



8113 W. GRANDRIDGE BLVD., KENNEWICK, WASHINGTON 99336-7166
 TELEPHONE 509-734-4500 FACSIMILE 509-737-9803
www.cngc.com

July 31, 2020

Oregon Public Utility Commission
 201 High Street SE, Suite 100
 Salem, OR 97301-3398

**Re: Advice No. CNG/O20-07-01, UG 397
 UM 1558, Deferred Accounting for Purchased Gas Adjustment Schedule 177,
 Purchased Gas Cost Adjustment and Schedule No. 191 Temporary Gas Cost Rate
 Adjustment**

Attention: Filing Center

Pursuant to OAR 860-022-0070, Docket UM 1286 Order Nos. 11-196, 14-238, and 18-144, ORS 757.210 and ORS 757.259(5), Cascade hereby submits the following revisions to its Tariff P.U.C. OR No. 10, stated to become effective with service on and after November 1, 2020:

**Fourth Revision of Sheet No. 177.2
 Fourth Revision of Sheet No. 191.1**

The purpose of this filing is to make the annual true up to Cascade's gas cost in accordance with the provisions established in Schedule No. 177, Purchase Gas Adjustment (PGA) Provision. The purchased gas cost proposed in this filing is due to a change in the cost of commodity gas supply, transportation capacity, and realignment of existing firm transportation capacity. In accordance with the PGA methodology, amortization of outstanding deferred gas cost balances is also included in this filing.

Tables 1 through 3 below summarize the changes in the following: 1) Forward looking commodity costs included in Schedule 177.2; 2) Demand costs included in Schedule 177.2; and 3) The combined changes to Schedule 177.2 (both commodity and demand)

Table 1 - Schedule 177.2 Commodity

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.181146	\$0.21515	\$0.03400

Table 2 - Schedule 177.2 Demand

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.158845	\$0.14604	(\$0.01281)

Table 3 - Schedule 177.2 Commodity + Demand

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.339991	\$0.36119	\$0.02120

Commodity Costs (Schedule 177.2)

As shown in Table 1 above, the estimated commodity cost (WACOG) increases \$0.03400 per therm. The proposed WACOG is \$0.21515 per therm compared to the present WACOG of \$0.181146 per therm included in rates.

Cascade’s Gas Supply Oversight Committee (GSOC) oversees the Company’s gas supply physical portfolio and overall hedging strategy. Approximately 50% of estimated annual load requirements for the PGA year will be hedged through fixed price physicals and financial derivatives. Cascade’s relationship with Gelber & Associates (G&A) remains active as the Company’s hedging consultant. Recent price indications suggest fixed price physicals are less expensive than their financial counterpart. G&A recommended continuing hedging with fixed-price physicals due to current flexibility and cost advantages over financial transactions at Northwest Basins combined with financial instruments when economically appropriate. Cascade has been hedging natural gas both on a periodic and discretionary basis throughout 2020 for the forthcoming PGA year (November 2020 through October 2021). In accordance with GSOC guidance, transactions cannot exceed three years. Cascade will continue to execute transactions for hedging purposes throughout the remainder of calendar year 2020, consistent with the current hedge execution plan authorized by GSOC.

The information contained in the Company’s responses to “Natural Gas Portfolio Development Guidelines” describes the Company’s Natural Gas Procurement Plan (Procurement Plan). The Company’s Procurement Plan uses a diversified approach to procure natural gas for the upcoming year. While the Procurement Plan incorporates a risk responsive approach for the hedging portion of the portfolio, the Company exercises flexibility and discretion in all areas of the Plan based on changes in the wholesale market. As outlined in the OPUC’s portfolio planning guidelines, the Company meets with the Commission Staff quarterly to discuss the state of the wholesale market and the status of the Company’s Procurement Plan, among other related activities. Should the Company deviate from the Procurement Plan due to a change in market dynamics etc., the Company documents and communicates any such changes with GSOC and provides updates to Commission Staff.

Demand Costs (Schedule 177.2)

Demand costs reflect the cost of pipeline transportation to the Company’s system, as well as fixed costs associated with natural gas storage. As shown in Table 2, demand costs are expected to be relatively stable, with the Company proposing only a slight decrease of (\$0.01281) cents per therm. Oregon gas costs rose 15% in Oregon due to rising gas futures pricing, primarily driven from market uncertainty and declining production as a result the COVID-19 pandemic.

Amortization of Deferral Accounts (Schedule 191.1)

Table 4 below summarizes the changes in both the commodity and demand amortization rates included in Schedule 191:

Table 4
Schedule 191 PGA Temporary Gas Cost Rate Adjustment
Amortization

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.066015	\$0.03196	(\$0.03405)

As shown in the Table above, the current overall amortization amount approved in the Company’s 2019 PGA is a collected rate of approximately \$0.07 per therm. Actual wholesale natural gas prices were lower than the level identified in the Company’s 2019 PGA. As a result, the deferral of commodity and demand cost differences were over collected from customers’ actual costs and a deferral balance of approximately (\$2.98 million). The amortization results in a nearly \$0.03 per therm rate.

Three Percent Test

Pursuant to ORS 757.259 and OAR 860-027-0300, the overall annual average rate impact of the amortizations authorized under the statutes may not exceed three percent of the natural gas utility’s gross revenues for the preceding calendar year, unless the Commission finds that allowing a higher amortization rate is reasonable under the circumstances in ORS 757.259(7). As shown on Attachment C of the Company’s PGA workpapers, total gross revenue for calendar year 2019 was \$67,070,587. The total amortization revenue requested for the “Prior Period Gas Cost Deferral” as shown in Attachment C is \$2,793,857. The resulting annual average rate impact from PGA amortization is 4.17% and does not fall within the requirements of the statute. Overall average impact is greater than the 3% due to natural gas commodity and pipeline transportation costs incurred in 2019.

The combination of the “Prior Period Gas Cost Deferral” and the “Non-Gas Cost Amortization” related to the Company’s Conservation Alliance Plan filing made on July 31, 2020, is a total amortization revenue request of \$2,256,295. The net effect of combining the results of these two filings is an overall revenue change of \$2,172,854, an average rate impact of 3.24%, which does not fall within the requirements of the statute. As mentioned earlier, Cascade incurred higher commodity costs in 2019.

Other Information

In this filing, the Company is requesting a decrease in the Company’s annual operating revenues of (\$1,123,687) or (1.85%). Table 5 below shows current and proposed gross annual revenues per customer class.

Table 5

Rate Schedule	Description	Total Current Revenues	Total Proposed Revenues	Revenue Incr (Decr)	Percent Incr (Decr)
101	Residential	\$36,030,225	35,415,447	(614,778)	(1.71%)
104	Commerical	\$19,485,969	19,091,882	(394,087)	(2.02%)
105	Industrial Firm	\$1,972,943	1,932,871	(40,073)	(2.03%)
111	Com-Ind Dual	\$1,796,442	1,755,595	(40,846)	(2.27%)
170	Industrial Interr	\$1,400,022	1,366,119	(33,903)	(2.42%)

Table 6 below provides an estimated average bill for each rate schedule as well as the average bill impact of the revisions proposed in this filing.

Table 6

Rate Schedule	Avg Therms per Month	Current Avg Bill	Proposed Avg Bill	Monthly Change	Proposed Rates % Change
101	60	\$48.69	\$47.86	(\$0.83)	(1.71%)
104	252	\$151.88	\$148.81	(\$3.07)	(2.02%)
105	1,693	\$1,079.30	\$1,057.38	(\$21.92)	(2.03%)
111	13,025	\$7,368.31	\$7,200.77	(\$167.54)	(2.27%)
170	53,549	\$28,306.48	\$27,621.00	(\$685.47)	(2.42%)

Pursuant to OAR 860-022-0025 and OAR 860-022-0030, the total number of customers affected by this filing, the annual revenue before and after the impact of the rate change, and the average monthly use and resulting bills under existing and proposed rates are as follows:

Table 7

Rate Schedule	Number of Customers
101	66,663
104	10,176
105	150
111	20
170	4
163	34

In Advice Nos. O20-07-02 and O20-07-03, Cascade has also filed its Non-Gas Cost Tracking Filings. The net overall change in revenue is a decrease. Table 8 below shows the net impact to the Company's customers, by rate schedule, inclusive of all the Company's filings made on July 31, 2020:

Table 8

<u>Rate Schedule</u>	<u>Proposed Rate Change</u>
Schedule 101	.36%
Schedule 104	.51%
Schedule 105	(2.08%)
Schedule 111	(2.34%)
Schedule 170	(2.50%)
Schedule 163	(0.41%)

The Company notified customers with a bill insert in August of a projected decrease in rate due to the PGA. The Company will issue a more detailed bill insert to customers beginning of October, coincident with the updated annual Purchased Gas Cost Adjustment filing in mid-September.

The rate adjustments proposed in this filing are consistent with the Public Utility Commission of Oregon Staff's recommendations with regard to rate spread requirements and amortization procedures.

Attached in support of this filing are Exhibits 1, 2, and 3. Exhibit 1 contains schedules supporting the per therm gas cost change consistent with the procedure described in PGA Rate Schedule No. 177. Exhibit 2 contains summary information on the proposed impacts the filings will have on the Company's rates and revenues, and the various rate schedules. A proposed notice to the public is also included. Exhibit 3 contains a summary of the proposed changes to the Company's revenues.

The Company agrees to rate adjustments and refunds should the Commission determine that these rates have been inappropriately calculated. Any rate adjustments and refunds will be retroactive to November 1, 2020 provided that the Commission advises the Company of the necessity for such rate adjustments or refunds within 30 days after the effective date of these rates.

Please direct any questions regarding this filing to me at (509) 734-4593.

Sincerely,

/s/ Michael Parvinen

Michael Parvinen
Director, Regulatory Affairs

Enclosures

**SCHEDULE 177
PURCHASED GAS COST ADJUSTMENT PROVISION**

DEFINITIONS (continued)

1. Capacity Release Benefits: This component includes revenues associated with pipeline capacity releases. The benefits to customers, through the monthly PGA deferrals, shall be 100% of the capacity release revenues up to the full pipeline rate, and 80% of the capacity release revenues in excess of full pipeline rates. Capacity release revenues shall be quantified on a transaction-by-transaction basis.

2. Estimated Weighted Average Cost of Gas (WACOG): The estimated WACOG for the period November 1st through October 31st is calculated by the following formula: (Forecasted Purchases at Adjusted Contract Prices) divided by (forecasted sales volumes). This WACOG does not include any revenue sensitive factors.
 - a. Forecasted Purchases means this year’s forecasted sales volumes plus a percentage for distribution system LUGF and pipeline fuel in kind.
 - b. Distribution system embedded LUGF means the 5-year average of actual distribution system LUGF, not to exceed 2%.
 - c. Adjusted contract prices means actual and projected contract prices that are adjusted by each associated Canadian pipeline’s published (closest to August 1) fuel use and line loss amount provided for by tariff, and by each associated U.S. pipeline’s tariffed rate.

3. Estimated Non-Commodity Cost: Estimated annual Non-Commodity gas costs shall be equal to estimated annual Demand Costs, less estimated annual Capacity Release Benefits, plus or minus estimated annual pipeline refunds or surcharges.

4. Estimated Non-Commodity Cost per Therm: The Estimated Non-Commodity cost per therm is calculated by the following formula: (Estimated annual Non-Commodity Cost divided by forecasted sales volumes). This estimate does not include any revenue-sensitive factors.

The Estimated Cost of Gas per therm is as follows:

	Cost of Gas Per Therm	Revenue Sensitive Costs	Cost of Gas Per Therm Rate	
WACOG	\$0.20858	3.053%	\$0.21515	(I)
Non-Commodity Cost	\$0.14158	3.053%	\$0.14604	(R)
TOTAL	\$0.35016	3.053%	\$0.36119	(I)

10. Actual Monthly Calendar Sales Volumes: Actual billed sales therms, adjusted for estimated unbilled therms, for firm and interruptible sales schedules.

(continued)

**SCHEDULE NO. 191
TEMPORARY GAS COST RATE ADJUSTMENT**

APPLICABLE

The temporary rate applies to Schedules 101, 104, 105, 111, and 170.

RATES

Each of the charges specified in the schedules for gas service hereinafter listed shall be adjusted by the following per therm increase or (decrease) or appropriate multiple thereof in determining annual minimum bill, if any:

Rate Schedule	Amount
101	\$0.03196
104	\$0.03196
105	\$0.03196
111	\$0.03196
170	\$0.03196

(R)

(R)

LIMITATION

This temporary rate adjustment shall remain in effect until cancelled pursuant to a Commission order.

TAX ADDITIONS

The rates named herein are subject to increases as set forth in Schedule 100 for Municipal Exactions.

GENERAL TERMS

Service under this schedule is governed by the terms of this schedule, the Rules contained in this Tariff, any other schedules that by their terms or by the terms of this schedule apply to service under this schedule, and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

**SCHEDULE 177
PURCHASED GAS COST ADJUSTMENT PROVISION**

DEFINITIONS (continued)

1. Capacity Release Benefits: This component includes revenues associated with pipeline capacity releases. The benefits to customers, through the monthly PGA deferrals, shall be 100% of the capacity release revenues up to the full pipeline rate, and 80% of the capacity release revenues in excess of full pipeline rates. Capacity release revenues shall be quantified on a transaction-by-transaction basis.

2. Estimated Weighted Average Cost of Gas (WACOG): The estimated WACOG for the period November 1st through October 31st is calculated by the following formula: (Forecasted Purchases at Adjusted Contract Prices) divided by (forecasted sales volumes). This WACOG does not include any revenue sensitive factors.
 - a. Forecasted Purchases means this year’s forecasted sales volumes plus a percentage for distribution system LUGF and pipeline fuel in kind.
 - b. Distribution system embedded LUGF means the 5-year average of actual distribution system LUGF, not to exceed 2%.
 - c. Adjusted contract prices means actual and projected contract prices that are adjusted by each associated Canadian pipeline’s published (closest to August 1) fuel use and line loss amount provided for by tariff, and by each associated U.S. pipeline’s tariffed rate.

3. Estimated Non-Commodity Cost: Estimated annual Non-Commodity gas costs shall be equal to estimated annual Demand Costs, less estimated annual Capacity Release Benefits, plus or minus estimated annual pipeline refunds or surcharges.

4. Estimated Non-Commodity Cost per Therm: The Estimated Non-Commodity cost per therm is calculated by the following formula: (Estimated annual Non-Commodity Cost divided by forecasted sales volumes). This estimate does not include any revenue-sensitive factors.

The Estimated Cost of Gas per therm is as follows:

	Cost of Gas Per Therm	Revenue Sensitive Costs	Cost of Gas Per Therm Rate
WACOG	\$0. 17562120858	3.05 3 %	\$0. 18114621515 (R)
Non-Commodity Cost	\$0. 15400014158	3.05 3 %	\$0. 15884514604 (R)
TOTAL	\$0.32962135016	3.053%	\$0.33999136119 (R)

10. Actual Monthly Calendar Sales Volumes: Actual billed sales therms, adjusted for estimated unbilled therms, for firm and interruptible sales schedules.

(continued)

SCHEDULE NO. 191
TEMPORARY GAS COST RATE ADJUSTMENT

APPLICABLE

The temporary rate applies to Schedules 101, 104, 105, 111, and 170.

RATES

Each of the charges specified in the schedules for gas service hereinafter listed shall be adjusted by the following per therm increase or (decrease) or appropriate multiple thereof in determining annual minimum bill, if any:

Rate Schedule	Amount	
101	\$0. 06601503196	(IR)
104	\$0. 06601503196	
105	\$0. 06601503196	
111	\$0. 06601503196	
170	\$0. 06601503196	(IR)

LIMITATION

This temporary rate adjustment shall remain in effect until cancelled pursuant to a Commission order.

TAX ADDITIONS

The rates named herein are subject to increases as set forth in Schedule 100 for Municipal Exactions.

GENERAL TERMS

Service under this schedule is governed by the terms of this schedule, the Rules contained in this Tariff, any other schedules that by their terms or by the terms of this schedule apply to service under this schedule, and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

Cascade Natural Gas Corporation

CERTIFICATE OF SERVICE

I hereby certify that I have this day served by electronic mail the foregoing notice of Cascade's Purchase Gas Adjustment Filing upon all parties of record in UG-390, which is the Company's current general rate case.

Oregon Citizens' Utility Board dockets@oregoncub.org	Michael Goetz Oregon Citizens' Utility Board mike@oregoncub.org
Tommy A Brooks Cable Huston LLP tbrooks@cablehuston.com	Chad M Stokes Cable Huston LLP cstokes@cablehuston.com
Jocelyn C Pease McDowell, Rackner & Gibson PC jocelyn@mrg-law.com	Edward Finklea Alliance of Western Energy Consumers efinklea@awec.solutions.org
William Gehrke Oregon Citizens' Utility Board will@oregoncub.org	Marianne Gardner Public Utility Commission of Oregon marianne.gardner@state.or.us
Stephanie S Andrus PUC Staff- Department of Justice Stephanie.andrus@state.or.us	Lisa F Rackner McDowell, Rackner & Gibson PC dockets@mrg-law.com

Dated this 31st day of July 2020.

/s/ Maryalice Peters

Maryalice Peters
Regulatory Affairs
Cascade Natural Gas Corporation
8113 W Grandridge Blvd
Kennewick, WA 99336
maryalice.peters@cngc.com

Before the
PUBLIC UTILITY COMMISSION OF OREGON

EXHIBIT 1

Gas Supply Portfolio and Related Transportation

Oregon Summary of Gas Cost Deferrals (Schedule 1 of 9)
Prior Commodity & Demand Amortization (Schedule 2 of 9)
Development of Gas Cost Related PGA Temporary Rate Increments (Schedule 3 of 9)
Core Market Commodity Cost Amortization Supporting 47OR.2530.01272 (Schedule 4 of 9)
Gas Cost Consolidated Accounts Amortization Supporting 47OR.2530.01287 (Schedule 5 of 9)
Core Market Demand Amortization Supporting 47OR.2530.01273 (Schedule 6 of 9)
New WACOG Commodity (Schedule 7 of 9)
Derivation of Oregon per Therm Non-Commodity Charges (Schedule 8 of 9)
Summary of Rate and Revenue Impact (Schedule 9 of 9)

Cascade Natural Gas Corporation

July 31, 2020

**Cascade Natural Gas
Oregon Summary of Gas Cost Deferrals**

Line No.															
		Jul_2019	Aug_2019	Sep_2019	Oct_2019	Nov_2019	Dec_2019	Jan_2020	Feb_2020	Mar_2020	Apr_2020	May_2020	Jun_2020	SUM (A:L)	
		A	B	C	D	F	F	G	H	I	J	K	L	M	
1	Current commodity (WACOG) without revenue sensitive, Order No.18-384/19-377	\$0.18644	\$0.18644	\$0.18644	\$0.18644	\$0.18644	\$0.175621	\$0.175621	\$0.175621	\$0.175621	\$0.175621	\$0.175621	\$0.175621	\$0.175621	
2	Current demand billing rate without revenue sensitive, Order No.18-384/19-377	\$0.16027	\$0.16027	\$0.16027	\$0.16027	\$0.16027	\$0.154000	\$0.154000	\$0.154000	\$0.154000	\$0.154000	\$0.154000	\$0.154000	\$0.154000	
5	Annual ROR (Interest rate), per Order No. 19-088			7.2700%											
6	Deferral percentage July - October			90%											
7	Deferral percentage November - June			90%											
12	Oregon Calendar Month Sales	2,427,260	1,614,578	3,379,676	9,087,516	10,556,149	12,913,615	13,275,690	10,774,292	9,807,801	6,025,683	3,854,227	3,123,716	86,840,203	
14	Sales volumes subject to WACOG	2,427,260	1,614,578	3,379,676	9,087,516	10,556,149	12,913,615	13,275,690	10,774,292	9,807,801	6,025,683	3,854,227	3,123,716	86,840,203	
15	Sales volumes subject to Winter/Seasonal WACOG													0	
16	Sales volumes subject to Monthly Incremental Costs													0	
17	Total Sales	2,427,260	1,614,578	3,379,676	9,087,516	10,556,149	12,913,615	13,275,690	10,774,292	9,807,801	6,025,683	3,854,227	3,123,716	86,840,203	
19	Commodity collections at WACOG	\$452,543	\$301,025	\$630,114	\$1,694,295	\$1,850,679	\$2,267,902	\$2,331,490	\$1,892,192	\$1,722,456	\$1,058,236	\$676,883	\$548,590	15,426,405	
20	Commodity collections at Winter/Seasonal WACOG													0	
21	Commodity collections at Monthly Incremental Costs													0	
22	Total Commodity collections	\$452,543	\$301,025	\$630,114	\$1,694,295	\$1,850,679	\$2,267,902	\$2,331,490	\$1,892,192	\$1,722,456	\$1,058,236	\$676,883	\$548,590	15,426,405	
24	Demand collections at \$0.16027	\$389,017	\$258,768	\$541,661	\$1,456,456	\$1,623,791	\$1,988,697	\$2,044,456	\$1,659,241	\$1,510,401	\$927,955	\$593,551	\$481,052	13,475,047	
25	Demand collections at other rates (interruptible rates & MDDV based)													0	
26	Total Demand collections	\$389,017	\$258,768	\$541,661	\$1,456,456	\$1,623,791	\$1,988,697	\$2,044,456	\$1,659,241	\$1,510,401	\$927,955	\$593,551	\$481,052	13,475,047	
28	COMMODITY DEFERRAL CALCULATIONS														
29	Actual Commodity Cost (w/true ups, net of storage injections, bookouts, etc.)	\$ 520,057	\$ 496,247	\$ 762,808	\$ 2,395,490	\$ 2,549,856	\$ 4,207,702	\$ 3,646,996	\$ 2,431,681	\$ 1,778,261	\$ 951,465	\$ 595,817	\$ 519,378	20,855,757	
30	Total Commodity billed (line 22)	\$452,543	\$301,025	\$630,114	\$1,694,295	\$1,850,679	\$2,267,902	\$2,331,490	\$1,892,192	\$1,722,456	\$1,058,236	\$676,883	\$548,590	15,426,405	
31	Cost versus collection	\$67,514.21	\$195,222	\$132,694	\$701,195	\$699,176.50	\$1,939,800	\$1,315,506	\$539,489	\$55,805	(\$106,772)	(\$81,066)	(\$29,212)	\$5,429,352	
32	Customer share (line 31 * applicable deferral percentage)	\$60,763	\$175,700	\$119,425	\$631,075	\$629,259	\$1,745,820	\$1,183,955	\$485,540	\$50,224	(\$96,094)	(\$72,959)	(\$26,291)	\$4,886,417	
33	Storage Adjustment													\$0	
34	Other Adjustment													\$0	
35	Total Commodity deferral	\$60,763	\$175,700	\$119,425	\$631,075	\$629,259	\$1,745,820	\$1,183,955	\$485,540	\$50,224	(\$96,094)	(\$72,959)	(\$26,291)	\$4,886,417	
37	Commodity deferral Beginning Balance	\$8,600,714	\$8,714,544	\$8,943,481	\$9,110,444	\$996,436	\$1,631,609	\$3,387,386	\$4,592,257	\$5,102,117	\$5,183,844	\$5,117,129	\$5,075,766	\$5,079,053	
38	Interest	\$53,105	\$53,808	\$53,440	\$56,253	\$5,954	\$10,074	\$20,915	\$26,526	\$31,503	\$30,975	\$31,596	\$30,329	\$404,480	
39	Account adjustment (balance transfers and other)	\$(38.00)	\$(570.11)	\$(5,902.24)	\$(8,801,335.81)	\$(40.15)	\$(117.76)	\$-	\$(2,206.38)	\$-	\$(1,595.31)	\$0	\$(751.88)	\$(8,812,558)	
40	Commodity deferral Ending Balance (June balance to rate calc sheet)	8,600,714	\$8,714,544	\$9,110,444	\$996,436	\$1,631,609	\$3,387,386	\$4,592,257	\$5,102,117	\$5,183,844	\$5,117,129	\$5,075,766	\$5,079,053	\$5,079,053	
42	DEMAND DEFERRAL CALCULATIONS														
44	Actual Demand Cost (w/true-ups) minus Storage Mitigation	\$ 679,350	\$ 991,366	\$ (1,249,475.32)	\$ 839,092.48	\$ 1,278,572.67	1,419,612.20	1,355,525.14	1,289,784.08	1,350,254.00	1,271,144.78	888,374.01	829,328.38	\$10,942,928	
45	Total Demand billed (line 26)	\$389,017	\$258,768.42	\$541,661	\$1,456,456	\$1,623,791	\$1,988,697	\$2,044,456	\$1,659,241	\$1,510,401	\$927,955	\$593,551	\$481,052	\$13,475,047	
46	Cost versus collection	\$290,333	\$732,597	(\$1,791,135.99)	(\$617,364)	(\$345,218.73)	(\$569,085)	(\$688,931)	(\$369,457)	(\$160,147)	\$343,190	\$294,823	\$348,276	(\$2,532,119)	
47	Other Adjustment													\$0	
48	Total Demand deferral	\$290,333	\$732,597	(\$1,791,136)	(\$617,364)	(\$345,219)	(\$569,085)	(\$688,931)	(\$369,457)	(\$160,147)	\$343,190	\$294,823	\$348,276	(\$2,532,119)	
50	Demand deferral Beginning Balance	(\$3,724,670)	(\$3,457,336)	(\$2,746,086)	(\$4,553,631)	(\$1,382,348)	(\$1,742,545)	(\$2,322,389)	(\$3,025,660)	(\$3,412,594)	(\$3,593,812)	(\$3,272,097)	(\$2,997,477)	(\$2,667,112)	
51	Interest	(\$22,998)	(\$21,347)	(\$16,409)	(\$28,116)	(\$8,260)	(\$10,759)	(\$14,340)	(\$17,477)	(\$21,071)	(\$21,474)	(\$20,204)	(\$17,911)	(\$220,366)	
52	Account adjustment (balance transfers and other)				\$3,816,762	(\$6,718)								\$3,810,044	
53	Demand deferral Ending Balance (June balance to rate calc sheet)	(3,724,670)	(\$3,457,336)	(\$2,746,086)	(\$4,553,631)	(\$1,382,348)	(\$1,742,545)	(\$2,322,389)	(\$3,025,660)	(\$3,412,594)	(\$3,593,812)	(\$3,272,097)	(\$2,997,477)	(\$2,667,112)	

**Cascade Natural Gas
Prior Commodity & Demand Amortization**

Line
No.

Line No.	Jul-19 A	Aug-19 B	Sep-19 C	Oct-19 D	Nov-19 E	Dec-19 F	Jan-20 G	Feb-20 H	Mar-20 I	Apr-20 J	May-20 K	Jun-20 L	SUM (A:L) M
1	Current prior amortization rate, \$/therm (source: deferral sheets)												
2	BLENDED RATE (\$0.064003) (\$0.064003) (\$0.064003) (\$0.064003) (\$0.064003) (\$0.064003) (\$0.064003) (\$0.064003)												
3	Interest Rate, %, Re: authorizing order 12-437, UG 221 3.740% 3.740% 3.740% 3.740% 3.740% 3.740% 3.740% 3.740%												
4	Ending balance, 6/30/2019, \$ NA												
9	-	-	-	-	-	11,928,169	14,596,060	11,491,915	11,204,797	8,957,499	4,626,764	3,701,612	66,506,816
11	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (763,439)	\$ (934,192)	\$ (735,517)	\$ (717,141)	\$ (573,307)	\$ (296,127)	\$ (236,914)	\$ (4,256,636)
13	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,626	\$ 14,253	\$ 10,600	\$ 9,029	\$ 6,561	\$ 4,979	\$ 3,924	\$ 65,971
15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	\$ -	\$ -	\$ -	\$ -	\$ 5,234,050	\$ 4,487,237	\$ 3,567,299	\$ 2,842,382	\$ 2,134,270	\$ 1,567,524	\$ 1,276,376	\$ 1,043,386	\$ 22,152,524
19	-	-	-	-	-	-	-	-	-	-	-	-	-
21	Demand therms - Interruptible (for nwn)												
23	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
25	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Cascade Natural Gas
Development of Gas Cost Related PGA Temporary Rate Increments
State of Oregon

Ln No.	Account Description (a)	Order (b)	Class (c)	New or Residual (d)	Account Balance 6/30/2020 (e)	Estimated Thru 10/31/20		Interest Accruals Thru Amortization (h)	Balance for Amortization (i)	Forecasted Therms (j)	Increment (k)	TEMPORARY INCREMENT		
						Interest Accruals (f)	Amortizations & Deferrals (g)					Firm (l)	Interruptible (m)	
1	Commodity Cost Deferrals (47OR.2530.01272) (See Commodity Cost Deferral)	19-371	Core	New	\$5,079,053	\$125,579		\$54,982	\$ 5,259,614					
2	Prior gas cost amortization to be included in increment (47OR.2530.01287) (See GC Consolidated Deferral)	19-371	Core	Residual	\$1,043,386	\$10,297	(\$845,012)	\$2,204	\$ 210,876					
3	Subtotal				\$6,122,438	\$135,876	(\$845,012)	\$57,187	\$5,470,489	87,408,383	0.06259	0.06259	0.06259	0.06259
4	Demand Cost Deferrals (47OR.2530.01273) (See Demand Cost Deferral)	19-371	Core	New	(\$2,667,112)	(\$65,944)		(\$28,872)	\$ (2,761,928)	87,408,383	(0.03160)	(0.03160)	(0.03160)	(0.03160)
5	SUBTOTAL AMORTIZATION RATES BEFORE REVENUE SENSITIVE COSTS											0.03099	0.03099	0.03099
6	REVENUE REQUIREMENT BEFORE REVENUE SENSITIVE COSTS				\$ 3,455,326	\$ 69,932	\$ (845,012)	\$ 28,314	\$ 2,708,561					
7	REVENUE SENSITIVE COST PERCENTAGES:								3.053%				0.03053	0.03053
8	REVENUE REQUIREMENT AFTER REVENUE SENSITIVE COSTS								\$ 2,793,857					
9	PROPOSED AMORTIZATION RATE INCLUDING REVENUE SENSITIVE COSTS												\$ 0.03196	\$ 0.03196
10	NEW WACOG - Commodity (from sch. 4)												\$ 0.21515	\$ 0.21515
11	NEW Demand Rates (from sch. 5)												\$ 0.14604	\$ 0.14604
12	NEW Delivered WACOG (gas only) rate												\$ 0.36119	\$ 0.36119
13	Total Gas Cost Rate before Revenue Sensitive												\$ 0.38115	\$ 0.39315

State:	Oregon
Description:	Core Market Commodity Costs
Account number:	47OR.2530.01272
Class of Customers:	Core
Deferral Period:	7/1/2019 to 6/30/2020
Deferral Account Order:	N/A
Amortization Period:	
Narrative:	Deferral of 90% of the difference between core commodity gas costs actually incurred and the average monthly base commodity gas cost as defined in rate schedule 177-A.

<i>Debit (Credit)</i>								
Month/Year	Rate	Therms	Deferral	Amortization	Interest Rate	Interest	Adjustments	Deferred Balance
Balance Forward								8,600,713.72
Jul-19			60,762.79		0.07270	53,105.28	(38.00)	8,714,543.79
Aug-19			175,699.59		0.07270	53,808.13	(570.11)	8,943,481.40
Sep-19			119,424.72		0.07270	53,440.36	(5,902.24)	9,110,444.25
Oct-19			631,075.41		0.07270	56,252.63	12,029.55	9,809,801.83
						TRANSFER BALANCE TO 01287	(8,813,365.36)	996,436.47
Nov-19			629,258.85		0.07270	5,954.05	(40.15)	1,631,609.22
Dec-19			1,745,820.30		0.07270	10,074.40	(117.76)	3,387,386.16
Jan-20			1,183,955.34		0.07270	20,915.49		4,592,256.99
Feb-20			485,540.29		0.07270	26,525.63	(2,206.38)	5,102,116.53
Mar-20			50,224.29		0.07270	31,503.12	0.00	5,183,843.94
Apr-20			(96,094.42)		0.07270	30,975.24	(1,595.31)	5,117,129.46
May-20			(72,959.31)		0.07270	31,595.82		5,075,765.97
Jun-20			(26,290.96)		0.07270	30,329.44	(751.88)	5,079,052.58
Jul-20 est.			0.00		0.07270	31,360.71		5,110,413.30
Aug-20 est.			0.00		0.07270	31,554.35		5,141,967.65
Sep-20 est.			0.00		0.07270	30,725.02		5,172,692.67
Oct-20 est.					0.07270	31,938.90		5,204,631.56
Nov-20 est.		10,595,849		(637,583)	0.02630	11,250.56		4,578,299.41
Dec-20 est.		15,128,621		(910,333)	0.02630	10,226.54		3,678,193.31
Jan-21 est.		13,932,580		(838,363)	0.02630	8,215.98		2,848,045.87
Feb-21 est.		11,148,233		(670,821)	0.02630	5,951.25		2,183,175.87
Mar-21 est.		8,649,613		(520,472)	0.02630	4,876.56		1,667,580.33
Apr-21 est.		6,272,441		(377,431)	0.02630	3,604.71		1,293,754.23
May-21 est.		4,183,170		(251,713)	0.02630	2,889.86		1,044,930.71
Jun-21 est.		2,862,755		(172,260)	0.02630	2,258.77		874,929.28
Jul-21 est.		2,442,037		(146,944)	0.02630	1,954.33		729,939.22
Aug-21 est.		2,441,965		(146,940)	0.02630	1,630.46		584,629.63
Sep-21 est.		3,342,308		(201,116)	0.02630	1,263.76		384,777.11
Oct-21 est.		6,408,811		(385,637)	0.02630	859.48		0.00
Therms Nov-Oct 2021		87,408,383						0.00
Development of Amortization Rate								(0.06017)
June 30, 2020 Balance							5,079,052.58	
Interest through Oct 31, 2020							125,578.98	
Interest During Amortization Period (Nov 1, 2020 through Oct 31, 2021)							54,982.25	
Balance to Amortize							<u>5,259,613.81</u>	
								(0.06017)

State:	Oregon
Description:	OR 11/01/16 Consolidated Accounts: Gas Cost Related PGA Temporary Rate Increments
Account number:	47OR.2530.01287
Class of Customers:	Core
Deferral Period:	
Deferral Account Order:	
Amortization Period:	11/1/2019 through 10/31/2020
Narrative:	This records the consolidated deferral accounts corresponding to the temporary technical adjustments included in the PGA tracker effective 11/1/2016 that are incorporated into the customers' per therm gas rates through schedule 191.

Month/Year	Rate	Therms	Deferral	Amortization	Debit (Credit)		Adjustments	Deferred Balance
					Interest Rate	Interest		
Oct-19	Balance Forward							5,250,375.11
Nov-19	Prorated	8,390,002		(32,464.58)	0.03740	16,139.51		5,234,050.04
Dec-19	(0.064003)	11,928,169		(763,438.67)	0.03740	16,625.64		4,487,237.01
Jan-20	(0.064003)	14,596,060		(934,191.64)	0.03740	14,253.43		3,567,298.80
Feb-20	(0.064003)	11,491,915		(735,517.04)	0.03740	10,600.25		2,842,382.01
Mar-20	(0.064003)	11,204,797		(717,140.62)	0.03740	9,028.65		2,134,270.04
Apr-20	(0.064003)	8,957,499		(573,306.81)	0.03740	6,560.69		1,567,523.92
May-20	(0.064003)	4,626,764		(296,126.78)	0.03740	4,979.14		1,276,376.28
Jun-20	(0.064003)	3,701,612		(236,914.27)	0.03740	3,923.55		1,043,385.57
Jul-20	est. (0.064003)	2,340,099		(149,773.36)	0.03740	3,314.25		896,926.46
Aug-20	est. (0.064003)	2,319,649		(148,464.49)	0.03740	2,849.03		751,311.00
Sep-20	est. (0.064003)	2,800,854		(179,263.06)	0.03740	2,309.51		574,357.45
Oct-20	est. (0.064003)	5,742,085		(367,510.67)	0.03740	1,824.41		208,671.20
Nov-20	est. (0.00241)	10,595,849		(25,562.84)	0.02630	451.07		183,559.43
Dec-20	est. (0.00241)	15,128,621		(36,498.30)	0.02630	410.02		147,471.15
Jan-21	est. (0.00241)	13,932,580		(33,612.81)	0.02630	329.41		114,187.75
Feb-21	est. (0.00241)	11,148,233		(26,895.48)	0.02630	238.61		87,530.87
Mar-21	est. (0.00241)	8,649,613		(20,867.48)	0.02630	195.52		66,858.91
Apr-21	est. (0.00241)	6,272,441		(15,132.47)	0.02630	144.53		51,870.96
May-21	est. (0.00241)	4,183,170		(10,092.04)	0.02630	115.86		41,894.79
Jun-21	est. (0.00241)	2,862,755		(6,906.49)	0.02630	90.56		35,078.86
Jul-21	est. (0.00241)	2,442,037		(5,891.50)	0.02630	78.36		29,265.72
Aug-21	est. (0.00241)	2,441,965		(5,891.32)	0.02630	65.37		23,439.77
Sep-21	est. (0.00241)	3,342,308		(8,063.43)	0.02630	50.67		15,427.01
Oct-21	est. (0.00241)	6,408,811		(15,461.47)	0.02630	34.46		(0.00)
2020/21 PGA Year Therms		87,408,383					Balance at end of Amort Period:	(0.00)
							Amort Rate to Achieve This:	(0.00241)

Development of Amortization Rate

June 30, 2020 Balance	1,043,385.57
Interest through Oct 31, 2020	10,297.20
Amortizations through Oct 31, 2020	(845,011.58)
Interest During Amortization Period (Nov 1, 2020 through Oct 31, 2021)	2,204.42
Balance to Amortize	<u>210,875.62</u>
	(0.00241)

State:	Oregon
Description:	Core Market Demand & Gas Storage Mitigation Costs
Account number:	47OR.2530.01273
Class of Customers:	Core
Deferral Period:	7/1/2019 to 6/30/2020
Deferral Account Order:	N/A
Amortization Period:	N/A
Narrative:	This records the deferral of the differences between core demand costs actually incurred and the embedded demand costs collected in the tariffs as well as the Tenaska capacity reservation and gas storage mitigation costs based on therms.

Month/Year	Rate	Therms	Deferral	Amortization	Interest Rate	Interest	Adjustments	Deferred Balance
Balance Forward								(3,724,670.44)
Jul-19			290,332.60		0.07270	(22,998.05)		(3,457,335.89)
Aug-19			732,597.46		0.07270	(21,347.39)		(2,746,085.82)
Sep-19			(1,791,136.00)		0.07270	(16,408.80)		(4,553,630.61)
Oct-19			(617,363.71)		0.07270	(28,116.49)		(5,199,110.82)
							3,816,762.48	(1,382,348.34)
Nov-19			(345,218.73)		0.07270	(8,260.00)	(6,718.25)	(1,742,545.32)
Dec-19			(569,084.51)		0.07270	(10,759.38)		(2,322,389.21)
Jan-20			(688,931.13)		0.07270	(14,339.64)		(3,025,659.98)
Feb-20			(369,456.87)		0.07270	(17,476.71)		(3,412,593.56)
Mar-20			(160,147.35)		0.07270	(21,071.13)		(3,593,812.04)
Apr-20			343,189.60		0.07270	(21,474.26)		(3,272,096.70)
May-20			294,823.06		0.07270	(20,203.63)		(2,997,477.27)
Jun-20			348,276.12		0.07270	(17,910.95)		(2,667,112.09)
Jul-20 est.					0.07270	(16,468.14)		(2,683,580.23)
Aug-20 est.					0.07270	(16,569.82)		(2,700,150.05)
Sep-20 est.					0.07270	(16,134.32)		(2,716,284.37)
Oct-20 est.					0.07270	(16,771.75)		(2,733,056.13)
Nov-20 est.		10,595,849		334,807.43	0.02630	(5,907.89)		(2,404,156.59)
Dec-20 est.		15,128,621		478,033.88	0.02630	(5,370.16)		(1,931,492.87)
Jan-21 est.		13,932,580		440,241.39	0.02630	(4,314.37)		(1,495,565.86)
Feb-21 est.		11,148,233		352,261.65	0.02630	(3,125.12)		(1,146,429.31)
Mar-21 est.		8,649,613		273,310.31	0.02630	(2,560.78)		(875,679.78)
Apr-21 est.		6,272,441		198,196.47	0.02630	(1,892.91)		(679,376.22)
May-21 est.		4,183,170		132,179.73	0.02630	(1,517.52)		(548,714.00)
Jun-21 est.		2,862,755		90,457.28	0.02630	(1,186.12)		(459,442.85)
Jul-21 est.		2,442,037		77,163.44	0.02630	(1,026.26)		(383,305.68)
Aug-21 est.		2,441,965		77,161.16	0.02630	(856.19)		(307,000.71)
Sep-21 est.		3,342,308		105,610.18	0.02630	(663.63)		(202,054.16)
Oct-21 est.		6,408,811		202,505.49	0.02630	(451.33)		0.00
2020/21 PGA Year Therms		87,408,383						0.00
								Balance at end of Amort Period:
								Amort Rate to Achieve This:
								0.031598
Development of Amortization Rate								
June 30, 2020 Balance							(2,667,112.09)	
Interest through Oct 31, 2020							(65,944.03)	
Interest During Amortization Period (Nov 1, 2020 through Oct 31, 2021)							(28,872.28)	
							<u>(2,761,928.41)</u>	
								0.031598

Cascade Natural Gas Corporation
2020-2021 PGA
New WACOG Commodity

SYSTEM COSTS

1	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
2			November	December	January	February	March	April	May	June	July	August	September	October	TOTAL
3			1	2	3	4	5	6	7	8	9	10	11	12	
4	COSTS														
5	Supply Commodity Cost		\$2,013,669	\$2,865,664	\$2,610,843	\$2,243,508	\$1,812,509	\$1,215,949	\$806,858	\$552,467	\$480,635	\$483,468	\$676,776	\$1,222,160	\$16,984,507
6	tab IV-4 Phys resources, row 935, columns G to S														
7	Volumetric Pipeline Chgs		\$30,696.77	\$34,848.21	\$34,216.40	\$31,383.49	\$29,012.50	\$26,863.61	\$3,321.04	\$2,303.05	\$1,975.77	\$1,975.33	\$2,674.19	\$5,118.23	\$204,388.58
8	tab OR Pipeline Comm Costs by Month, row 30 & 58 D to O														
9	Commodity Cost from Storage		\$74,969	\$273,402	\$382,791	\$172,992	\$57,083	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$961,237
10	tab V4-7-g Stor Flow & Avg Cost, row 59, column e through p														
11	Other Costs & Miscellaneous Changes		\$0	\$40,800	\$40,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$81,601
12	tab Supply Rsv Chrg and state alloc, row 26														
13	Total Commodity Cost		\$2,119,334	\$3,214,715	\$3,068,651	\$2,447,883	\$1,898,605	\$1,242,813	\$810,179	\$554,770	\$482,611	\$485,444	\$679,450	\$1,227,278	\$18,231,734
14	VOLUMES														
15	Pipeline Commodity at Receipt Points		10,547,756	14,710,494	13,623,959	11,227,628	8,954,321	6,432,118	4,386,809	2,999,221	2,541,323	2,543,753	3,549,594	6,404,558	87,921,534
17	Pipeline Fuel Use		48,093	418,127	308,621	(79,395)	(304,708)	(159,677)	(203,639)	(136,466)	(99,286)	(101,788)	(207,286)	4,253	(513,151)
18	Total Pipeline Gas Arriving at City Gate		10,595,849	15,128,621	13,932,580	11,148,233	8,649,613	6,272,441	4,183,170	2,862,755	2,442,037	2,441,965	3,342,308	6,408,811	87,408,383
19	Storage Gas Deliveries														0
20	Total Gas At Citygate (Storage and Pipeline)		10,595,849	15,128,621	13,932,580	11,148,233	8,649,613	6,272,441	4,183,170	2,862,755	2,442,037	2,441,965	3,342,308	6,408,811	87,408,383
21															
22	Unaccounted for Gas														0
23															
24	Load Served		10,595,849	15,128,621	13,932,580	11,148,233	8,649,613	6,272,441	4,183,170	2,862,755	2,442,037	2,441,965	3,342,308	6,408,811	87,408,383
25															
26	Annual Sales WACOG														\$0.208581
27															
28	OREGON Sales WACOG with Revenue Sensitive														\$0.21515

Cascade Natural Gas Corporation
 2020-2021 PGA - OREGON
 Derivation of Oregon per Therm Non-Commodity Charges

Oregon Derivation of Demand Increments

		Without Revenue Sensitive	With Revenue Sensitive
	(a)	(c)	(d)
1			
2			
3			
4	System Demand for Allocation	\$ 54,397,938	
5	Oregon Allocation Factor (Based on Peak Day)	19.11%	
6	Oregon Allocated Demand Costs	\$10,393,806	
7	Ruby Demand for Allocation	\$2,025,000	
8	Oregon Allocation Factor (Based Non-NWP Allocation)	88.31%	
9	Oregon Ruby Allocated System Demand	\$1,788,198	
10	Plus Demand Costs -Central Oregon	\$1,387,128	
11	Less Oregon Capacity Release Credits	(\$1,193,481)	
12	OREGON DEMAND COSTS	\$12,375,652	\$ 12,765,379
13			
14	Oregon Sales Forecasted Normal Volumes	87,408,383	87,408,383
15			
16	Proposed Demand Increment Per Therm (line 12/line 14)	\$0.141580	\$0.146039
17			
18	Current Firm Demand Per Therm	\$0.15400	\$0.158845
19			
20	Percent Change in Firm Demand	-8.06%	-8.06%
21			
22			
23	1/Allocation Factor: Forecasted Peak Volumes (excl. Central Oregon):		
24		<u>Washington</u>	<u>Oregon</u>
25			<u>System</u>
26	Total Peak	2,246,491	1,018,895
27	Less Central Oregon		721,404
28	Peak Day Capacity	2,246,491	297,490.85
29	Allocation Factor	88.31%	11.69%
			100.00%

Cascade Natural Gas Corporation
2020-2021 PGA - OREGON
Summary of Rate and Revenue Impact

(a)	(b)	Without Revenue Sensitive (c)	With Revenue Sensitive (d)
<u>PROPOSED PER THERM RATE CHANGES</u>			
1 Proposed Commodity WACOG		0.20858	0.21515
2 Current Commodity WACOG		0.175621	0.181146
3 Proposed Rate Change-Commodity WACOG		0.03296	0.03400
4			
5 Proposed Firm Demand Per Therm		0.14158	0.14604
6 Current Firm Demand Per Therm		0.154000	0.158845
7 Proposed Rate Change-Firm Demand WACOG		(0.01242)	(0.01281)
8			
9 Proposed Temporary Rate Increment		0.030987	0.03196
Current Temporary Rate Increment		0.064003	0.066015
Proposed Rate Change-Temporary Rate Increment		(0.03302)	(0.03405)
10			
11 TOTAL PROPOSED PGA RATE CHANGE			(0.01286)
12			
13 Oregon Forecasted Therm Sales		87,408,383	
14			
15 <u>REVENUE IMPACT</u>			
16			
17 Commodity Cost Change			2,972,203
18 Demand Cost Change			(1,119,370)
19			
20 Amortization of Commodity and Demand Cost Differences			(2,976,494.32)
21			
22 Total Revenue Impact Due to PGA Filing			(1,123,662)
23			
24 Operating Revenues for 12 Month Period Ending 12/31/19			67,070,587
25			
26 PERCENTAGE CHANGE IN REVENUES DUE TO PGA FILING			-1.68%

**Before the
PUBLIC UTILITY COMMISSION OF OREGON**

EXHIBIT 2

Summary of Proposed Changes

Summary of Total Proposed Rates (Schedule 1 of 4)
Total Proposed Rates Impact on Average Bill by Rate Schedule (Schedule 2 of 4)
Notice to the Public (Schedule 3 of 4)
What is a PGA (Schedule 4 of 4)

Cascade Natural Gas Corporation

July 31, 2020

Cascade Natural Gas Corporation
SUMMARY OF TOTAL PROPOSED RATES
STATE OF OREGON

Ln No.	Customer Class	Schedule	Block	Current 11/1/2019 Rate	Total Proposed Changes				Total Change = e thru h	Proposed 11/1/2020 Rate = d + i
					PGA Base Gas Cost	CAP Baseline Adj	Non Gas Cost Temporary Rate Adj			
							Remove 19	Add New		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
CORE MARKET SERVICE										
1	Residential	101		\$0.728236	(\$0.01286)		\$0.02255	(\$0.00681)	\$0.00288	\$0.73112
2	Commercial	104		\$0.619497	(\$0.01286)		\$0.02412	(\$0.00791)	\$0.00335	\$0.62285
3	Com-Ind Dual	111		\$0.556108	(\$0.01286)		(\$0.00111)	\$0.00071	(\$0.01326)	\$0.54285
4	Industrial Firm	105		\$0.619790	(\$0.01286)		(\$0.00111)	\$0.00071	(\$0.01326)	\$0.60653
5	Industrial Interruptible	170		\$0.523887	(\$0.01286)		(\$0.00111)	\$0.00071	(\$0.01326)	\$0.51063
NONCORE MARKET SERVICE										
6	Distribution Transportation	163	First 10,000	\$0.125581	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.12518
7	Distribution Transportation	163	Next 10,000	\$0.113019	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.11262
8	Distribution Transportation	163	Next 30,000	\$0.106024	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.10562
9	Distribution Transportation	163	Next 50,000	\$0.064056	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.06366
10	Distribution Transportation	163	Next 400,000	\$0.031141	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.03074
11	Distribution Transportation	163	Next 500,000	\$0.015413	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.01501
			Over 1,000,000	\$0.015413	\$0.00000	\$0.00000	(\$0.00111)	\$0.00071	(\$0.00040)	\$0.01501

Cascade Natural Gas Corporation
TOTAL PROPOSED RATES IMPACT ON AVERAGE BILL BY RATE SCHEDULE
STATE OF OREGON

Ln No.	Customer Class	Schedule	Therms in Block	Normalized Volumes	Average Customers	Therms Per Month	Monthly Charge	Current 11/1/2019 Rate	Current Avg Bill	Total Proposed 11/1/2020 Rate	Total Proposed Avg Bill	Monthly Change in Avg Bill	Proposed Rates % Change
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	
					= d / e			= g + (f * h)		= g + (f * j)		= l / i	
CORE MARKET SERVICE													
1	Residential	101		48,068,008	66,663	60	\$5.00	\$0.728236	\$48.69	\$0.73112	\$48.87	\$0.17	0.36%
2	Commercial	104		30,790,407	10,176	252	\$10.00	\$0.619497	\$166.11	\$0.62285	\$166.96	\$0.85	0.51%
3	Com-Ind Dual	111		3,125,945	20	13,025	\$125.00	\$0.556108	\$7,368.31	\$0.54285	\$7,195.66	(\$172.65)	-2.34%
4	Industrial Firm	105		3,048,165	150	1,693	\$30.00	\$0.619790	\$1,079.30	\$0.60653	\$1,056.86	(\$22.44)	-2.08%
5	Industrial Interruptible	170		2,566,023	4	53,459	\$300.00	\$0.523887	\$28,306.48	\$0.51063	\$27,597.86	(\$708.62)	-2.50%
NONCORE MARKET SERVICE													
6	Distribution Transportation	163	10,000	4,489,047	34		\$625.00	\$0.125581	\$1,880.81	\$0.12518	\$1,876.81		
7	Distribution Transportation	163	10,000	2,514,232				\$0.113019	\$1,130.19	\$0.11262	\$1,126.19		
8	Distribution Transportation	163	30,000	4,237,554				\$0.106024	\$3,180.72	\$0.10562	\$3,168.72		
9	Distribution Transportation	163	50,000	5,192,809				\$0.064056	\$2,313.89	\$0.06366	\$2,299.45		
10	Distribution Transportation	163	400,000	17,271,191				\$0.031141		\$0.03074			
11	Distribution Transportation	163	500,000	1,433,306				\$0.015413		\$0.01501			
12	Total		Over 1,000,000										
13				35,138,139		86,123			\$8,505.61		\$8,471.17	(\$34.45)	-0.41%

DRAFT

Advice No. CNG\O20-07-01

Cascade Natural Gas Corporation

NOTICE TO THE PUBLIC

Oregon Service Area

Cascade Natural Gas Corporation is on this date filing with the Oregon Public Utility Commission (OPUC) at Salem, Oregon, revisions to Rate Schedule Nos. 177, 191, 192, and 193, which upon approval by the Commission will become effective November 1, 2020.

The rate adjustments proposed in this filing are designed to pass on 1.) changes in the cost of gas and transportation services paid by Cascade to gas suppliers and interstate natural gas pipelines, temporary differences in purchased gas costs, that occur over time, as a result of differences between the actual cost of gas paid by the Company and the amount allowed for in Core customer rates, and removal of certain technical deferral refunds that have expired; and 2.) changes resulting from the Company's Conservation Alliance Plan.

The overall effect of the proposed rate adjustments on the monthly bill of a residential customer with consumption of 60 therms will be a net increase of \$0.17 or 0.36%. For small commercial customers, the increase in the monthly bill for consumption of 252 therms will be \$0.85 or 0.51%. Large volume core customers will experience an average decrease of 2.08% depending on monthly volumes consumed. Large volume interruptible customers will experience an average decrease of 2.50%. Large volume non-core customers will experience an average decrease of 0.41% for distribution service from Cascade depending on the monthly volumes consumed.

By: Michael Parvinen
Director, Regulatory Affairs

Date: October 1, 2020

What is a PGA?

In the natural gas industry, PGA means Purchased Gas Adjustment. Simply stated, a PGA is designed to reflect the actual costs of gas supplies in customers' bills. A PGA filing does not affect the company's profits.

Each year, Cascade Natural Gas Corporation makes the best possible projection of the cost of gas supplies for the coming year. Any differences between the gas costs included in the company's overall rates and the actual cost of supplies are calculated and passed back to customers in the next PGA filing.

If actual gas costs are lower than originally projected, customers will see lower rates. If gas costs are higher, rates will go up.

Based on projected gas costs, Cascade Natural Gas is anticipating an increase to rates for Washington customers and anticipating a slight increase or decrease for Oregon customers in its PGA filing. Cascade Natural Gas encourages you to use energy wisely and continue your conservation efforts. For valuable energy efficiency information, visit www.cngc.com/energy-efficiency.



In the Community to Serve®

888-522-1130
www.cngc.com

Exhibit 2



08/2020

**Before the
PUBLIC UTILITY COMMISSION OF OREGON**

EXHIBIT 3

Attachments to Staff's Public Meeting Memos

Attachment A - Incremental Change to Revenue by Rate Schedule

Attachment B - Incremental Change to Revenue by Adjustment

Attachment C - Three Percent Test

Attachment D - Bill Impacts

Cascade Natural Gas Corporation

July 31, 2020

**Cascade Natural Gas
2020 PGA
Incremental Revenue Change by Customer Rate Schedule
Attachment A**

Customer Rate Schedule	Description	Gas Cost & Adjustment Schedule Total Revenue at Current ¹	Gas Cost & Adjustment Schedule Total Revenue at Proposed	Total Incremental Change in Revenue	Incremental Percentage Change by Rate Schedule	Percent Contribution to Total Incremental Change
101	Residential	36,030,225	36,168,163	137,938	0.38%	127.35%
104	Commercial	19,485,969	19,588,798	102,829	0.53%	94.93%
105	Industrial	1,972,943	1,931,624	(41,319)	-2.09%	-38.15%
111	Large Volume	1,796,442	1,754,325	(42,117)	-2.34%	-38.88%
170	Interruptible	1,400,022	1,365,064	(34,958)	-2.50%	-32.27%
163	Transportation	2,325,270	2,311,214	(14,055)	-0.60%	-12.98%
		63,010,871	63,119,188	108,318	0.17%	100.00%

Notes:

¹ Revenue at "Current" does not reflect current revenues, but rather what the revenues would be if existing rates continued to be in effect during the upcoming year (i.e. current rates times forecasted therms). There will be small differences with the Advice filings.

Customer Schedule No.	Rate Class Type	Block	Adjustment Tariff No. 177.2 PGA Gas Costs WACOG		Margin (Base Rate) 101/104/105/111/112/126 /170/163		Adjustment Tariff No. 191 Temporary Gas		Adjustment Tariff No. 192 Intervenor		Adjustment Tariff No. 193 Conservation		2020-2021		Change in		
			Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Forecast Therms	Revenue at Current	Revenue at Proposed	Revenue	% Change
101	Residential		\$0.339991	0.36119	\$ 0.36997	0.36997	\$ 0.066015	0.031962	#####	0.00110	\$ (0.02412)	(0.00791)	47,821,850	\$36,030,225	\$36,168,163	\$137,938	0.38%
104	Commercial		\$0.339991	0.36119	\$ 0.25377	0.25377	\$ 0.066015	0.031962	\$ -	0.00000	\$ (0.02412)	(0.00791)	30,654,897	\$19,485,969	\$19,588,798	\$102,829	0.53%
105	Industrial		\$0.339991	0.36119	\$ 0.22582	0.22582	\$ 0.066015	0.031962	#####	0.00071	\$ -	0.00000	3,117,129	\$1,972,943	\$1,931,624	(\$41,319)	-2.09%
111	Large Volume		\$0.339991	0.36119	\$ 0.15828	0.15828	\$ 0.066015	0.031962	#####	0.00071	\$ -	0.00000	3,177,316	\$1,796,442	\$1,754,325	(\$42,117)	-2.34%
170	Interruptible		\$0.339991	0.36119	\$ 0.12376	0.12376	\$ 0.066015	0.031962	#####	0.00071	\$ -	0.00000	2,637,192	\$1,400,022	\$1,365,064	(\$34,958)	-2.50%
163	Transportation	Block 1	\$ -	0.00000	\$0.128328	0.12833	\$ -	0.00000	#####	0.00071	\$ -	0.00000	4,489,047	\$581,053	\$579,258	(\$1,796)	-0.31%
		Block 2	\$ -	0.00000	\$0.115766	0.11577	\$ -	0.00000	#####	0.00071	\$ -	0.00000	2,514,232	\$293,853	\$292,848	(\$1,006)	-0.34%
		Block 3	\$ -	0.00000	\$0.108771	0.10877	\$ -	0.00000	#####	0.00071	\$ -	0.00000	4,237,554	\$465,627	\$463,932	(\$1,695)	-0.36%
		Block 4	\$ -	0.00000	\$0.066803	0.06680	\$ -	0.00000	#####	0.00071	\$ -	0.00000	5,192,809	\$352,659	\$350,582	(\$2,077)	-0.59%
		Block 5	\$ -	0.00000	\$0.033888	0.03389	\$ -	0.00000	#####	0.00071	\$ -	0.00000	17,271,191	\$604,457	\$597,549	(\$6,908)	-1.14%
		Block 6		0.00000	\$0.018160	0.01816			#####	0.00071			1,433,306	\$27,620	\$27,046	(\$573)	
		Block 7	\$ -	0.00000	\$0.018160	0.01816	\$ -	0.00000	#####	0.00071	\$ -	0.00000		\$0	\$0	\$0	0.00%

**Cascade Natural Gas
2020 PGA
Incremental Revenue Change by Adjustment Schedule
Attachment B**

Adjustment Schedule No. & Description	Gas Cost & Adjustment Schedule Revenue at Current ¹	Gas Cost & Adjustment Revenue at Proposed	Total Incremental Change in Revenue	% Contribution to Total Incremental Change
177-A PGA	\$29,718,065	\$31,570,871	\$1,852,806	1710.54%
191 Temporary Gas Cost Adj	\$5,770,264	\$2,793,771	(\$2,976,493)	-2747.95%
192 Intervenor Funding	\$123,998	\$83,894	(\$40,104)	-37.02%
193 CAP	(\$1,892,859)	(\$620,751)	\$1,272,108	1174.43%
194-B Other Residual	\$0	\$0	\$0	0.00%
Margin	\$29,265,375	\$29,265,375	\$0	0.00%
			\$0	0.00%
			\$0	0.00%
Total	\$62,984,843	\$63,093,160	\$108,317	100.00%

Note:

¹ Revenue at "Current" does not reflect current revenues, but rather what the revenues would be if existing rates continued to be in effect during the upcoming year (i.e. current rates times forecasted therms). There will be small differences with the Advice filings.

Adjustment Schedule No.		2020-2021								
Advice No.	Description	Schedule No.	Rate Class Type	Block	Current Rate	Proposed Rate	Proposed Therms	Revenue at Current	Revenue at Proposed	Change in Revenue
		101	Residential		\$ 0.33999	0.36119	47,821,850	\$16,258,999	\$17,272,685	\$1,013,686
		104	Commercial		\$ 0.33999	0.36119	30,654,897	\$10,422,389	\$11,072,185	\$649,796
		105	Industrial		\$ 0.33999	0.36119	3,117,129	\$1,059,796	\$1,125,870	\$66,074
		111	Large Volume		\$ 0.33999	0.36119	3,177,316	\$1,080,259	\$1,147,609	\$67,350
		170	Interruptible		\$ 0.33999	0.36119	2,637,192	\$896,622	\$952,522	\$55,900
Advice O17-07-01	177-A PGA						Total	\$29,718,065	\$31,570,871	\$1,852,806
		101	Residential		\$ 0.06602	0.03196	47,821,850	\$3,156,959	\$1,528,495	(\$1,628,464)
		104	Commercial		\$ 0.06602	0.03196	30,654,897	\$2,023,683	\$979,800	(\$1,043,883)
		105	Industrial		\$ 0.06602	0.03196	3,117,129	\$205,777	\$99,631	(\$106,146)
		111	Large Volume		\$ 0.06602	0.03196	3,177,316	\$209,751	\$101,554	(\$108,197)
		170	Interruptible		\$ 0.06602	0.03196	2,637,192	\$174,094	\$84,291	(\$89,803)
Advice O17-07-01	191 Temp Gas Cost						Total	\$5,770,264	\$2,793,771	(\$2,976,493)
		101	Residential		\$ 0.00157	0.00110	47,821,850	\$75,080	\$52,604	(\$22,476)
		104	Commercial		\$ -	0.00000	30,654,897	\$0	\$0	\$0
		105	Industrial		\$ 0.00111	0.00071	3,117,129	\$3,460	\$2,213	(\$1,247)
		111	Large Volume		\$ 0.00111	0.00071	3,177,316	\$3,527	\$2,256	(\$1,271)
		170	Interruptible		\$ 0.00111	0.00071	2,637,192	\$2,927	\$1,872	(\$1,055)
		163	Distribution	Block 1	\$ 0.00111	0.00071	4,489,047	\$4,983	\$3,187	(\$1,796)
				Block 2	\$ 0.00111	0.00071	2,514,232	\$2,791	\$1,785	(\$1,006)
				Block 3	\$ 0.00111	0.00071	4,237,554	\$4,704	\$3,009	(\$1,695)
				Block 4	\$ 0.00111	0.00071	5,192,809	\$5,764	\$3,687	(\$2,077)
				Block 5	\$ 0.00111	0.00071	17,271,191	\$19,171	\$12,263	(\$6,908)
				Block 6	\$ 0.00111	0.00071	1,433,306	\$1,591	\$1,018	(\$573)
				Block 7	\$ 0.00111	0.00071	0	\$0	\$0	\$0
Advice No. O17-07-02	192 Intervenor						Total	\$123,998	\$83,894	(\$40,104)
		101	Residential		\$ (0.02412)	(0.00791)	47,821,850	(\$1,153,463)	(\$378,271)	\$775,192
		104	Commercial		\$ (0.02412)	(0.00791)	30,654,897	(\$739,396)	(\$242,480)	\$496,916
Advice No. O17-07-03	193 CAP						Total	(\$1,892,859)	(\$620,751)	\$1,272,108
		101	Residential		\$ 0.36997	0.36997	47,821,850	\$17,692,650	\$17,692,650	\$0
		104	Commercial		\$ 0.25377	0.25377	30,654,897	\$7,779,293	\$7,779,293	\$0
		105	Industrial		\$ 0.22582	0.22582	3,117,129	\$703,910	\$703,910	\$0
		111	Large Volume		\$ 0.15828	0.15828	3,177,316	\$502,906	\$502,906	\$0

Adjustment Schedule No.		2020-2021									
Advice No.	Description	Schedule No.	Rate Class Type	Block	Current Rate	Proposed Rate	Proposed Therms	Revenue at Current	Revenue at Proposed	Change in Revenue	
		170	Interruptible		\$ 0.12376	0.12376	2,637,192	\$326,379	\$326,379	\$0	
		163	Distribution	Block 1	\$ 0.12833	0.12833	4,489,047	\$576,070	\$576,070	\$0	
				Block 2	\$ 0.11577	0.11577	2,514,232	\$291,063	\$291,063	\$0	
				Block 3	\$ 0.10877	0.10877	4,237,554	\$460,923	\$460,923	\$0	
				Block 4	\$ 0.06680	0.06680	5,192,809	\$346,895	\$346,895	\$0	
				Block 5	\$ 0.03389	0.03389	17,271,191	\$585,286	\$585,286	\$0	
				Block 6	\$ 0.01816	0.01816	0	\$0	\$0	\$0	
							Total	\$29,265,375	\$29,265,375	\$0	
Advice No.	Margin										

**Cascade Natural Gas
2020-2021 PGA
Three Percent Test
Attachment C**

	Surcharge	Credit	
Prior Period Gas Cost Deferral True-Up	2,793,857		
 <u>Non-Gas Cost Amortizations</u>			
Intervenor Funding	\$83,450		
Other Residuals			
Decoupling		(621,012)	
		\$0	
		\$0	
		0	
Subtotal	83,450	(621,012)	
Total	2,877,307	(621,012)	
Total Proposed Amortization			\$2,256,295
Less: Intervenor Funding ¹			\$83,450
Net Proposed Amortizations (subject to the 3% test)			\$2,172,845
Utility Gross Revenues (2019)			\$67,070,587
3% of Utility Gross Revenues²			\$2,012,118
Allowed Amortization			\$2,172,845
Allowed Amortization as % of Gross Revenues			3.24%

¹ Intervenor Funding is excluded from the result of the 3% test pursuant to ORS 757.259(4)

² Unadjusted general revenues as shown in the most recent Results of Operation.

**Proposed Rate & Bill Increases for ALL Oregon Local Distribution Companies by Class of Service
2020-2021 PGA
Attachment D**

Class of Service	Rate Schedule	RATE IMPACTS*			
		Current Rate per Therm	Proposed Rate per Therm	Change Rate per Therm	%-Change Rate per Therm
Residential					
Avista	410	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Cascade	101	\$0.728236	\$0.731121	\$0.002885	0.40%
NW Natural	2	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Commercial					
Avista	420	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Cascade	104	\$0.619497	\$0.622852	\$0.003355	0.54%
NW Natural	3	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Industrial					
Avista	424	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Cascade	105	\$0.619790	\$0.606535	-\$0.013255	-2.1%
NW Natural	31ISF	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Interruptible					
Avista	440	\$0.000000	\$0.000000	\$0.000000	#DIV/0!
Cascade	170	\$0.523887	\$0.510632	-\$0.013255	-2.5%
NW Natural	32ISI	\$0.000000	\$0.000000	\$0.000000	#DIV/0!

RESIDENTIAL BILL IMPACTS													
	Rate Schedule	Average January Therms	Customer Charge	Current January Bill	Proposed January Bill	Change January Bill	%-Change January Bill	Annual Therms/Month	Customer Charge	Current Monthly Bill	Proposed Monthly Bill	Change Monthly Bill	%-Change Monthly Bill
Avista	410	0	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!	0	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!
Cascade	101	126	\$5.00	\$96.76	\$97.12	\$0.36	0.38%	60	\$5.00	\$48.69	\$48.87	\$0.18	0.37%
NW Natural	2	0	\$4.00	\$0.00	\$4.00	\$4.00	#DIV/0!	0	\$0.00	\$0.00	\$0.00	\$0.00	#DIV/0!

* The residential rates illustrated above do not include pass-through charges included on customer bills that utilities are required to collect and distribute to the appropriate third parties, such as for franchise fees or the Public Purposes Charge.

Cascade Natural Gas Corporation
2019 PGA
PGA Summary Sheet
Attachment E

		Location in Company Filing (cite)
1) Change in Annual Revenues		
(Per OAR 860-022-0017(3)(a))		
A) Dollars (To .1 million)	\$108,586	Proposed Rates, Total Revenue Impact
B) Percent (To .1 percent)	0.16%	1 A) /Utility Gross Revenues (2018)
2) Annual Revenues Calculation (Whole Dollars)		
A) PGA Cost Change (Commodity & Transportation)	\$1,852,833	Proposed Rates, Total Revenue Impact, 143
B) Remove Last Year's Temporary Increment Total	(\$3,086,081)	Gas Cost Worksheets, Summary Rate-Rev Impact
C) Add New Temporary Increment	\$5,500,243	Gas Cost Worksheets, Summary Rate-Rev Impact
D) Other Additions or Subtractions (Break out & List each below -- Attach additional sheet if necessary)		
E) Total Proposed Change due to PGA change only	\$4,266,995	Total of items A, B, C, & D
3) Residential Bill Effects Summary (incl. Non-Gas Cost Impacts)		
A) Residential Schedule 2 Rate Impacts		
1) Current Billing Rate per Therm	\$0.728236	Proposed Rates, Total Summary Proposed Rates, Line 1, Col. (d)
2) Proposed Billing Rate per Therm	\$0.73112	Proposed Rates, Total Summary Proposed Rates, Line 1, Col. (j)
3) Rate Change Per Therm	\$0.002885	Proposed Rates, Total Summary Proposed Rates, Line 1, Col. (i)
4) Percent Change per Therm (to .1%)	0.4%	Item 3 divided by Item 1
B) Average Residential Bill Impact (forecasted weather-normalized annual)		
1) Average Residential Monthly Therm Use	60	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (f)
2) Customer Charge	\$5.00	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (g)
3) Current Average Monthly Bill	\$48.69	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (i)
4) Proposed Average Monthly Bill	\$48.87	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (k)
5) Change in Average Monthly Bill	\$0.17	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (l)
6) Percent change in Average Monthly Bill (to .1%)	0.36%	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (m)
C) Average January Residential Bill Impact		
1) Average January Residential Use (forecasted weather-normalized)	126	(Jan Normalized therms divided by Jan Customers)
2) Customer Charge	\$5.00	Proposed Rates, Total Proposed Avg Bill, Line 1, Col. (g)
3) Current Average January Bill	\$96.76	Sum \$5.00 + (126 * \$.728236)
4) Proposed Average January Bill	\$97.12	Sum \$5.00 + (126 * \$.73112)
5) Change in Average January Bill	\$0.36	Item 4 minus Item 3
6) Percent change in Average January Bill (to .1%)	0.38%	Item 5 divided by Item 3
4) Breakdown of Costs		
A) Embedded in Rates		
1) Total Commodity Cost	\$ 14,430,064	Total of items a through f listed below
a) Total Demand Cost (assoc. w/ supply)	\$ -	
b) Total Peaking Cost (assoc. w/ supply)	\$ -	
c) Total Reservation Cost (assoc. w/ supply)	\$ 86,021	2019 PGA WP OR Gas Cost Tracking App
d) Total Volumetric Cost (assoc. w/ supply)	\$ 13,458,594	2019 PGA WP OR Gas Cost Tracking App
e) Total Storage Cost (assoc. w/ supply)	\$ 885,449	2019 PGA WP OR Gas Cost Tracking App
f) Other (A&G Benchmark Savings)		
2) Total Transportation Cost (Pipeline related)	\$ 11,558,775	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,769,944	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,769,944	2019 PGA WP OR Gas Cost Tracking App
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 7,788,832	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 7,586,567	2019 PGA WP OR Gas Cost Tracking App
ii. Total Volumetric Cost	\$ 202,264	2019 PGA WP OR Gas Cost Tracking App
3) Total Storage Costs	\$ 1,171,649	2019 PGA WP OR Gas Cost Tracking App
4) Capacity Release Credits	\$ (1,191,173)	2019 PGA WP OR Gas Cost Tracking App
5) Total Gas Costs	\$ 27,462,893	2019 PGA WP OR Gas Cost Tracking App
B) Projected For New Rates		
1) Total Commodity Cost	\$ 18,256,238	Totals of items a through g listed below
a) Total Demand Cost (assoc. w/ supply)	\$ -	
b) Total Peaking Cost (assoc. w/ supply)	\$ -	
c) Total Reservation Cost (assoc. w/ supply)	\$ 81,601	2019 PGA WP OR Gas Cost Tracking App
d) Total Vaporization Cost (assoc. w/ supply)		
e) Total Volumetric Cost (assoc. w/supply)	\$ 16,984,507	2019 PGA WP OR Gas Cost Tracking App
f) Total Storage Cost (assoc. w/supply)	\$ 1,190,130	2019 PGA WP OR Gas Cost Tracking App
g) Other (A&G Benchmark Savings)	\$ -	
2) Total Transportation Cost (Pipeline related)	\$ 11,091,625	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,585,383	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,585,383	2019 PGA WP OR Gas Cost Tracking App
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 7,506,242	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 7,301,754	2019 PGA WP OR Gas Cost Tracking App
ii. Total Volumetric Cost	\$ 204,489	2019 PGA WP OR Gas Cost Tracking App
3) Total Storage Costs	\$ 1,588,698	2019 PGA WP OR Gas Cost Tracking App
4) Capacity Release Credits	\$ (1,193,481)	2019 PGA WP OR Gas Cost Tracking App
5) Total Gas Costs	\$ 30,836,553	2019 PGA WP OR Gas Cost Tracking App

Cascade Natural Gas Corporation
2019 PGA
PGA Summary Sheet
Attachment E

PGA Summary Sheet

		Location in Company Filing (cite)
5) WACOG (Weighted Average Cost of Gas)		
A) Embedded in Rates		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.181146	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.175621	Current rate on Tariff Sheet No. 177.2
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.158845	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.154000	Current rate on Tariff Sheet No. 177.2
B) Proposed for New Rates		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.21515	Gas Cost Worksheets, Summary Rate-Rev Impact, line 1, col (d)
b. Without revenue sensitive	\$ 0.20858	Gas Cost Worksheets, Summary Rate-Rev Impact, line 1, col (c)
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.14604	Gas Cost Worksheets, Summary Rate-Rev Impact, line 5, col (d)
b. Without revenue sensitive	\$ 0.14158	Gas Cost Worksheets, Summary Rate-Rev Impact, line 5, col (c)
6) Therms Sold		
	87,408,383	Gas Cost Worksheets, Summary Rate-Rev Impact, line 13

7) Purchasing/ Hedging Strategies Prepare 1-2 page summary of gas cost situation to include resources, purchasing strategy, hedging, and pipeline issues. Within the summary include:		
A) Resources embedded in current rates and an explanation of proposed resources.		
1) Firm Pipeline Capacity		
a) Year-round supply contracts	43,725,000	See Exhibit 1 work papers, Supply Summary-Price and Types tab
b) Winter-only contracts	153,202,334	See Exhibit 1 work papers, Supply Summary-Price and Types tab
c) Reliance on Spot Gas/Other Short Term Contracts	129,854,107	See Exhibit 1 work papers, Supply Summary-Price and Types tab
d) Other - e.g. Supply area storage		
2) Market Area Storage		
a) Underground-owned	-	
b) Underground- contracted	18,355,930	See Exhibit 1 work papers, WP#6a - Summary of Pipeline Transportation Contracts
c) LNG-owned	-	
d) LNG-contracted	6,622,000	See Exhibit 1 work papers, WP#6a - Summary of Pipeline Transportation Contracts
3) Other Resources		
a) Recallable Supply		
b) City gate Deliveries		
c) Owned-Production		
d) Propane/Air	-	