NHPUC 16NOV 18PH3:59



Catherine A. McNamara Rates II Analyst, Rates & Regulatory Affairs O: 603-216-3537 E:Catherine.McNamara@LibertyUtilities.com

November 16, 2018

Via Hand Delivery and Electronic Mail

Debra Howland Executive Director New Hampshire Public Utilities Commission 21 South Fruit Street, Suite 10 Concord, NH 03301-2429

Re:

DG 18-137 Liberty Utilities (EnergyNorth Natural Gas) Corp. d/b/a Liberty Utilities

Winter 2018/2019 Cost of Gas Filing and Summer 2019 Cost of Gas Filing

Compliance Tariff Filing

Dear Ms. Howland:

On behalf of Liberty Utilities (EnergyNorth Natural Gas) Corp. and in compliance with NHPUC Order No. 26,188 in Docket No. DG 18-137, I enclose an original and two copies of the following tariff pages of NHPUC No. 10 – Gas, Tariff for Gas Service:

Eighth Revised Page 1	Check Sheet
Seventh Revised Page 3	Check Sheet (Cont'd)
Sixth Revised Page 4	Check Sheet (Cont'd)
First Revised Page 5	Check Sheet (Cont'd)
Sixth Revised Page 84	Firm Rate Schedules
Sixth Revised Page 86	Firm Rate Schedules
First Revised Page 88	Anticipated Summer Cost of Gas
Fifth Revised Page 89	Calculation of Firm Sales Cost of Gas Rate
First Revised Page 91	Calculation of Fixed Winter Cost of Gas Rate
First Revised Page 92	Calculation of Firm Sales Winter Cost of Gas rate
First Revised Page 94	Firm Transportation Cost of Gas Rate
First Revised Page 147	Attachment B Schedule of Administrative Fees and Charges
First Revised Page 148	Attachment C Capacity Allocators

Thank you for your attention to this matter. Please do not hesitate to call if you have any questions.

Catherine A. McNamara

Enclosure

President

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22 FIRM RATE SCHEDULES EXCLUDING KEENE CUSTOMERS

Rates effective November 1, 2018 - April 30, 2019 Rates Effective May 1, 2019 - October 31, 2019

Winter Period Summer Period

	Winter Period			Summer Period						
	Delivery <u>Charge</u>	Cost of Gas Rate Page 92	LDAC Page 97	Total <u>Rate</u>	Delivery <u>Charge</u>	Cost of Gas Rate Page 89	LDAC Page 97	Total <u>Rate</u>		
Residential Non Heating - R-1 Customer Charge per Month per Meter All therms	\$ 15.02 \$0.3741	\$0.7411	\$0.0660	\$15.02 \$1.1812	\$ 15.02 \$ 0.3741	\$0.4445	\$0.0660	\$ 15.02 \$ 0.8846		
Residential Heating - R-3 Customer Charge per Month per Meter All therms	\$ 15.02 \$0.5502	\$0.7411	\$0.0660	\$15.02 \$ 1.3573	\$ 15.02 \$ 0.5502	\$0.4445	\$0.0660	\$ 15.02 \$ 1.0607		
Residential Heating - R-4 Customer Charge per Month per Meter All therms	\$ 6.01 \$0.2201	\$0.7411	\$0.0660	\$6.01 \$ 1.0272	\$ 6.01 \$0.2201	\$0.4445	\$0.0660	\$ 6.0065 \$ 0.7306		
Commercial/Industrial - G-41 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$ 55.68 100 therms \$0.4566 \$0.3067	\$ 0.7403	\$ 0.0757 \$ 0.0757		\$ 55.68 20 therms \$ 0.4566 \$ 0.3067	\$ 0.4417		\$ 55.68 \$ 0.9740 \$ 0.8241		
Commercial/Industrial - G-42 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at	\$ 167.06 1000 therms \$0.4152	\$ 0.7403	\$ 0.0757	\$167.06 \$ 1.2312	\$ 167.06 400 therms \$ 0.4152	\$ 0.4417	\$ 0.0757	\$ 167.06 \$ 0.9326		
All therms over the first block per month at Commercial/Industrial - G-43 Customer Charge per Month per Meter All therms over the first block per month at	\$0.2766 \$ 716.95 \$0.2552	\$ 0.7403	\$ 0.0757 \$ 0.0757	\$ 1.0926 \$716.95 \$1.0712	\$ 0.2766 \$ 716.95 \$ 0.1167	\$ 0.4417 \$ 0.4417		\$ 716.95		
Commercial/Industrial - G-51 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$ 55.68 100 therms \$0.2752 \$0.1789	\$ 0.7456 \$ 0.7456	\$ 0.0757 \$ 0.0757		\$ 55.68 100 therms \$ 0.2752 \$ 0.1789		\$ 0.0757 \$ 0.0757	\$ 55.68 \$ 0.8015 \$ 0.7052		
Commercial/Industrial - G-52 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$ 167.06 1000 therms \$0.2363 \$0.1574	\$ 0.7456	\$ 0.0757 \$ 0.0757			\$ 0.4506 \$ 0.4506		\$ 167.06 \$ 0.6975 \$ 0.6236		
Commercial/Industrial - G-53 Customer Charge per Month per Meter All therms over the first block per month at	\$ 737.84 \$0.1652	\$ 0.7456	\$ 0.0757	\$737.84 \$0.9865	\$ 737.84 \$ 0.0792	\$ 0.4506	\$ 0.0757	\$ 737.84 \$ 0.6055		
Commercial/Industrial - G-54 Customer Charge per Month per Meter All therms over the first block per month at	\$ 737.84 \$0.0630	\$ 0.7456	\$ 0.0757	\$737.84 \$0.8843	\$ 737.84 \$ 0.0342	\$ 0.4506	\$ 0.0757	\$ 737.84 \$ 0.5605		

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24 FIRM RATE SCHEDULES EXCLUDING KEENE CUSTOMERS – MANAGED EXPANSION PROGRAM

Rates effective November 1, 2018 - April 30, 2019 Rates Effective May 1, 2019 - October 31, 2019

Winter Period Summer Period

	Winte			Winter	er Period				Summer Period						
	Deli	very	_	cost of	L	.DAC		Total	D	elivery		Cost of		LDAC	Total
	Cha	arge	Pa	ge 92	Pag	<u>je 97</u>		Rate	<u>c</u>	Charge	<u>Pa</u>	ge 89	<u>Pa</u>	ge 97	Rate
Residential Non Heating - R-5 Customer Charge per Month per Meter All therms	\$	19.53 0.4863	9	\$0.7411	\$	0.0660	9	\$19.53 \$1.2934	\$ \$	19.53 0.4863	5	\$0.4445	;	\$0.0660	\$ 19.53 \$ 0.9968
Residential Heating - R-6 Customer Charge per Month per Meter All therms	\$	19.53 0.7153	\$	\$0.7411	\$	0.0660	\$	\$19.53 1.5224	\$	19.53 0.7153	(\$0.4445	;	\$0.0660	\$ 19.53 \$ 1.2258
Residential Heating - R-7 Customer Charge per Month per Meter All therms	\$	7.81 0.2861	Ş	\$0.7411	\$	0.0660	\$	\$7.81 1.0932	\$	7.81 \$0.2861	Ş	\$0.4445	;	\$0.0660	\$ 7.81 \$ 0.7966
Commercial/Industrial - G-44 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$	72.38 nerms 0.5936 0.3987		0.7403 0.7403		0.0757 0.0757		\$72.38 1.4096 1.2147	\$ 20 \$ \$	72.38 therms 0.5936 0.3987		0.4417 0.4417		0.0757 0.0757	\$ 72.38 \$ 1.1110 \$ 0.9161
Commercial/Industrial - G-45 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at	1000	217.18 therms 0.5398	\$	0.7403	\$	0.0757		\$217.18 1.3558	\$ 400 \$	217.18 0 therms 0.5398	\$	0.4417	\$	0.0757	\$ 217.18 \$ 1.0572
All therms over the first block per month at Commercial/Industrial - G-46 Customer Charge per Month per Meter All therms over the first block per month at	\$	0.3596 932.04 0.3318		0.74030.7403			Ş	1.1756 \$932.04 \$1.1478	\$ \$ \$	0.3596 932.04 0.1517				0.0757	\$ 0.8770 \$ 932.04 \$ 0.6691
Commercial/Industrial - G-55 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	\$	72.38 nerms 0.3578 0.2326		0.7456 0.7456		0.0757 0.0757		\$72.38 1.1791 1.0539	\$ 100 \$ \$	72.38 0 therms 0.3578 0.2326		0.4506 0.4506		0.0757 0.0757	\$ 72.38 \$ 0.8841 \$ 0.7589
Commercial/Industrial - G-56 Customer Charge per Month per Meter Size of the first block Therms in the first block per month at All therms over the first block per month at	1000	217.18 therms 0.3072 0.2046		0.7456 0.7456		0.0757 0.0757	\$	\$217.18 1.1285 1.0259	\$ 100 \$ \$	217.18 00 therms 0.2226 0.1265	\$	0.4506 0.4506		0.0757 0.0757	\$ 217.18 \$ 0.7489 \$ 0.6528
Commercial/Industrial - G-57 Customer Charge per Month per Meter All therms over the first block per month at		959.19 0.2148	\$	0.7456	\$	0.0757		\$959.19 \$1.0361	\$ \$	959.19 0.1030	\$	0.4506	\$	0.0757	\$ 959.19 \$ 0.6293
Commercial/Industrial - G-58 Customer Charge per Month per Meter All therms over the first block per month at		959.19 0.0819	\$	0.7456	\$	0.0757		\$959.19 \$0.9032	\$ \$	959.19 0.0445	\$	0.4506	\$	0.0757	\$ 959.19 \$ 0.5708

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Susan L. Fleck President

26 ANTCIPATED SUMMER PERIOD COST OF GAS EXCLUDING KEENE CUSTOMERS OR GAS LIGHTING

Anticipated Cost of Gas

PERIOD COVERED: SUMMER PERIOD, MAY 1, 2019 THROUGH OCTOBER 31, 2019 (REFER TO TEXT IN SECTION 16 COST OF GAS CLAUSE)

(Col 1)	(0	Col 2)	(Col 3)
ANTICIPATED DIRECT COST OF GAS			
Purchased Gas:			
Demand Costs:		4,372,669	
Supply Costs:		3,602,943	
Storage Gas:			
Demand, Capacity:	\$	-	
Commodity Costs:		-	
Produced Gas:	\$	27,091	
Hedged Contract (Savings)/Loss	\$		
Unadjusted Anticipated Cost of Gas			\$ 8,002,703
Adjustments:			
Prior Period (Over)/Under Recovery (as of April 30, 2018)	\$	617,043	
Interest		41,437	
Prior Period Adjustments		-	
Broker Revenues		-	
Refunds from Suppliers		-	
Fuel Financing		-	
Transportation CGA Revenues		-	
Interruptible Sales Margin		-	
Capacity Release Margin		-	
Hedging Costs		-	
Fixed Price Option Administrative Costs		-	050 400
Total Adjustments			658,480
Total Anticipated Direct Cost of Gas			\$ 8,661,183
Anticipated Indirect Cost of Gas			
Working Capital:			
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$	8,002,703	
Working Capital Rate - Lead Lag Days / 365		0.0391	
Prime Rate		5.00%	
Working Capital Percentage		0.196%	
Working Capital	\$	15,647	
Plus: Working Capital Reconciliation (Acct 1163-1424)		(4,953)	
Total Working Capital Allowance			\$ 10,694
Bad Debt:			
Total Unadjusted Anticipated Cost of Gas 05/01/19 - 10/31/19)	\$	8,002,703	
Less: Refunds	v	-	
Plus: Total Working Capital		10,694	
Plus: Prior Period (Over)/Under Recovery		617,043	
Subtotal	\$	8,630,440	
Ded Debt Descritors		4.750/	
Bad Debt Percentage		1.75%	
Bad Debt Allowance	\$	150,685	
Plus: Bad Debt Reconciliation (Acct 1163-1754)		18,034	
Total Bad Debt Allowance			168,720
Production and Storage Capacity			-
Miscellaneous Overhead (05/01/19 - 10/31/19)	\$	13,170	
Times Summer Sales	Ф	20,186	
Divided by Total Sales		106,815	
•		100,010	0.400
Miscellaneous Overhead			2,489
Total Anticipated Indirect Cost of Gas			\$ 181,903
Total Cost of Gas			\$ 8,843,085

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27 CALCULATION OF FIRM SALES SUMMER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

CALCULATION OF FIRM SALES COST OF GAS RATE PERIOD COVERED: SUMMER PERIOD, MAY 1, 2019 THROUGH OCTOBER 31, 2019 (Refer to Text in Section 16 Cost of Gas Clause)

(Col 1)				(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas Projected Prorated Sales (05/01/19 - 10/31/19)			\$	8,661,183 19,890,267			
Direct Cost of Gas Rate					\$	0.4354	per therm
Demand Cost of Gas Rate Commodity Cost of Gas Rate			\$	4,372,669 3,630,034	\$	0.1825	per therm per therm
Adjustment Cost of Gas Rate				658,480	\$		per therm
Total Direct Cost of Gas Rate			\$	8,661,183	\$	0.4354	per therm
Total Anticipated Indirect Cost of Gas Projected Prorated Sales (05/01/19 - 10/31/19)			\$	181,903 19,890,267	•	0.0004	
Indirect Cost of Gas					\$	0.0091	per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 05/01/19					\$	0.4445	per therm
RESIDENTIAL COST OF GAS RATE - 05/01/2019			COGs		\$	0.4445	/therm
		Maximum	(COG	+ 25%)	\$	0.5556	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/2019			COGsl		\$	0.4506	/therm
Average Demand Cost of Gas Rate Effective 05/01/19 Times: Low Winter Use Ratio (Summer) Times: Correction Factor Adjusted Demand Cost of Gas Rate Commodity Cost of Gas Rate Adjustment Cost of Gas Rate Indirect Cost of Gas Rate Adjusted Com/Ind Low Winter Use Cost of Gas Rate	\$ 0.2198 1.0335 0.9943 \$ 0.2259 \$ 0.1825 \$ 0.0331 \$ 0.0091 \$ 0.4506	Maximum	(COG	+ 25%)	\$	0.5633	
					_		
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/2019			COGsl	1	\$	0.4417	/therm

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Susan L. Fleck President

29 CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

II. RATE SCHEDULES

CALCULATION OF FIXED WINTER PERIOD COST OF GAS RATE PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019 (Refer to Text in Section 17(A) Fixed Price Option Program)

(Col 1)		(Col 2)	((Col 3)	
Total Anticipated Direct Cost of Gas Projected Prorated Sales (11/01/18 - 04/30/19)	\$	61,003,856 86,451,254			
Direct Cost of Gas Rate			\$	0.7056	per therm
Demand Cost of Gas Rate Commodity Cost of Gas Rate	\$	11,230,946 49,116,221			per therm per therm
Adjustment Cost of Gas Rate		656,690	\$	0.0076	per therm
Total Direct Cost of Gas Rate	\$	61,003,856	\$	0.7056	per therm
Total Anticipated Indirect Cost of Gas Projected Prorated Sales (11/01/18 - 04/30/19)	\$	3,070,244 86,451,254			
Indirect Cost of Gas			\$	0.0355	per therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/18)			\$	0.7411	
Calculation of FPO					
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE (11/01/18)			\$	0.7411	
FPO Risk Premium			\$	0.0200	
TOTAL PERIOD FIXED PRICE OPTION COST OF GAS RATE EFFECTIVE (11/01/18)			\$	0.7611	
RESIDENTIAL COST OF GAS RATE - 11/01/18	CC	Gwr	\$	0.7611	/therm

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Susan L. Fleck

30 CALCULATION OF FIRM SALES WINTER PERIOD COST OF GAS RATE EXCLUDING KEENE CUSTOMERS

CALCULATION OF FIRM SALES COST OF GAS RATE PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019 (Refer to Text in Section 16 Cost of Gas Clause)

RESIDENTIAL COST OF GAS RATE - 11/01/18	COG	iwr	\$	0.7411	/therm
TOTAL PERIOD AVERAGE COST OF GAS EFFECTIVE 11/01/17			\$	0.7411	per therm
Indirect Cost of Gas			\$	0.0355	per therm
Projected Prorated Sales (11/01/18 - 04/30/19)		86,451,254			
Total Anticipated Indirect Cost of Gas	\$	3,070,244			
Total Direct Cost of Gas Rate	\$	61,003,856	\$	0.7056	per therm
Adjustment Cost of Gas Rate		656,690	\$	0.0076	per therm
Commodity Cost of Gas Rate		49,116,221	\$	0.5681	per therm
Demand Cost of Gas Rate	\$	11,230,946	\$	0.1299	per therm
Direct Cost of Gas Rate			\$	0.7056	per therm
Projected Prorated Sales (11/01/18 - 04/30/19)		86,451,254			
Total Anticipated Direct Cost of Gas	\$	61,003,856			
(Col 1)		(Col 2)	((Col 3)	

Maximum (COG + 25%) \$ 0.9264

I LOW WINTER USE COST OF GAS RATE - 11/01/18		COGwI	\$ 0.7456 /therm
Average Demand Cost of Gas Rate Effective 11/01/18	\$ 0.1299		
Times: Low Winter Use Ratio (Winter)	1.0335	Maximum (COG + 25%)	\$ 0.9320
Times: Correction Factor	1.0011		
Adjusted Demand Cost of Gas Rate	\$ 0.1344		
Commodity Cost of Gas Rate	\$ 0.5681		
Adjustment Cost of Gas Rate	\$ 0.0076		
Indirect Cost of Gas Rate	\$ 0.0355		
Adjusted C&I Low Winter Use Cost of Gas Rate	\$ 0.7456		

C&I HIGH WINTER USE COST OF GAS RATE - 11/01/18 COGwh	\$ 0.7403 /therm
---	------------------

Average Demand Cost of Gas Rate Effective 11/01/18	\$ 0.1299			
Times: High Winter Use Ratio (Winter)	0.9930	Maximum (COG + 25%)	\$ 0.925	54
Times: Correction Factor	1.0011			
Adjusted Demand Cost of Gas Rate	\$ 0.1291			
Commodity Cost of Gas Rate	\$ 0.5681			
Adjustment Cost of Gas Rate	\$ 0.0076			
Indirect Cost of Gas Rate	\$ 0.0355			
Adjusted C&I High Winter Use Cost of Gas Rate	\$ 0.7403			

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32 FIRM TRANSPORTATION COST OF GAS RATE

II. RATE SCHEDULES

Calculation of Firm Transportation Cost of Gas Rate
PERIOD COVERED: WINTER PERIOD, NOVEMBER 1, 2018 THROUGH APRIL 30, 2019
(Refer to text in Section 16(Q) Firm Transportation Cost of Gas Clause)

(Col 1)	(Col 2)		(Col 3)		(Col 4)
ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES:						
PROPANE	\$ 1,617,071					
LNG	1,055,140					
TOTAL ANTICIPATED COST OF SUPPLEMENTAL GAS SUPPLIES ESTIMATED PERCENTAGE USED FOR PRESSURE SUPPORT PURPOSES ESTIMATED COST OF LIQUIDS USED FOR PRESSURE SUPPORT PURPOSES	2,672,211 <u>8.7%</u> \$ 232,482					
PROJECTED FIRM THROUGHPUT (THERMS): FIRM SALES FIRM TRANSPORTATION SUBJECT TO FTCG TOTAL FIRM THROUGHPUT SUBJECT TO COST OF GAS CHARGE	86,628,921 50,744,418 137,373,339		63.1% 36.9% 100.0%			
TRANSPORTATION SHARE OF SUPPLEMENTAL GAS SUPPLIES	36.9%	х	\$232,482	=	\$	85,877
PRIOR (OVER) OR UNDER COLLECTION						(59,496)
NET AMOUNT TO COLLECT FROM (RETURNED TO) TRANSPORTATION CUSTOMERS					\$	26,381
PROJECTED FIRM TRANSPORTATION THROUGHPUT					50,	744,418
FIRM TRANSPORTATION COST OF GAS						\$0.0005

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Susan L. Fleck

2 ATTACHMENT B Schedule of Administrative Fees and Charges

I. Supplier Balancing Charge: \$0.19 per MMBtu of Daily Imbalance Volumes

II. Capacity Mitigation Fee 15% of the Proceeds from the Marketing of Capacity for Mitigation.

III. Peaking Demand Charge \$ 20.41 MMBTU of Peak MDQ

IV. Company Allowance Calculation (per Schedule 25)

173,718,990 Total Sendout - Therms Jul -2016 - Jun-2017 170,585,367 Total Throughput - Therms Jul-2016 - Jun-2017

3,133,623 Variance (Sendout - Throughput)

Company Allowance Percentage 2017-18 1.8% Variance / Total Sendout

ISSUED: November 16, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck
EFFECTIVE: November 01, 2018

ISSUED BY: /s/Susan L. Fleck
Susan L. Fleck
TITLE: President

3 ATTACHMENT C Capacity Allocators

Rate Class		Pipeline	Storage	Peaking	Total
	Low Annual/High				
G-41	Winter Use	47.2%	17.5%	35.3%	100.0%
	Low Annual/Low				
G-51	Winter Use	59.0%	13.6%	27.4%	100.0%
	Medium Annual / High				
G-42	Winter	47.2%	17.5%	35.3%	100.0%
	High Annual / Low				
G-52	Winter Use	59.0%	13.6%	27.4%	100.0%
	High Annual / High				
G-43	Winter	47.2%	17.5%	35.3%	100.0%
	High Annual / Load				
G-53	Factor < 90%	59.0%	13.6%	27.4%	100.0%
	High Annual / Load				
G-54	Factor < 90%	59.0%	13.6%	27.4%	100.0%

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