CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2020 - October 31, 2020

• •	,		
(Col 1)	(Col 2)	(Col 3)	
Total Anticipated Direct Cost of Gas	\$2,642,482		
Projected Prorated Sales (05/01/20 - 10/31/20)	8,708,801	#0.2024	
Direct Cost of Gas Rate		\$0.3034	per therm
Demand Cost of Gas Rate	\$725,806	\$0.0833	per therm
Commodity Cost of Gas Rate Total Direct Cost of Gas Rate	\$ <u>1,916,677</u> \$2,642,482	\$ <u>0.2201</u> \$0.3034	per therm per therm
Total Direct Cost of Gas Nate	\$2,042,402	φυ.3034	per memi
Total Anticipated Indirect Cost of Gas	(\$231,620)		
Projected Prorated Sales (05/01/20 - 10/31/20) Indirect Cost of Gas	8,708,801	(\$0.0266)	per therm
		(, ,	•
TOTAL PERIOD AVERAGE COST OF GAS		\$0.2768	per therm
Period ending under-collection to be recovered	(\$341,893)		
Projected sales (05/01/20 - 10/31/20)	8,708,801		
Per unit change in Cost of Gas (05/01/20 - 10/31/20)	(\$0.0393)		
RESIDENTIAL COST OF GAS RATE -05/01/20	COGwr	\$0.2375	per therm
REGIDENTIAL GOOT OF GAO NATE -00/01/20	Maximum (COG+25%)	\$0.3460	per trierin
	maximum (COG+25%)	\$0.3460	
INITIAL RESIDENTIAL COST OF GAS RATE - 05/01/20		\$0.2768	
CHANGE IN PER UNIT COST		(\$0.0393)	
REVISED RESIDENTIAL COST OF GAS RATE - 05/01/20		\$0.2375	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/20	COGwl	\$0.2050	per therm
	Maximum (COG+25%)	\$0.3054	
INITIAL COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/20 CHANGE IN PER UNIT COST		\$0.2443 (\$0.0393)	
REVISED COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/20		\$0.2050	
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/20	COGwh	\$0.2723	per therm
	Maximum (COG+25%)	\$0.3895	
INITIAL COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/20		\$0.3116	
CHANGE IN PER UNIT COST REVISED COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/20		(\$0.0393) \$0.2723	
Issued: April 23, 2020	Issued By:	Laurence I	M. Brock
Effective Date: May 1, 2020		Senior Vice	President
Authorized by NHPUC Order No. 26,303, in Docket No. DG 19-154, dated October	29, 2019.		

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER SEASON RESIDENTIAL RATES

	Summer Season		Total	Total Bille	d Rates
	May 2020 - October 2020	Tariff	Delivery Rates	Tariff Rates	s, LDAC
		Rates	(Includes LDAC)	Plus Cost	of Gas
Residential Heating	Tariff Rate R 5:				
	Monthly Customer Charge	\$22.20	\$22.20		\$22.20
	First 50 therms	\$0.6099	\$0.6805	\$0.9180	
	All usage over 50 therms	\$0.6099	\$0.6805	\$0.9180	
	LDAC	\$0.0706			
	Gas Cost Adjustment:				
	Cost of Gas	\$0.2375			
Residential Heating	Tariff Rate R 10:				
Low Income	Monthly Customer Charge	\$8.88	\$8.88		\$8.88
	First 50 therms	\$0.2440	\$0.3146	\$0.5521	
	All usage over 50 therms	\$0.2440	\$0.3146	\$0.5521	
	LDAC	\$0.0706			
	Gas Cost Adjustment:				
	Cost of Gas	\$0.2375			
Residential Non-Heating	Tariff Rate R 6:				
	Monthly Customer Charge	\$22.20	\$22.20		\$22.20
	First 10 therms	\$0.6470	\$0.7176	\$0.9551	
	All usage over 10 therms	\$0.6470	\$0.7176	\$0.9551	
	LDAC	\$0.0706			
	Gas Cost Adjustment:				
	Cost of Gas	\$0.2375			

Issued: April 23, 2020

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Issued by:

Laurence M. Brock

Title: Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER SEASON C&I RATES

	Summer Season May 2020 - October 2020	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	Tariff Rate G 40:			
	Monthly Customer Charge	\$75.09	\$75.09	\$75.09
	First 75 therms	\$0.1865	\$0.2224	\$0.4947
	All usage over 75 therms	\$0.1865	\$0.2224	\$0.4947
	LDAC	\$0.0359		
	Gas Cost Adjustment:	40.0700		
	Cost of Gas	\$0.2723		
C&I Low Annual/Low Winter	Tariff Rate G 50:			
	Monthly Customer Charge	\$75.09	\$75.09	\$75.09
	First 75 therms	\$0.1865	\$0.2224	\$0.4274
	All usage over 75 therms	\$0.1865	\$0.2224	\$0.4274
	LDAC	\$0.0359		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.2050		
C&I Medium Annual/High Winter	Tariff Rate G 41:			
Con Wedidin Ainday riigh Winter	Monthly Customer Charge	\$222.64	\$222.64	\$222.64
	All usage	\$0.1895	\$0.2254	\$0.4977
	LDAC	\$0.0359	40.220 .	40.1011
	Gas Cost Adjustment:	Ψ0.0000		
	Cost of Gas	\$0.2723		
CO N. 4 - di	Toriff Data C E4:			1
C&I Medium Annual/Low Winter	<u>Tariff Rate G 51:</u> Monthly Customer Charge	\$222.64	\$222.64	\$222.64
	·	\$0.1337	\$0.1696	\$0.3746
	First 1,000 therms	· ·	• • • • • • • • • • • • • • • • • • • •	1
	All usage over 1,000 therms	\$0.1087	\$0.1446	\$0.3496
	LDAC	\$0.0359		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.2050		
C&I High Annual/High Winter	Tariff Rate G 42:			
	Monthly Customer Charge	\$1,335.81	\$1,335.81	\$1,335.81
	All usage	\$0.1206	\$0.1565	\$0.4288
	LDAC	\$0.0359	,	,
	Gas Cost Adjustment:	ψ0.0333		
	Cost of Gas	\$0.2723		
		Ψυ.Σ123		<u> </u>
C&I High Annual/Low Winter	Tariff Rate G 52:		**	
	Monthly Customer Charge	\$1,335.81	\$1,335.81	\$1,335.81
	All usage	\$0.0792	\$0.1151	\$0.3201
	LDAC	\$0.0359		
	Gas Cost Adjustment:			
	Cost of Gas	\$0.2050		

Issued: April 23, 2020 Issued by: Laurence M. Brock
Effective: With Service Rendered On and After May 1, 2020 Title: Senior Vice President

Authorized by NHPUC Order No. 26,303, in Docket No. DG 19-154, dated October 29, 2019.

CALCULATION OF FIRM SALES COST OF GAS RATE

Period Covered: May 1, 2020 - October 31, 2020

Issued: November 1, 2019, <u>April 23, 2020</u> Effective Date: May 1, 2020	Issued By:	_	Christine \ Laurence I Senior Vice	M. Brock
TOTAL C&I LLF COST OF GAS RATE	\$0.3116			
INDIRECT COST OF GAS	(\$0.0266)			
COMMODITY COST OF GAS RATE	\$ 0.2201			
C&I LLF TOTAL ADJUSTED COMMODITY COSTS C&I LLF PROJECTED PRORATED SALES (05/01/20 – 10/31/20)	\$557,393 2,532,740			
C&ILLF COMMODITY COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&ILLF	\$557,418 (\$25)			
C&ILLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) DEMAND COST OF GAS RATE	2,532,740 \$0.1181			
PLUS RESIDENTIAL DEMAND REALLOCATION TO C&I LLF C&I LLF TOTAL ADJUSTED DEMAND COSTS	\$27,835 \$299,054			
C&I LLF COMMODITY COSTS ALLOCATED PER SMBA	\$271,219		<u> 9U.2123</u>	
INITIAL COMIND HIGH WINTER USE COST OF GAS RATE - 05/01/20 CHANGE IN PER UNIT COST REVISED COMIND HIGH WINTER USE COST OF GAS RATE - 05/01/20			\$0.3116 (\$0.0393) \$0.2723	
	Maximum (COG+25%)		\$0.3895	
COM/IND HIGH WINTER USE COST OF GAS RATE - 05/01/20	COGwh	\$ 0.3116	<u>\$0.2723</u>	per therm
TOTAL C&I HLF COST OF GAS RATE	\$0.2443			
INDIRECT COST OF GAS	(\$0.0266)			
C&I HLF PROJECTED PRORATED SALES (05/01/20 - 10/31/20) COMMODITY COST OF GAS RATE	2,702,383 \$0.2201			
PLUS: RESIDENTIAL COMMODITY REALLOCATION TO C&I HLF C&I HLF TOTAL ADJUSTED COMMODITY COSTS	(\$27) \$594,727			
C&I HLF COMMODITY COSTS ALLOCATED PER SMBA	\$594,754			
G&I HLF TOTAL ADJUSTED DEMAND COSTS G&I HLF PROJECTED PRORATED SALES (05/01/20 – 10/31/20) DEMAND COST OF GAS RATE	\$137,394 2,702,383 \$0.0508			
C&I HLF DEMAND COSTS ALLOCATED PER SMBA PLUS: RESIDENTIAL DEMAND RELOCATION TO C&I HLF C&I HLF TOTAL AD HISTED DEMAND COSTS	\$124,606 \$12,788 \$137,394			
REVISED COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/20	2101.000		<u>\$0.2050</u>	
INITIAL COM/IND LOW WINTER USE COST OF GAS RATE - 5/01/20 CHANGE IN PER UNIT COST			\$0.2443 (\$0.0393)	
	Maximum (COG+25%)		\$0.3054	
COM/IND LOW WINTER USE COST OF GAS RATE - 05/01/20	COGwl	\$0.2443	<u>\$0.2050</u>	per therm
			<u>\$0.2010</u>	
INITIAL RESIDENTIAL COST OF GAS RATE - 05/01/20 CHANGE IN PER UNIT COST REVISED RESIDENTIAL COST OF GAS RATE - 05/01/20			\$0.2768 (\$0.0393) \$0.2375	\$0.3460
	Maximum (COG+25%)		\$0.3460	.
RESIDENTIAL COST OF GAS RATE - 05/01/20	COGwr	\$0.2768	<u>\$0.2375</u>	per therm
Period ending under-collection to be recovered Projected sales (05/01/20 - 10/31/20) Per unit change in Cost of Gas (05/01/20 - 10/31/20)	(\$341,893) 8,708,801 (\$0.0393)			
OTAL PERIOD AVERAGE COST OF GAS	(\$2.44.002)		\$0.2768	per therm
ndirect Cost of Gas	0,700,001		(\$0.0266)	per therm
otal Anticipated Indirect Cost of Gas rojected Prorated Sales (05/01/20 - 10/31/20)	(\$231,620) 8,708,801			
ommodity Cost of Gas Rate otal Direct Cost of Gas Rate	\$ <u>1,916,677</u> \$2,642,482		\$ <u>0.2201</u> \$0.3034	per therm
emand Cost of Gas Rate	\$725,806		\$0.3034 \$0.0833	per therm
otal Anticipated Direct Cost of Gas rojected Prorated Sales (05/01/20 - 10/31/20) irect Cost of Gas Rate	\$2,642,482 8,708,801		#0 2024	
(Col 1)	(Col 2)		(Col 3)	
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NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION

SUMMER-SEASON RESIDENTIAL RATES

	Summer Season May 2020 - October 2020	Tariff Rates	Total Delivery Rates (Includes LDAC)	Total Billed Rates Tariff Rates, LDAC Plus Cost of Gas
Residential Heating	Tariff Rate R 5: Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.6099 \$0.6099 \$0.0706 \$0.2768 \$0.2375	\$22.20 \$0.6805 \$0.6805	\$22.20 \$0.9573 \$0.9180 \$0.9573 \$0.9180
Residential Heating	Tariff Rate R 10:			_
Low income	Monthly Customer Charge First 50 therms All usage over 50 therms LDAC Gas Cost Adjustment: Cost of Gas	\$8.88 \$0.2440 \$0.2440 \$0.0706 \$0.2768 \$0.2375	\$8.88 \$0.3146 \$0.3146	\$8.88 \$0.5914 \$0.5521 \$0.5914 \$0.5521
Residential Non-Heating	Tariff Rate R 6: Monthly Customer Charge First 10 therms All usage over 10 therms LDAC Gas Cost Adjustment: Cost of Gas	\$22.20 \$0.6470 \$0.6470 \$0.0706 \$0.2768 \$0.2375	\$22.20 \$0.7176 \$0.7176	\$22.20 \$0.9944 \$0.9551 \$0.9944 \$0.9551

Issued: November 1, 2019 April 23, 2020

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Issued by: Title: Laurence M. Brock
Christine Vaughan

Senior Vice President

NORTHERN UTILITIES - NEW HAMPSHIRE DIVISION SUMMER SEASON C&I RATES

	Summer Season May 2020 - October 2020	Tariff Rates	Total Delivery Rates (Includes LDAC)	<u>Total Billed Rates</u> Tariff Rates, LDAC Plus Cost of Gas
C&I Low Annual/High Winter	Tariff Rate G 40: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$75.09 \$0.1865 \$0.1865 \$0.0359 \$0.3116 \$0.2723	\$75.09 \$0.2224 \$0.2224	\$75.0 \$0.5340 \$0.4947 \$0.5340 \$0.4947
C&I Low Annual/Low Winter	Tariff Rate G 50: Monthly Customer Charge First 75 therms All usage over 75 therms LDAC Gas Cost Adjustment: Cost of Gas	\$75.09 \$0.1865 \$0.1865 \$0.0359 \$0.2443 \$0.2050	\$75.09 \$0.2224 \$0.2224	\$75.0 \$0.4667 \$0.4274 \$0.4667 \$0.4274
C&I Medium Annual/High Winter	Tariff Rate G 41: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$222.64 \$0.1895 \$0.0359 \$0.3116 \$0.2723	\$222.64 \$0.2254	\$222.6 \$0.5370 \$0.4977
C&I Medium Annual/Low Winter	Tariff Rate G 51: Monthly Customer Charge First 1,000 therms All usage over 1,000 therms LDAC Gas Cost Adjustment: Cost of Gas	\$222.64 \$0.1337 \$0.1087 \$0.0359 \$0.2443 \$0.2050	\$222.64 \$0.1696 \$0.1446	\$222.6 \$0.4139 \$0.3746 \$0.3889 \$0.3496
C&I High Annual/High Winter	Tariff Rate G 42: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,335.81 \$0.1206 \$0.0359 \$0.3116 \$0.2723	\$1,335.81 \$0.1565	\$1,335.8 \$0.4684 \$0.4288
C&I High Annual/Low Winter	Tariff Rate G 52: Monthly Customer Charge All usage LDAC Gas Cost Adjustment: Cost of Gas	\$1,335.81 \$0.0792 \$0.0359 \$0.2443 \$0.2050	\$1,335.81 \$0.1151	\$1,335.8 \$ 0.359 4 <u>\$0.3201</u>

Issued: November 1, 2019April 23, 2020 Effective Date: May 1, 2020

Authorized by NHPUC Order No. 26,303, in Docket No. DG 19-154, dated October 29, 2019.

Issued by: Title:

Christine Vaughan Senior Vice President

Laurence M. Brock