

EXHIBIT A

BEFORE THE
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

CASCADE NATURAL GAS CORPORATION

Annual Purchased Gas Cost and
Temporary Technical Adjustments

CNGC WUTC Advice No.
W20-09-01 September 15, 2021

CASCADE NATURAL GAS CORPORATION

EXHIBIT A

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Cascade Natural Gas Corporation
 WASHINGTON 20/21 PURCHASED GAS COST TRACKING APPLICATION
DEVELOPMENT OF EMBEDDED SUPPLY & PIPELINE TRANSPORTATION RATES

CNGC Advice W21-09-01
 PGA Exhibit A
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Shaded means requires manual entry from Prior Year Washington PGA Gas Cost Workbook

	UNITS	8/1/2020	AMOUNT	CURRENT COST OF GAS	
		RATE		COMMODITY	DEMAND
CANADIAN UPSTREAM RESV COSTS	231,224	\$13.785554	\$3,187,549		\$3,187,549
DOMESTIC UPSTREAM NON-DIRECT RESV COSTS	17,541	\$13.500000	\$236,802		\$236,802
SUPPLY DEMAND CHARGES	277,483	\$3.057479	\$848,399	\$848,399	
COMPANY CONTRACT SUPPLY COMMODITY	240,047,612	\$0.249116	\$59,799,739	\$59,799,739	
GTN T-1 Agmt 00179	102,064	\$7.907699	\$807,093		\$807,093
GTN T-1 (Malin) Agmt 18507	88,306	\$4.555870	\$402,311		\$402,311
GTN T-3 (Expansion) Agmt 00152	0	\$3.515232	\$0		\$0
GTN 2003 Expansion Agmt 08844	0	\$4.555870	\$0		\$0
GTN South to North Agmt 12094	17,541	\$4.349388	\$76,292		\$76,292
GTN COMMODITY	14,648,581	\$0.002861	\$41,913	\$41,913	
NWP TF-1 100002 (principle transport--All Rec/All Del contract)	1,793,700	\$14.207990	\$25,484,870		\$25,484,870
NWP TF-1 Direct to Washington /I	292,160	\$14.207990	\$4,151,006		\$4,151,006
NWP TF-1 Split to specific OR and WA points	440,044	\$14.207990	\$6,252,146		\$6,252,146
NWP TF-1 Weyerhaeuser	50,000	\$14.207990	\$710,400		\$710,400
TF-1 COMMODITY	259,281,100	\$0.000962	\$249,428	\$249,428	
LS-1 DEMAND	529,837	\$0.941700	\$498,947		\$498,947
LS-1 CAPACITY	883,061	\$0.120450	\$106,365		\$106,365
LS-1 COMMODITY	883,061	\$0.305072	\$269,397	\$269,397	
LS-INVENTORY	883,061	\$0.018335	\$16,191		\$16,191
LS-1 LIQUEFACTION	883,061	\$0.090855	\$80,231		\$80,231
LS-1 VAPORIZATION	883,061	\$0.003386	\$2,990		\$2,990
TF-2 TRANSPORTATION CAPACITY	2,419	\$14.207990	\$34,374		\$34,374
TF-2 TRANSPORTATION COMMODITY	883,061	\$0.000832	\$735	\$735	
LS-2 DEMAND	160,055	\$ 0.941700	\$150,724		150723.6015
LS-2 CAPACITY	4,964,569	\$ 0.120450	\$597,982		597982.2912
LS-2 COMMODITY	4,964,569	\$ 0.315298	\$1,565,317	\$1,565,317	
LS-INVENTORY	4,964,569	\$ 0.018949	\$94,076		94075.57382
LS-2 LIQUEFACTION	4,964,569	\$ 0.090855	\$451,056		451055.8827
LS-2 VAPORIZATION	4,964,569	\$ 0.003386	\$16,810		16810.02937
TF-2 TRANSPORTATION CAPACITY	13,602	\$ 14.207990	\$193,251		193250.7984
TF-2 TRANSPORTATION COMMODITY	4,964,569	\$ 0.000832	\$4,131	\$4,131	
SGS-1 DEMAND	148,257	\$0.568670	\$84,309		\$84,309
SGS-1 CAPACITY	5,336,788	\$0.020805	\$111,032		\$111,032
SGS-1 COMMODITY	5,336,788	\$0.174522	\$931,387	\$931,387	
SGS-1 INVENTORY	5,336,788	\$0.010489	\$55,976		\$55,976
TF-2 TRANSPORTATION CAPACITY	14,621	\$14.207990	\$207,740		\$207,740
TF-2 TRANSPORTATION COMMODITY	5,336,788	\$0.000832	\$4,440	\$4,440	
SGS-JPEXP DEMAND	264,918	\$1.476425	\$391,132		\$391,132
SGS-JPEXP CAPACITY	3,090,713	\$0.126655	\$391,454		\$391,454
SGS-JPEXP STORAGE COMMODITY	3,090,713	\$0.178759	\$552,494	\$552,494	
SGS-JPEXP INVENTORY	3,090,713	\$0.010743	\$33,205		\$33,205
TF-1 TRANSPORTATION CAPACITY	8,468	\$14.207990	\$120,309		\$120,309
TF-1 TRANSPORTATION COMMODITY	3,090,713	\$0.000832	\$2,571	\$2,571	
SGS-JP3 DEMAND	60,770	\$0.568670	\$34,558		\$34,558
SGS-JP3 CAPACITY	1,575,911	\$0.020805	\$32,787		\$32,787
SGS-JP3 STORAGE COMMODITY	1,575,911	\$0.178494	\$281,290	\$281,290	
SGS-JP3 STORAGE INVENTORY	1,575,911	\$0.010727	\$16,906		\$16,906
TF-2 TRANSPORTATION CAPACITY	4,318	\$14.207990	\$61,344		\$61,344
TF-2 TRANSPORTATION COMMODITY	1,575,911	\$0.000832	\$1,311	\$1,311	
SGS-JP4 DEMAND	35,000	\$ 0.568670	\$19,903		\$ 19,903
SGS-JP4 CAPACITY	907,628	\$ 0.020805	\$18,883		\$ 18,883
SGS-JP4 STORAGE COMMODITY	907,628	\$ 0.194605	\$176,628	\$176,628	
SGS-JP4 STORAGE INVENTORY	907,628	\$ 0.011696	\$10,615		\$ 10,615
TF-2 TRANSPORTATION CAPACITY	2,487	\$ 14.207990	\$35,330		\$ 35,330
TF-2 TRANSPORTATION COMMODITY	907,628	\$ 0.000832	\$755	\$755	
SGS-MIST DEMAND	264,918	\$5.573400	\$1,476,496		\$1,476,496
SGS-MIST CAPACITY	5,298,366	\$0.067440	\$357,322		\$357,322
SGS-MIST STORAGE COMMODITY	5,298,366	\$0.175828	\$931,603	\$931,603	
SGS-MIST STORAGE INVENTORY	5,298,366	\$0.010967	\$55,989		\$55,989
TRANSPORTATION CAPACITY	14,516	\$14.207990	\$206,244		\$206,244
TRANSPORTATION COMMODITY	5,298,366	\$0.000832	\$4,408	\$4,408	
SGS-TBD2 DEMAND	0	\$0.000000	\$0		\$0
SGS-TBD2 CAPACITY	0	\$0.000000	\$0		\$0
SGS-TBD2 STORAGE COMMODITY	0	\$0.000000	\$0	\$0	
SGS-TBD2 INVENTORY	0	\$0.000000	\$0		\$0
TF-2 TRANSPORTATION CAPACITY	0	\$0.000000	\$0		\$0
TF-2 TRANSPORTATION COMMODITY	0	\$0.000000	\$0	\$0	
WINTER PEAKING RESERVATION (WWP)	0	\$0.000000	\$0		\$0
WINTER PEAKING COMMODITY	0	\$0.000000	\$0	\$0	
TF-2 TRANSPORTATION CAPACITY	0	\$0.000000	\$0		\$0
TF-2 TRANSPORTATION COMMODITY	0	\$0.000000	\$0	\$0	
Core Mitigation (Net Capacity Release and Storage Revenues)			(\$4,306,519)		(\$4,306,519) (80,619)
DAILY BALANCING NON-CORE CREDIT	759,946,232	(\$0.00040)	(\$303,978)		(\$303,978)
WA COMMODITY VOLUMES FOR CORE RESOURCES	262,104,646		\$108,328,448	\$65,665,948	\$42,662,500
LAST SALES/TRANSPORT VOLUMES Demand				262,104,646	262,104,646
LAST PROPOSED AVERAGE RATE				\$0.25053	\$0.16277

	UNITS	CURRENT RATE	AMOUNT	CURRENT COST OF GAS		EMBEDDED DIFFERENCE	COMMODITY UNITS
				COMMODITY	DEMAND		
CANADIAN UPSTREAM RESV COSTS	233,454	\$14.98649	\$3,498,650		\$3,498,650	\$ 311,101	
DOMESTIC UPSTREAM NON-DIRECT RESV COSTS	16,824	\$13.50000	\$227,121		\$227,121	\$ (9,680)	
SUPPLY DEMAND CHARGES	279,695	\$3.18932	\$892,035	\$892,035		\$ 43,636	
COMPANY CONTRACT SUPPLY COMMODITY	227,107,411	\$0.31325	\$71,141,724	\$71,141,724		\$ 11,341,985	227,107,411
GTN T-1 Agmt 00179	102,617	\$7.90770	\$811,462		\$811,462	\$ 4,369	
GTN T-1 (Malin) Agmt 18507	88,784	\$4.50581	\$400,044		\$400,044	\$ (2,267)	
GTN T-3 (Expansion) Agmt 00152	0	\$3.47660	\$0		\$0	\$ -	
GTN 2003 Expansion Agmt 08844	0	\$4.50581	\$0		\$0	\$ -	
GTN South to North #13687	16,824	\$4.34939	\$73,173		\$73,173	\$ (3,119)	
GTN COMMODITY	17,535,069	\$0.00286	\$50,171	\$50,171		\$ 8,259	
NWP TF-1 100002 (principle transport--All Rec/All Del contract)	1,803,410	\$14.24705	\$25,785,416		\$25,785,416	\$ 300,546	
NWP TF-1 Direct to Washington /1	292,160	\$14.24705	\$4,162,417		\$4,162,417	\$ 11,410	
NWP TF-1 Split to specific OR and WA points	440,872	\$14.24705	\$6,281,123		\$6,281,123	\$ 28,977	
NWP TF-1 Weyerhaeuser	50,000	\$14.24705	\$712,352		\$712,352	\$ 1,953	
TF-1 COMMODITY	251,426,886	\$0.00094	\$236,844	\$236,844		\$ (12,584)	
PLY-1 DEMAND	532,705	\$0.94426	\$503,009		\$503,009	\$ 4,062	
PLY-1 CAPACITY	887,841	\$0.12082	\$107,265		\$107,265	\$ 900	
PLY-1 STORAGE COMMODITY	887,841	\$0.32900	\$292,098	\$292,098		\$ 22,701	887,841
PLY-1 INVENTORY	887,841	\$0.019773	\$17,555		\$17,555	\$ 1,364	
PLY-1 LIQUEFACTION	887,841	\$0.09086	\$80,665		\$80,665	\$ 434	
PLY-1 VAPORIZATION	887,841	\$0.00339	\$3,006		\$3,006	\$ 16	
TF-2 TRANSPORTATION CAPACITY	2,432	\$14.24705	\$34,655		\$34,655	\$ 281	
TF-2 TRANSPORTATION COMMODITY	887,841	\$0.00083	\$739	\$739		\$ 4	
PLY-2 DEMAND	160,921	\$0.94426	\$151,951		\$151,951	\$ 1,227	
PLY-2 CAPACITY	4,991,443	\$0.12082	\$603,041		\$603,041	\$ 5,059	
PLY-2 STORAGE COMMODITY	4,991,443	\$0.33583	\$1,676,276	\$1,676,276		\$ 110,959	4,991,443
PLY-2 INVENTORY	4,991,443	\$0.020183	\$100,744		\$100,744	\$ 6,669	
PLY-2 LIQUEFACTION	4,991,443	\$0.09086	\$453,498		\$453,498	\$ 2,442	
PLY-2 VAPORIZATION	4,991,443	\$0.00339	\$16,901		\$16,901	\$ 91	
TF-2 TRANSPORTATION CAPACITY	13,675	\$14.24705	\$194,831		\$194,831	\$ 1,580	
TF-2 TRANSPORTATION COMMODITY	4,991,443	\$0.00083	\$4,153	\$4,153		\$ 22	
JP-1 DEMAND	149,060	\$0.57013	\$84,983		\$84,983	\$ 674	
JP-1 CAPACITY	5,365,677	\$0.02081	\$111,633		\$111,633	\$ 601	
JP-1 STORAGE COMMODITY	5,365,677	\$0.25745	\$1,381,420	\$1,381,420		\$450,033	5,365,677
JP-1 INVENTORY	5,365,677	\$0.015473	\$83,023		\$83,023	\$ 27,047	
TF-2 TRANSPORTATION CAPACITY	14,700	\$14.24705	\$209,438		\$209,438	\$ 1,699	
TF-2 TRANSPORTATION COMMODITY	5,365,677	\$0.00083	\$4,464	\$4,464		\$ 24	
JP-2 DEMAND	266,352	\$1.48044	\$394,319		\$394,319	\$ 3,187	
JP-2 CAPACITY	3,107,444	\$0.12702	\$394,708		\$394,708	\$ 3,253	
JP-2 STORAGE COMMODITY	3,107,444	\$0.28075	\$872,420	\$872,420		\$ 319,926	3,107,444
JP-2 INVENTORY	3,107,444	\$0.016873	\$52,432		\$52,432	\$ 19,228	
TF-1 TRANSPORTATION CAPACITY	8,514	\$14.24705	\$121,293		\$121,293	\$ 984	
TF-1 TRANSPORTATION COMMODITY	3,107,444	\$0.00083	\$2,585	\$2,585		\$ 14	
JP-3 DEMAND	60,770	\$0.57013	\$34,647		\$34,647	\$ 89	
JP-3 CAPACITY	1,584,441	\$0.02081	\$32,964		\$32,964	\$ 177	
JP-3 STORAGE COMMODITY	1,584,441	\$0.24729	\$308,745	\$308,745		\$ 27,455	1,584,441
JP-3 INVENTORY	1,584,441	\$0.011711	\$18,556		\$18,556	\$ 1,650	
TF-2 TRANSPORTATION CAPACITY	4,341	\$14.24705	\$61,846		\$61,846	\$ 502	
TF-2 TRANSPORTATION COMMODITY	1,584,441	\$0.00083	\$1,318	\$1,318		\$ 7	
JP-4 DEMAND	35,000	\$0.57013	\$19,955		\$19,955	\$ 51	
JP-4 CAPACITY	912,541	\$0.02081	\$18,985		\$18,985	\$ 102	
JP-4 STORAGE COMMODITY	912,541	\$0.29942	\$323,885	\$323,885		\$ 147,257	912,541
JP-4 INVENTORY	912,541	\$0.021331	\$19,465		\$19,465	\$ 8,850	
TF-2 TRANSPORTATION CAPACITY	2,500	\$14.24705	\$35,619		\$35,619	\$ 289	
TF-2 TRANSPORTATION COMMODITY	912,541	\$0.00083	\$759	\$759		\$ 4	
MIST DEMAND	266,352	\$5.57340	\$1,484,488		\$1,484,488	\$ 7,993	
MIST CAPACITY	5,327,047	\$0.05744	\$359,256		\$359,256	\$ 1,934	
MIST STORAGE COMMODITY	5,327,047	\$0.29271	\$1,559,264	\$1,559,264		\$ 627,661	5,327,047
MIST INVENTORY	5,327,047	\$0.017592	\$93,712		\$93,712	\$ 37,722	
TRANSPORTATION CAPACITY	14,595	\$14.24705	\$207,931		\$207,931	\$ 1,686	
TRANSPORTATION COMMODITY	5,327,047	\$0.00083	\$4,432	\$4,432		\$ 24	
MIST2 DEMAND	177,660	\$4.46040	\$792,025		\$792,025	\$ 792,025	
MIST2 CAPACITY	4,794,343	\$0.06000	\$287,661		\$287,661	\$ 287,661	
MIST2 STORAGE COMMODITY	4,794,343	\$0.29498	\$1,414,252	\$1,414,252		\$ 1,414,252	4,794,343
MIST2 INVENTORY	4,794,343	\$0.017729	\$84,997		\$84,997	\$ 84,997	
TRANSPORTATION CAPACITY	13,135	\$14.24705	\$187,138		\$187,138	\$ 187,138	
TRANSPORTATION COMMODITY	4,794,343	\$0.00083	\$3,989	\$3,989		\$ 3,989	
WINTER PEAKING RESERVATION (WWP)	0	\$0.00000	\$0		\$0	\$0	
WINTER PEAKING COMMODITY	0	\$0.00000	\$0	\$0		\$0	
TF-2 TRANSPORTATION CAPACITY	0	\$0.00000	\$0		\$0	\$0	
TF-2 TRANSPORTATION COMMODITY	0	\$0.00000	\$0	\$0		\$0	
Core Mitigation (Net Capacity Release and Storage Revenues)			(\$4,344,447)		(\$4,344,447)	(\$37,927)	
DAILY BALANCING NON-CORE CREDIT	764,947,364	(\$0.00040)	(\$305,979)		(\$305,979)	(\$2,000)	
WA COMMODITY VOLUMES FOR CORE RESOURCES	254,078,191		\$124,931,101	\$80,171,574	\$44,759,527	\$16,602,653	254,078,191
SALES/TRANSPORT VOLUMES				254,078,190	254,078,190		
PROPOSED AVERAGE RATE				\$0.31554	\$0.17616	\$0.49170	
CURRENT AVERAGE RATE IN RATES				\$0.25053	\$0.16277	\$0.41330	
GROSS RATE CHANGE				\$0.06501	\$0.01339	\$0.07840	
REVENUE ADJUSTMENT FACTOR		UG-190210		1.04362			
REVENUE ADJUSTMENT FACTOR		UG-200568		1.04454	1.04454	1.04454	19,919,995
TOTAL PROPOSED ADJUSTMENT				\$0.06814	\$0.01399	\$0.08189	

CASCADE NATURAL GAS CORPORATION
2021 PGA Gas Demand Cost Allocation

	Current	Proposed
Demand Costs	\$ 42,662,500	\$44,759,526.55
Commodity Costs	65,665,948	80,171,574

Rate Schedule	503	504	505/511	570	Total
Current Demand Rates	0.16596	0.16345	0.15107	0.13873	
Revenue Adjustment Factor	\$ 1.04362	\$ 1.04362	\$ 1.04362	\$ 1.04362	
% change (same for each sch)	7.61984%	7.61984%	7.61984%	7.61984%	
Proposed Demand Increment	\$ 0.17861	\$ 0.17591	\$ 0.16258	\$ 0.14930	
Proposed Demand Costs Collect	\$ 23,447,636	\$ 18,153,958	\$ 2,847,467	\$ 310,465	\$ 44,759,526.55
Proposed Change in Demand	0.01265	0.01245	0.01151	0.01057	
Revenue Adjustment Factor	1.04454	1.04454	1.04454	1.04454	
Proposed Rate Adjustment	\$ 0.01336	\$ 0.01316	\$ 0.01216	\$ 0.01116	
Proposed Volumes	131,281,424	103,203,196	17,514,113	2,079,458	254,078,191

Cascade Natural Gas Corporation
PGA AMOUNT OF CHANGE BY RATE SCHEDULE
Based Upon the Twelve Months Ended 7/31/21
State of Washington

Line No.	Description (a)	Rate Schedule (b)	Average # of Bills (c)	Forecasted Therms Sold (d)	Actual Revenue (e)	Per Therm Gas Cost Change (g)	Amount of Change (h)
CORE MARKET RATE SCHEDULES							
1	Residential	503	197,371	130,679,417	132,980,825	0.08150	10,650,372.44
2	Commercial	504	26,933	89,120,218	81,203,573	0.08130	7,245,474.00
3	Industrial Firm	505	484	11,930,578	8,959,376	0.08030	958,025.45
4	Large Volume	511	95	17,432,493	12,092,638	0.08030	1,399,829.21
5	Industrial Interruptible	570	7	2,264,179	1,392,481	0.07930	179,549.42
6	Subtotal Core		224,890	251,426,886	236,628,892		20,433,251
NONCORE MARKET RATE SCHEDULES							
7	Distribution	663	196	699,506,305	22,632,554	\$ -	
8	Special Contracts	9xx	6	192,707,530	3,908,394	\$ -	
9	Subtotal Non-core		202	892,213,835	26,540,948	\$ -	
10	CORE & NON-CORE		225,092	1,143,640,721	263,169,840	\$ -	20,433,251

**Cascade Natural Gas Corporation
PGA PROPOSED TYPICAL MONTHLY BILL BY CLASS
State of Washington**

Line No.	Type of Service	UG-200568		Current 7/1/2021 Billing Rates	7/1/2021 Current Average Bill	Proposed 11/1/2021 PGA Effects	Proposed 11/1/2021 PGA Effect Average Bill	Bill Difference	Proposed 11/1/2021 PGA Effects % Bill Change
		Typical Monthly Therm Used	Basic Service Charge						
	(a)	(b)	(c)	(d)	e=c+(b*d)	(f)	g=c+(b*f)		
1	Residential, Schedule 503	56	\$5	\$0.91169	\$56.05	\$0.99319	\$60.62	\$4.56	8.14%
2	Commercial, Schedule 504	290	\$13	\$0.84413	\$257.80	\$0.92543	\$281.37	\$23.58	9.15%
3	Industrial Firm, Schedule 505		\$60						
4	First 500 therms			\$0.78232		\$0.86262			
5	Next 3,500 therms			\$0.74555		\$0.82585			
6	Over 4,000 therms			\$0.73999		\$0.82029			
7	Total 505	2,273			\$1,773.02		\$1,955.54	\$182.52	10.29%
8	Com-Ind Dual Service, Schedule 511		\$125						
9	First 500 therms			\$0.73584		\$0.81614			
11	Next 3,500 therms			\$0.69960		\$0.77990			
12	Over 4,000 therms			\$0.60995		\$0.69025			
13	Total 511	14,356			\$9,258.16		\$10,410.95	\$1,152.79	12.45%
14	Industrial Interruptible, Schedule 570		\$163						
15	First 30,000 therms			\$0.68492		\$0.76422			
16	Over 30,000 therms			\$0.62374		\$0.70304			
17	Total 570	24,313			\$16,815.46		\$18,743.48	\$1,928.02	11.47%

Cascade Natural Gas Corporation
PGA DERIVATION OF PROPOSED RATE ADJUSTMENT
State of Washington

Line No.	Revised Description	503 Residential Customers	504 Commercial Customers	505/511 Firm Indust Customers	570 Interruptible Customers
1	WACOG Effective November 1, 2020 Schedule 595 - WACOG Adj. Nov. 1, 2020	\$0.43833 (\$0.00367)	\$0.43558 (\$0.00354)	\$0.42197 (\$0.00285)	\$0.40840 (\$0.00216)
	<u>Proposed Incremental Change</u>				
2	Residential	\$0.08150			
3	Commercial		\$0.08130		
4	Industrial Firm			\$0.08030	
5	Interruptible - CORE				\$0.07930
6	NON-CORE Customers				
7	Total Proposed Rate	\$0.51616	\$0.51334	\$0.49942	\$0.48554
	Schedule 595 - WACOG	0.07783	0.07776	0.07745	0.07714

Cascade Natural Gas Corporation
TTA CALCULATION OF PER THERM RATES TO AMORTIZE DEFERRED ACCOUNTS
State of Washington

Line No.	Consolidated Account (a)	Account Balance 7/31/2021 (b)	Interest Assignments & Amortization through 10/31/2021 (c)	Revenue Sensitive costs (d)	Interest Accruals Through Am. (e)	Amount (f)	PROPOSED TECH. ADJUSTMENTS			Proposed Period of Am. (j)	Item (k)
							CORE		NONCORE		
						503/504 (g)	All Other Core (h)	R/S 663 Commodity (i)			
1	Core Gas Cost	\$ 33,999,966	\$ (1,852,151)	\$ 1,498,612	\$ 421,202	\$ 34,067,629					
2					Divide by	251,426,886	\$ 0.13550	\$ 0.13550		1 Year	Core Gas Deferrals Core
3											
4											
5											
6											
9	TOTAL	\$ 33,999,966	\$ (1,852,151)	\$ 1,498,612	\$ 421,202	\$ 34,067,629	\$ 0.13550	\$ 0.13550	\$ -		

Cascade Natural Gas Corporation
TTA DERIVATION OF PROPOSED RATE LEVEL WITHIN
RATE ADDITION SCHEDULE NO. 590
State of Washington

Description (a)	Rate Schedule (b)	Reverse Prior Temporary Rate Adj. (c)	Gas Cost Related Temporary Rate Adj. (d)	Incremental R/S 590 Rate Change (e)	Posted R/S 590 Tariff Rate (f)
CORE MARKET RATE SCHEDULES					
Residential	503	\$ (0.07316)	\$0.13550	\$ 0.06234	\$ 0.13550
Commercial	504	\$ (0.07316)	\$0.13550	\$ 0.06234	\$ 0.13550
Com-Ind Dual Service	511	\$ (0.07316)	\$0.13550	\$ 0.06234	\$ 0.13550
Industrial Firm	505	\$ (0.07316)	\$0.13550	\$ 0.06234	\$ 0.13550
Industrial Interr.	570	\$ (0.07316)	\$0.13550	\$ 0.06234	\$ 0.13550
TTA Proposed Typical Monthly Bill by Class					
Distribution	663	\$ -	\$ -	\$ -	\$ -
Transportation	685/686	\$ -	\$ -	\$ -	\$ -
Special Contract	9xx	\$ -	\$ -	\$ -	\$ -

(c) from 2018 TTA Exhibit A, Page 7 of 11

(d) from TTA Exhibit A, Page 7 of 11

Cascade Natural Gas Corporation
TTA AMOUNT OF CHANGE BY RATE SCHEDULE
BASED UPON THE TWELVE MONTHS ENDED 7/31/2021
State of Washington

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Line No.	Description (a)	Rate Schedule (b)	Average # of Bills (c)	Forecasted Therms Sold (d)	Actual Revenue (e)	Per Therm TTA Change (f)	Amount of Change (g)	Percentage Change (h)
CORE MARKET RATE SCHEDULES								
1	Residential	503	197,371	130,679,417	132,980,825	\$ 0.06234	\$ 8,146,555	6.13%
2	Commercial	504	26,933	89,120,218	81,203,573	\$ 0.06234	\$ 5,555,754	6.84%
3	Industrial Firm	505	484	11,930,578	8,959,376	\$ 0.06234	\$ 743,752	8.30%
4	Large Volume	511	95	17,432,493	12,092,638	\$ 0.06234	\$ 1,086,742	8.99%
5	Industrial Interruptible	570	7	2,264,179	1,392,481	\$ 0.06234	\$ 141,149	10.14%
6	Subtotal core		224,890	251,426,886	236,628,892		\$ 15,673,952	
NONCORE MARKET RATE SCHEDULES								
7	Pipeline Transportation	685/686		-	-	\$ -	\$ -	
8	Distribution	663	196	699,506,305	22,632,554	\$ -	\$ -	0.00%
9	Special Contracts	9xx	6	192,707,530	3,908,394			
10	Subtotal Non-core		202	892,213,835	26,540,948		\$ -	
11	CORE & NON-CORE		225,092	1,143,640,721	263,169,840		\$ 15,673,952	5.96%

Cascade Natural Gas Corporation
TTA TYPICAL MONTHLY THERM USAGE AND COST BY CLASS
FOR TWELVE MONTHS ENDED 7/31/2021
State of Washington

Line No.	Description (a)	Therm Sales (b)	Revenue at 11/01/2020 Rates (c)	Per Therm Rate Change (d)	Amount of Change (e)	Percent Change (f)
1	Residential (503)	130,679,417	132,980,825	\$ 0.06234	8,146,555	6.13%
2	Commercial (504)	89,120,218	81,203,573	\$ 0.06234	5,555,754	6.84%
3	Industrial (505)	11,930,578	8,959,376	\$ 0.06234	743,752	8.30%
4	Industrial Lg Vol (511)	17,432,493	12,092,638	\$ 0.06234	1,086,742	8.99%
5	Interruptible (570)	2,264,179	1,392,481	\$ 0.06234	141,149	10.14%
6	Noncore Dist (663)	699,506,305	22,632,554	\$ -	0	0.00%

Cascade Natural Gas Corporation
TTA PROPOSED TYPICAL MONTHLY BILL BY CLASS
State of Washington

Line No.	Type of Service	UG-200568		Current	7/1/2021	Proposed	Proposed	Bill Difference	Proposed
		Typical Monthly Therm Used	Basic Service Charge	7/1/2021 Billing Rates	Current Average Bill	11/1/2021 TTA Effects	11/1/2021 TTA Effect Average Bill		11/1/2021 TTA Effects % Bill Change
	(a)	(b)	(c)	(d)	e=c+(b*d) (e)	(f)	g=c+(b*f) (g)		
1	Residential, Schedule 503	56	\$5	\$0.91169	\$56.05	\$0.97403	\$59.55	\$3.49	6.23%
2	Commercial, Schedule 504	290	\$13	\$0.84413	\$257.80	\$0.90647	\$275.88	\$18.08	7.01%
3	Industrial Firm, Schedule 505		\$60						
4	First 500 therms			\$0.78232		\$0.84466			
5	Next 3,500 therms			\$0.74555		\$0.80789			
6	Over 4,000 therms			\$0.73999		\$0.80233			
7	Total 505	2,273			\$1,773.02		\$1,914.72	\$141.70	7.99%
8	Com-Ind Dual Service, Schedule 511		\$125						
9	First 500 therms			\$0.73584		\$0.79818			
11	Next 3,500 therms			\$0.69960		\$0.76194			
12	Over 4,000 therms			\$0.60995		\$0.67229			
13	Total 511	14,356			\$9,258.16		\$10,153.12	\$894.95	9.67%
14	Industrial Interruptible, Schedule 570		\$163						
15	First 30,000 therms			\$0.68492		\$0.74726			
16	Over 30,000 therms			\$0.62374		\$0.68608			
17	Total 570	24,313			\$16,815.46		\$18,331.13	\$1,515.67	9.01%