114%	$ (5.62)	-4%	$ (8.45)	-11%
$ 82.87	94%	$ 98.74	112%	$ (6.34)	-4%	$ (9.53)	-11%
$ 105.42	90%	$ 126.58	107%	$ (8.45)	-4%	$ (12.71)	-11%

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