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July 29, 2022

Oregon Public Utility Commission
 Attn: Filing Center
 201 High Street S.E., Suite 100
 Salem, OR 97301-3398

Re: Advice No. CNG/O22-07-02, UG 442
UM 1558, Deferred Accounting for Purchased Gas Adjustment Schedule 177,
Purchased Gas Cost Adjustment and Schedule No. 191 Temporary Gas Cost Rate
Adjustment

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 Natural Gas Corporation (“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, 2022:

Sixth Revision of Sheet No. 177.2
Sixth 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 changes proposed in this filing are due to changes 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 are 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	\$0.28120	\$0.44009	\$0.15889

Table 2 - Schedule 177.2 Demand

<u>Rate Schedule</u>	<u>Present</u>	<u>Proposed</u>	<u>Change</u>
101, 104, 105, 111, 170	\$0.15009	\$0.13647	(\$0.01362)

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	\$0.43129	\$0.57656	\$0.14527

Commodity Costs (Schedule 177.2)

As shown in Table 1, the estimated Weighted Average Cost of Gas (“WACOG”) increases \$0.15889 per therm. The proposed WACOG is \$0.44009 per therm compared to the present WACOG of \$0.28120 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 Basin combined with financial instruments when economically appropriate. Cascade has been hedging natural gas both on a periodic and discretionary basis throughout 2022 for the forthcoming PGA year (November 2022 through October 2023). In accordance with GSOC guidance, transactions cannot exceed 42 months. Cascade will continue to execute transactions for hedging purposes throughout the remainder of calendar year 2022, 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 a decrease of \$0.01362 cents per therm. This is primarily due to the forecasting methodologies first developed in the 2020 Washington Integrated Resource Plan and verified through cross-validation analysis. The new peak day forecast is more aligned with what the Company has seen historically.

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	\$0.03725	\$0.13789	\$0.10064

As shown in Table 4, the current overall amortization amount approved in the Company’s 2021 PGA is a collected rate of approximately \$0.04 per therm. Actual wholesale natural gas prices were higher than the level identified in the Company’s 2021 PGA. As a result, commodity and demand costs were under collected from customers and resulted in the deferral balance growing by approximately \$9,248,000 over last year. The proposed amortization results in a nearly \$0.14 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 2021 was \$77,563,145. The total amortization revenue requested for the “Prior Period Gas Cost Deferral” as shown in Attachment C is \$12,671,052. The resulting annual average rate impact from PGA amortization is 16.34% and does not fall within the requirements of the statute. However, the overall average impact is greater than the 3% due to natural gas commodity and pipeline transportation costs incurred in 2021 which are outside the Company’s control.

When the “Prior Period Gas Cost Deferral” is combined with the “Non-Gas Cost Amortization” related to the Company’s Conservation Alliance Plan filing made on July 29, 2022, the result is a total amortization revenue request of \$11,889,981. After removing the Intervenor Funding deferral, the net effect of combining the results of these two filings is an overall revenue change of \$11,836,823, an average rate impact of 15.26%, which does not fall within the requirements of the statute. As mentioned earlier, Cascade incurred higher commodity and demand costs in 2021.

Other Information

Pursuant to OAR 860-022-0025 and OAR 860-022-0030, Table 5 shows the annual revenue before and after the impact of the rate change, 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, and Table 7 shows the total number of customers affected by this filing.

In this filing, the Company is requesting an increase in the Company’s annual operating revenues of \$22,596,549 or 29.13%. 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	\$43,071,488	55,362,211	12,290,723	28.54%
104	Commercial	\$24,067,962	32,098,270	8,030,308	33.37%
105	Industrial Firm	\$2,300,012	3,094,759	794,747	34.55%
111	Com-Ind Dual	\$1,997,720	2,776,831	779,111	39.00%
170	Industrial Interr	\$1,692,502	2,394,162	701,660	41.46%

Table 6

Rate Schedule	Avg Therms per Month	Current Avg Bill	Proposed Avg Bill	Monthly Change	Proposed Rates % Change
101	62	\$59.17	\$76.05	\$16.88	28.54%
104	272	\$212.02	\$282.76	\$70.74	33.37%
105	1,657	\$1,213.21	\$1,632.42	\$419.21	34.55%
111	11,942	\$7,676.42	\$10,670.22	\$2,993.80	39.00%
170	54,801	\$32,856.73	\$46,478.13	\$13,621.41	41.46%

Table 7

Rate Schedule	Number of Customers
101	70,250
104	10,378
105	159
111	21
170	4

In Advice Nos. O22-07-03 and O22-07-04, Cascade has also filed its Non-Gas Cost Tracking Filings. The net overall change in revenue is an increase. 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 29, 2022:

Table 8

<u>Rate Schedule</u>	<u>Proposed Rate Change</u>
Schedule 101	25.32%
Schedule 104	30.13%
Schedule 105	33.50%
Schedule 111	38.15%

Schedule 170	40.91%
Schedule 163	(0.63%)

After combining the impact of this filing along with the two other regulatory filings made today, the overall effect of the proposed rate adjustments on the monthly bill of a residential customer with consumption of 62 therms will be an increase of \$14.98 or 25.32%, for a revised monthly bill of \$74.15 effective November 1, 2022.

The Company will notify customers with a bill insert in August of a projected increase in rates due to the PGA. The Company will issue a more detailed bill insert to customers at the 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, 2022 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.

If there are any questions regarding this filing, please contact me at (208) 377-6015.

Sincerely,

/s/ Lori A. Blattner

Lori A. Blattner
Director, Regulatory Affairs
Cascade Natural Gas Corporation
8113 W. Grandridge Blvd.
Kennewick, WA 99336-7166
Lori.blattner@intgas.com

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	\$0.42680	3.02%	\$0.44009	(I)
Non-Commodity Cost	\$0.13235	3.02%	\$0.13647	(R)
TOTAL	\$0.55915	3.02%	\$0.57656	(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	\$0.13789
104	\$0.13789
105	\$0.13789
111	\$0.13789
170	\$0.13789

(I)
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(I)

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. 2726042680	3.0 62 %	\$0. 2812044009	(I)
Non-Commodity Cost	\$0. 1455013235	3.0 62 %	\$0. 1500913647	(H)
TOTAL	\$0.4181055915	3.062%	\$0.4312957656	(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. 03725 <u>13789</u>
104	\$0. 03725 <u>13789</u>
105	\$0. 03725 <u>13789</u>
111	\$0. 03725 <u>13789</u>
170	\$0. 03725 <u>13789</u>

(I)
|
(I)

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 last general rate case.

Oregon Citizens' Utility Board dockets@oregoncub.org	Michael Goetz Oregon Citizens' Utility Board mike@oregoncub.org
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Stephanie S Andrus PUC Staff- Department of Justice Stephanie.andrus@state.or.us	

Dated this 29th day of July 2022.

/s/ Maryalice Gresham
Maryalice Gresham
Regulatory Affairs
Cascade Natural Gas Corporation
8113 W Grandridge Blvd
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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.1910.01272 (Schedule 4 of 9)
Gas Cost Consolidated Accounts Amortization Supporting 47OR.1910.01287 (Schedule 5 of 9)
Core Market Demand Amortization Supporting 47OR.1910.01273 (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 29, 2022

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

Line No.		Jul. 2021 (a)	Aug. 2021 (b)	Sep. 2021 (c)	Oct. 2021 (d)	Nov. 2021 (e)	Dec. 2021 (f)	Jan. 2022 (g)	Feb. 2022 (h)	Mar. 2022 (i)	Apr. 2022 (j)	May. 2022 (k)	Jun. 2022 (l)	SUM (A-L) (m)
1	Current commodity (WACOG) without revenue sensitive, Order No.20-362/21-361	\$0.20559	\$0.20559	\$0.20559	\$0.20559	\$0.20559	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260	\$0.27260
2	Current demand billing rate without revenue sensitive, Order No.20-362/21-361	\$0.13923	\$0.13923	\$0.13923	\$0.13923	\$0.13923	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550	\$0.14550
5	Annual ROR (Interest rate), per Order No. 21-001			7.0710%					7.0710%					
6	Deferral percentage			90%										
11	Oregon Calendar Month Sales	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690
14	Sales volumes subject to WACOG	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690
15	Sales volumes subject to Winter/Seasonal WACOG													0
16	Sales volumes subject to Monthly Incremental Costs													0
17	Total Sales	2,952,880	2,219,221	3,247,678	6,174,934	9,916,211	14,765,196	14,336,629	11,875,531	9,932,604	8,407,088	5,702,878	3,430,840	92,961,690
19	Commodity collections at WACOG	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153
20	Commodity collections at Winter/Seasonal WACOG													0
21	Commodity collections at Monthly Incremental Costs													0
22	Total Commodity collections	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153
23	Demand collections	\$411,129	\$308,982	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	13,429,906
25	Demand collections at other rates (interruptible rates & MDDV based)													0
26	Total Demand collections	\$411,129	\$308,982	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	13,429,906
27														
28	COMMODITY DEFERRAL CALCULATIONS													
29	Actual Commodity Cost (w/true ups, net of storage injections, bookouts, etc.)	\$ 587,256	\$ 778,152	\$ 1,020,912	\$2,288,742.70	\$ 3,664,139	\$ 6,209,779	\$ 6,093,082	4,638,894	3,570,298	3,596,679	2,739,437	1,882,318	37,069,689
30	Total Commodity billed (line 22)	\$607,083	\$456,250	\$667,690	\$1,269,505	\$2,654,947	\$4,024,992	\$3,908,165	\$3,237,270	\$2,707,628	\$2,291,772	\$1,554,605	\$935,247	24,315,153
31	Cost versus collection	(\$19,826.54)	\$321,902	\$353,222	\$1,019,238	\$1,009,192.57	\$2,184,787	\$2,184,917	\$1,401,624	\$862,670	\$1,304,907	\$1,184,832	\$947,071	\$12,754,537
32	Customer share (line 31 * applicable deferral percentage)	(\$17,844)	\$289,712	\$317,900	\$917,314	\$908,273	\$1,966,308	\$1,966,425	\$1,261,462	\$776,403	\$1,174,416	\$1,066,349	\$852,364	\$11,479,083
33	Storage Adjustment													\$0
34	Other Adjustment													\$0
35	Total Commodity deferral	(\$17,844)	\$289,712	\$317,900	\$917,314	\$908,273	\$1,966,308	\$1,966,425	\$1,261,460.37	\$776,405	\$1,174,416	\$1,066,349	\$852,364	\$11,479,083
36														
37	Commodity deferral Beginning Balance	\$2,843,931	\$2,841,552	\$3,146,803	\$3,482,423	\$1,507,173	\$2,423,865	\$4,405,817	\$6,395,522	\$7,691,435	\$8,513,760	\$9,736,359	\$10,850,320	\$11,764,815
38	Interest	\$17,079	\$17,065	\$18,289	\$20,914	\$8,759	\$14,557	\$26,459	\$34,691	\$46,191	\$49,480	\$58,472	\$63,060	\$375,015
39	Account adjustment (balance transfers and other)	(\$1,614.81)	(\$1,525.59)	(\$568.97)	(\$2,913,477.50)	(\$340.76)	(\$1,087.51)	(\$3,179.73)	(\$238.12)	(\$271)	(\$1,297.27)	(\$10,859.76)	(\$928.22)	(\$2,933,215)
40	Commodity deferral Ending Balance	2,843,931	\$2,841,552	\$3,146,803	\$3,482,423	\$2,423,865	\$4,405,817	\$6,395,522	\$7,691,435	\$8,513,760	\$9,736,359	\$10,850,320	\$11,764,815	\$11,764,815
41														
42	DEMAND DEFERRAL CALCULATIONS													
43														
44	Actual Demand Cost (w/true-ups) minus Storage Mitigation	\$ 870,752	\$ 866,233	\$ 846,338.66	\$ 869,750.20	\$ 1,312,144.26	1,416,646.47	1,379,773.07	1,349,066.60	1,410,131.91	1,324,269.49	822,095.17	880,335.64	\$13,347,537
45	Total Demand billed (line 26)	\$411,129	\$308,982.14	\$452,174	\$859,736	\$1,438,298	\$2,148,336	\$2,085,980	\$1,727,890	\$1,445,194	\$1,223,231	\$829,769	\$499,187	\$13,429,906
46	Cost versus collection	\$459,622	\$557,251	\$394,164.45	\$10,014	(\$126,153.29)	(\$731,690)	(\$706,206)	(\$378,823)	(\$35,061.98)	\$101,038.19	(\$7,674)	\$381,148	(\$82,369)
47	Other Adjustment													\$0
48	Total Demand deferral	\$459,622	\$557,251	\$394,164	\$10,014	(\$126,153)	(\$731,690)	(\$706,206)	(\$378,823)	(\$35,061.98)	\$101,038	(\$7,674)	\$381,148	(\$82,369)
49														
50	Demand deferral Beginning Balance	\$731,176	\$1,195,189	\$1,759,618	\$2,164,009	\$1,608,503	\$1,491,698	\$768,967	\$67,378	(\$311,079)	(\$348,009)	(\$248,994)	(\$258,163)	\$121,485
51	Interest	\$4,391	\$7,178	\$10,227	\$12,996	\$9,348	\$8,958	\$4,618	\$365	(\$1,868)	(\$2,023)	(\$1,495)	(\$1,500)	\$51,195
52	Account adjustment (balance transfers and other)	\$0.01		\$0.01	(\$578,516)		\$0.01	\$0.01	(\$0.01)	\$0.02	\$0.02		(\$0.01)	(\$578,516)
53	Demand deferral Ending Balance	\$731,175.77	\$1,195,189	\$1,759,618	\$2,164,009	\$1,608,503	\$1,491,698	\$768,967	\$67,378	(\$311,079)	(\$348,009)	(\$248,994)	(\$258,163)	\$121,485

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

Line No.		Jul-21 (a)	Aug-21 (b)	Sep-21 (c)	Oct-21 (d)	Nov-21 (e)	Dec-21 (f)	Jan-22 (g)	Feb-22 (h)	Mar-22 (i)	Apr-22 (j)	May-22 (k)	Jun-22 (l)	SUM (A:L) (m)
1	Current prior amortization rate, \$/therm (source: deferral sheets)													
2														
3	Interest Rate, %, Re: authorizing order 12-437, UG 221	2.630%	2.630%	2.630%	2.630%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%	1.240%
4														
5														
6														
7														
8														
9	Commodity therms	2,377,245	2,149,915	2,552,826	3,985,417	6,845,996	10,699,667	16,047,471	12,735,651	12,890,793	8,594,412	7,579,423	5,059,028	91,517,844
10														
11	Amortization amount, (ln. 9 * ln. 1), \$	\$ (73,671)	\$ (66,626)	\$ (79,112)	\$ (123,508)	\$ (224,261)	\$ (386,365)	\$ (579,474)	\$ (459,884)	\$ (465,487)	\$ (310,344)	\$ (273,693)	\$ (182,682)	\$ (3,225,106)
12														
13	Interest amount, \$, (ln.11 * ln.3)	\$ 563.01	\$ 399.71	\$ 243.66	\$ 75.61	\$ 3,466.47	\$ 3,349.49	\$ 2,946.12	\$ 2,112.60	\$ 1,856.84	\$ 1,324.42	\$ 1,043.13	\$ 731.60	\$ 18,113
14														
15	Other adjustments (switchers' amortization, balance transfers, etc.)	\$ -	\$ -	\$ -	\$ 3,490,821.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16														
17	Commodity amortization balance, \$	\$ 252,054	\$ 178,946	\$ 112,720	\$ 33,851	\$ 3,401,240	\$ 3,180,446	\$ 2,797,431	\$ 2,220,903	\$ 1,763,131	\$ 1,299,501	\$ 990,481	\$ 717,832	\$ 535,882
18														
19	Demand therms (for nwn, Firm)	-	-	-	-	-	-	-	-	-	-	-	-	\$ -
20														
21	Demand therms - Interruptible (for nwn)													
22														
23	Amortization amount, (ln. 19 * ln. 1, col. D)+(line 21 * line 1, col E), \$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
24														
25	Interest amount, \$, (ln. 21 * ln. 3)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
26														
27	Other adjustments (switchers' amortization, balance transfers, etc.)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28														
29	Demand amortization balance, \$	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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 6/30/2022 (e)	Estimated Thru 10/31/22		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.1910.01272) (See Commodity Cost Deferral)	21-387	Core	New	\$11,764,815	\$285,171		\$86,989	\$ 12,136,975				
2	Prior gas cost amortization to be included in increment (47OR.1910.01287) (See GC Consolidated Deferral)	21-387	Core	Residual	\$535,882	\$1,710	(\$511,672)	\$187	\$ 26,107				
3	Subtotal				\$12,300,697	\$286,881	(\$511,672)	\$87,176	\$12,163,082	91,887,864	0.13237	0.13237	0.13237
4	Demand Cost Deferrals (47OR.1910.01273) (See Demand Cost Deferral)	21-387	Core	New	\$121,485	\$2,921		\$898	\$ 125,304	91,887,864	0.00136	0.00136	0.00136
5	SUBTOTAL AMORTIZATION RATES BEFORE REVENUE SENSITIVE COSTS											0.13373	0.13373
6	REVENUE REQUIREMENT BEFORE REVENUE SENSITIVE COSTS				\$ 12,422,182	\$ 289,802	\$ (511,672)	\$ 88,074	\$ 12,288,386				
7	REVENUE SENSITIVE COST PERCENTAGES:								3.02%			0.03020	0.03020
8	REVENUE REQUIREMENT AFTER REVENUE SENSITIVE COSTS								\$ 12,671,052				
9	PROPOSED AMORTIZATION RATE INCLUDING REVENUE SENSITIVE COSTS											\$ 0.13789	\$ 0.13789
10	NEW WACOG - Commodity (from sch. 4) including revenue sensitive costs											\$ 0.44009	\$ 0.44009
11	NEW Demand Rates (from sch. 5) including revenue sensitive costs											\$ 0.13647	\$ 0.13647
12	NEW Delivered WACOG (gas only) rate including revenue sensitive costs											\$ 0.57656	\$ 0.57656
13	Total Gas Cost Rate before revenue sensitive costs											\$ 0.69288	\$ 0.69288

State:	Oregon
Description:	Core Market Commodity Costs
Account number:	47OR.1910.01272
Class of Customers:	Core
Deferral Period:	7/1/2021 to 6/30/2022
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								2,843,931.28
Jul-21			(17,843.89)		0.07071	17,079.25	(1,614.82)	2,841,551.83
Aug-21			289,712.24		0.07071	17,064.96	(1,525.58)	3,146,803.44
Sep-21			317,900.00		0.07071	18,288.53	(568.96)	3,482,423.00
Oct-21			917,314.22		0.07071	20,913.72	\$ (1,172.27)	4,419,478.66
						TRANSFER BALANCE TO 01287	(2,912,305.23)	1,507,173.43
Nov-21			908,273.31		0.07071	8,759.36	(340.76)	2,423,865.35
Dec-21			1,966,307.95		0.07071	14,556.54	1,087.51	4,405,817.34
Jan-22			1,966,424.86		0.07071	26,459.17	(3,179.73)	6,395,521.64
Feb-22			1,261,460.37		0.07071	34,691.41	(238.12)	7,691,435.31
Mar-22			776,404.77		0.07071	46,190.97	(271.38)	8,513,759.65
Apr-22			1,174,416.04		0.07071	49,480.11	(1,297.27)	9,736,358.53
May-22			1,066,349.20		0.07071	58,471.77	(10,859.76)	10,850,319.74
Jun-22			852,363.97		0.07071	63,059.68	(928.22)	11,764,815.17
Jul-22 est.			0.00		0.07071	70,653.68		11,835,468.85
Aug-22 est.			0.00		0.07071	71,077.99		11,906,546.83
Sep-22 est.			0.00		0.07071	71,504.85		11,978,051.68
Oct-22 est.					0.07071	71,934.27		12,049,985.95
Nov-22 est.		11,135,831		(1,470,872)	0.01820	18,025.46		10,597,139.24
Dec-22 est.		15,586,398		(2,058,724)	0.01820	16,380.56		8,554,796.13
Jan-23 est.		14,433,846		(1,906,489)	0.01820	13,223.61		6,661,530.46
Feb-23 est.		11,985,458		(1,583,095)	0.01820	9,300.59		5,087,736.21
Mar-23 est.		10,114,492		(1,335,969)	0.01820	7,864.39		3,759,631.62
Apr-23 est.		7,044,126		(930,421)	0.01820	5,624.00		2,834,834.81
May-23 est.		4,331,634		(572,142)	0.01820	4,381.96		2,267,074.47
Jun-23 est.		2,723,708		(359,760)	0.01820	3,391.29		1,910,705.79
Jul-23 est.		2,323,398		(306,885)	0.01820	2,953.48		1,606,774.09
Aug-23 est.		2,304,784		(304,427)	0.01820	2,483.68		1,304,831.21
Sep-23 est.		2,996,932		(395,849)	0.01820	1,951.88		910,934.43
Oct-23 est.		6,907,257		(912,343)	0.01820	1,408.08		(0.00)
Therms Nov-Oct 2023		91,887,864						(0.00)
Development of Amortization Rate								(0.13208)
June 30, 2022 Balance							11,764,815.17	
Interest through Oct 31, 2022							285,170.79	
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)							86,988.97	
Balance to Amortize							<u>12,136,974.93</u>	
								(0.13208)

State:	Oregon
Description:	OR 11/01/16 Consolidated Accounts: Gas Cost Related PGA Temporary Rate Increments
Account number:	47OR.1910.01287
Class of Customers:	Core
Deferral Period:	
Deferral Account Order:	
Amortization Period:	11/1/2021 through 10/31/2022
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-21	Balance Forward							3,401,240.36	
Nov-21	Prorated	6,845,996		(224,260.58)	0.01240	3,466.47		3,180,446.25	
Dec-21	(0.036110)	10,699,667		(386,364.98)	0.01240	3,349.49	0.01	2,797,430.77	
Jan-22	(0.036110)	16,047,471		(579,474.18)	0.01240	2,946.12		2,220,902.71	
Feb-22	(0.036110)	12,735,651		(459,884.35)	0.01240	2,112.60		1,763,130.96	
Mar-22	(0.036110)	12,890,793		(465,486.54)	0.01240	1,856.84	(0.01)	1,299,501.26	
Apr-22	(0.036110)	8,594,412		(310,344.22)	0.01240	1,324.42		990,481.46	
May-22	(0.036110)	7,579,423		(273,692.96)	0.01240	1,043.13	0.01	717,831.63	
Jun-22	(0.036110)	5,059,028		(182,681.50)	0.01240	731.60		535,881.73	
Jul-22	est. (0.036110)	2,250,299		(81,258.30)	0.01240	564.36		455,187.80	
Aug-22	est. (0.036110)	2,231,746		(80,588.35)	0.01240	479.38		375,078.83	
Sep-22	est. (0.036110)	2,931,096		(105,841.88)	0.01240	382.27		269,619.23	
Oct-22	est. (0.036110)	6,756,673		(243,983.46)	0.01240	283.95		25,919.72	
Nov-22	est. (0.00028)	11,135,831		(3,163.87)	0.01820	38.77		22,794.62	
Dec-22	est. (0.00028)	15,586,398		(4,428.35)	0.01820	35.23		18,401.51	
Jan-23	est. (0.00028)	14,433,846		(4,100.89)	0.01820	28.44		14,329.06	
Feb-23	est. (0.00028)	11,985,458		(3,405.26)	0.01820	20.01		10,943.81	
Mar-23	est. (0.00028)	10,114,492		(2,873.69)	0.01820	16.92		8,087.03	
Apr-23	est. (0.00028)	7,044,126		(2,001.35)	0.01820	12.10		6,097.78	
May-23	est. (0.00028)	4,331,634		(1,230.69)	0.01820	9.43		4,876.52	
Jun-23	est. (0.00028)	2,723,708		(773.85)	0.01820	7.29		4,109.96	
Jul-23	est. (0.00028)	2,323,398		(660.11)	0.01820	6.35		3,456.20	
Aug-23	est. (0.00028)	2,304,784		(654.83)	0.01820	5.34		2,806.72	
Sep-23	est. (0.00028)	2,996,932		(851.48)	0.01820	4.20		1,959.44	
Oct-23	est. (0.00028)	6,907,257		(1,962.46)	0.01820	3.03		0.00	
2022/23 PGA Year Therms		91,887,864							
								Balance at end of Amort Period:	0.00
								Amort Rate to Achieve This:	(0.00028)

Development of Amortization Rate

June 30, 2022 Balance	535,881.73
Interest through Oct 31, 2022	1,709.97
Amortizations through Oct 31, 2022	(511,671.98)
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)	187.11
Balance to Amortize	<u>26,106.83</u>
	(0.00028)

State:	Oregon
Description:	Core Market Demand & Gas Storage Mitigation Costs
Account number:	47OR.1910.01273
Class of Customers:	Core
Deferral Period:	7/1/2021 to 6/30/2022
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								731,175.77
Jul-21			459,622.50		0.07071	4,391.08		1,195,189.35
Aug-21			557,250.94		0.07071	7,177.72		1,759,618.01
Sep-21			394,164.46		0.07071	10,226.51		2,164,008.98
Oct-21			10,014.13		0.07071	12,995.97		2,187,019.08
						TRANSFER BALANCE TO 01287	(578,516.17)	1,608,502.91
Nov-21			(126,153.29)		0.07071	9,348.27		1,491,697.89
Dec-21			(731,689.54)		0.07071	8,958.40		768,966.75
Jan-22			(706,206.44)		0.07071	4,618.04		67,378.35
Feb-22			(378,823.18)		0.07071	365.48	0.01	(311,079.34)
Mar-22			(35,061.96)		0.07071	(1,868.19)		(348,009.49)
Apr-22			101,038.20		0.07071	(2,022.55)	0.01	(248,993.84)
May-22			(7,673.58)		0.07071	(1,495.33)		(258,162.75)
Jun-22			381,148.42		0.07071	(1,500.39)	(0.01)	121,485.27
Jul-22 est.					0.07071	729.58		122,214.85
Aug-22 est.					0.07071	733.96		122,948.81
Sep-22 est.					0.07071	714.55		123,663.37
Oct-22 est.					0.07071	742.66		124,406.03
Nov-22 est.		11,135,831		(15,185.53)	0.01820	186.10		109,406.60
Dec-22 est.		15,586,398		(21,254.60)	0.01820	169.12		88,321.11
Jan-23 est.		14,433,846		(19,682.91)	0.01820	136.52		68,774.72
Feb-23 est.		11,985,458		(16,344.13)	0.01820	96.02		52,526.61
Mar-23 est.		10,114,492		(13,792.76)	0.01820	81.19		38,815.05
Apr-23 est.		7,044,126		(9,605.82)	0.01820	58.06		29,267.29
May-23 est.		4,331,634		(5,906.89)	0.01820	45.24		23,405.64
Jun-23 est.		2,723,708		(3,714.22)	0.01820	35.01		19,726.43
Jul-23 est.		2,323,398		(3,168.33)	0.01820	30.49		16,588.60
Aug-23 est.		2,304,784		(3,142.95)	0.01820	25.64		13,471.29
Sep-23 est.		2,996,932		(4,086.81)	0.01820	20.15		9,404.63
Oct-23 est.		6,907,257		(9,419.17)	0.01820	14.54		(0.00)
2022/23 PGA Year Therms		91,887,864						(0.00)
								Balance at end of Amort Period:
								Amort Rate to Achieve This:
								(0.001364)
Development of Amortization Rate								
June 30, 2022 Balance							121,485.27	
Interest through Oct 31, 2022							2,920.76	
Interest During Amortization Period (Nov 1, 2022 through Oct 31, 2023)							898.09	
							<u>125,304.12</u>	
								(0.001364)

Cascade Natural Gas Corporation
2022-2023 PGA
New WACOG Commodity

SYSTEM COSTS

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
			November	December	January	February	March	April	May	June	July	August	September	October	TOTAL
1															
2															
3															
4															
5	COSTS														
6	Supply Commodity Cost		\$4,773,061	\$6,389,549	\$5,839,460	\$5,082,101	\$4,391,464	\$2,939,706	\$1,798,344	\$981,269	\$590,268	\$648,336	\$1,092,988	\$2,825,080	\$37,351,626
7	tab IV-4 Phys resources, row 935, columns G to S														
8	Volumetric Pipeline Chgs	\$	\$ 31,074.74	\$ 36,640.35	\$ 34,753.45	\$ 32,093.33	\$ 30,255.30	\$ 27,554.42	\$ 3,748.25	\$ 2,268.67	\$ 1,848.71	\$ 1,859.58	\$ 2,469.98	\$ 5,609.40	\$ 210,176
9	tab OR Pipeline Comm Costs by Month, row 30 & 58 D to O														
10	Commodity Cost from Storage		\$95,878	\$509,833	\$636,121	\$339,253	\$75,229	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 1,656,314
11	tab V4-7-g Stor Flow & Avg Cost, row 63, column e through p														
12	Other Costs & Miscellaneous Changes		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
13	Total Commodity Cost		\$4,900,014	\$6,936,023	\$6,510,335	\$5,453,447	\$4,496,949	\$2,967,261	\$1,802,092	\$983,537	\$592,117	\$650,196	\$1,095,458	\$2,830,689	\$39,218,116
14															
15	VOLUMES														
16	Pipeline Commodity at Receipt Points		10,729,311	14,055,963	12,674,267	11,147,758	10,128,793	7,211,860	4,509,892	2,863,215	2,444,260	2,446,800	3,139,066	6,976,562	88,327,747
17	Pipeline Fuel Use/Unaccounted for Gas		217,927	334,926	231,782	39,631	(148,563)	(167,734)	(178,258)	(139,507)	(120,862)	(142,016)	(142,134)	(69,305)	(284,113)
18	Total Pipeline Gas Arriving at City Gate		10,947,238	14,390,889	12,906,049	11,187,389	9,980,230	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	88,043,634
19	Storage Gas Deliveries		188,593	1,195,509	1,527,797	798,069	134,262	0	0	0	0	0	0	0	3,844,230
20	Total Gas At Citygate (Storage and Pipeline)		11,135,831	15,586,398	14,433,846	11,985,458	10,114,492	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	91,887,864
21															
22															
23															
24	Load Served		11,135,831	15,586,398	14,433,846	11,985,458	10,114,492	7,044,126	4,331,634	2,723,708	2,323,398	2,304,784	2,996,932	6,907,257	91,887,864
25															
26	Annual Sales WACOG														\$0.42680
27															
28	OREGON Sales WACOG with Revenue Sensitive														\$0.44009

Cascade Natural Gas Corporation
 2022-2023 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	\$ 56,003,186	
5	Oregon Allocation Factor (Based on Peak Day)	18.09%	
6	Oregon Allocated Demand Costs	\$10,130,022	
7	Ruby Demand for Allocation	\$2,025,000	
8	Oregon Allocation Factor (Based Non-NWP Allocation)	89.13%	
9	Oregon Ruby Allocated System Demand	\$1,804,960	
10	Hedging Admin Costs	\$4,639	
11	Plus Demand Costs -Central Oregon	\$1,276,433	
12	Less Oregon Capacity Release Credits	(\$1,054,905)	
13	OREGON DEMAND COSTS	\$12,161,149	\$ 12,539,852
14			
15	Oregon Sales Forecasted Normal Volumes	91,887,864	91,887,864
16			
17	Proposed Demand Increment Per Therm (line 12/line 14)	\$0.13235	\$0.13647
18			
19	Current Firm Demand Per Therm	\$0.14550	\$0.15009
20			
21	Percent Change in Firm Demand	-9.04%	-9.07%
22			
23			
24	1/Allocation Factor: Forecasted Peak Volumes (excl. Central Oregon):		
25		<u>Washington</u>	<u>Oregon</u>
26			<u>System</u>
27	Total Peak	1,865,726	804,853
28	Less Central Oregon		577,405
29	Peak Day Capacity	1,865,726	227,448.04
30	Allocation Factor	89.13%	10.87%
			100.00%

Cascade Natural Gas Corporation
2022-2023 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		0.42680	0.44009
2 Current Commodity WACOG		0.27260	0.28120
3 Proposed Rate Change-Commodity WACOG		0.15420	0.15889
4			
5 Proposed Firm Demand Per Therm		0.13235	0.13647
6 Current Firm Demand Per Therm		0.14550	0.15009
7 Proposed Rate Change-Firm Demand WACOG		(0.01315)	(0.01362)
8			
9 Proposed Temporary Rate Increment		0.13373	0.13789
10 Current Temporary Rate Increment		0.03611	0.03725
11 Proposed Rate Change-Temporary Rate Increment		0.09762	0.10064
12			
13 TOTAL PROPOSED PGA RATE CHANGE			0.24591
14			
15 Oregon Forecasted Therm Sales		91,887,864	
16			
17 <u>REVENUE IMPACT</u>			
18			
19 Commodity Cost Change			14,600,063
20 Demand Cost Change			(1,251,513)
21 Amortization of Commodity and Demand Cost Differences			9,248,000
22			
23 Total Revenue Impact Due to PGA Filing			22,596,550
24			
25 Operating Revenues for 12 Month Period Ending 12/31/21			77,563,145
26			
27 PERCENTAGE CHANGE IN REVENUES DUE TO PGA FILING			29.13%

**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 29, 2022

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

Ln No.	Customer Class	Schedule	Block	Current 11/1/2021 Rate	Total Proposed Changes				Total Change (i) = e thru h	Proposed 11/1/2022 Rate (j) = d + i	
					PGA Base Gas Cost	CAP Baseline Adj	Non Gas Cost Temporary Rate Adj				
							Remove 21	Add New			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)		
CORE MARKET SERVICE											
1	Residential	101		\$0.85753	\$0.24591		\$0.00143	(\$0.00576)	\$0.24158	\$1.09911	
2	Commercial	104		\$0.73537	\$0.24591		\$0.00432	(\$0.01539)	\$0.23484	\$0.97021	
3	Com-Ind Dual	111		\$0.63075	\$0.24591			(\$0.00088)	\$0.24525	\$0.87600	
4	Industrial Firm	105		\$0.71105	\$0.24591			(\$0.00088)	\$0.24525	\$0.95630	
5	Industrial Interruptible	170		\$0.59409	\$0.24591			(\$0.00088)	\$0.24525	\$0.83934	
NONCORE MARKET SERVICE											
6	Distribution Transportation	163	First 10,000	\$0.13102	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.13036
7	Distribution Transportation	163	Next 10,000	\$0.11846	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.11780
8	Distribution Transportation	163	Next 30,000	\$0.11146	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.11080
9	Distribution Transportation	163	Next 50,000	\$0.06949	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.06883
10	Distribution Transportation	163	Next 400,000	\$0.03658	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.03592
11	Distribution Transportation	163	Next 500,000	\$0.02085	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.02019
			Over 1,000,000	\$0.00458	\$0.00000	\$0.00000		(\$0.00088)	\$0.00022	(\$0.00066)	\$0.00392

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 11/1/2021 Rate	Current Avg Bill	Total Proposed 11/1/2022 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 /12			= g + (f * h)		= g + (f * j)		= l / i	
CORE MARKET SERVICE													
1	Residential	101		52,212,677	70,250	62	\$6.00	\$0.85753	\$59.17	\$1.09911	\$74.15	\$14.98	25.32%
2	Commercial	104		33,888,652	10,378	272	\$12.00	\$0.73537	\$212.02	\$0.97021	\$275.90	\$63.88	30.13%
3	Com-Ind Dual	111		2,973,438	21	11,942	\$144.00	\$0.63075	\$7,676.42	\$0.87600	\$10,605.24	\$2,928.83	38.15%
4	Industrial Firm	105		3,167,300	159	1,657	\$35.00	\$0.71105	\$1,213.21	\$0.95630	\$1,619.60	\$406.39	33.50%
5	Industrial Interruptible	170		2,630,444	4	54,801	\$300.00	\$0.59409	\$32,856.73	\$0.83934	\$46,296.91	\$13,440.19	40.91%
NONCORE MARKET SERVICE													
6	Distribution Transportation	163	10,000	3,463,512	33		\$625.00	\$0.13102	\$1,935.20	\$0.13036	\$1,928.60		
7	Distribution Transportation	163	10,000	2,853,254				\$0.11846	\$1,184.60	\$0.11780	\$1,178.00		
8	Distribution Transportation	163	30,000	4,758,368				\$0.11146	\$3,343.80	\$0.11080	\$3,324.00		
9	Distribution Transportation	163	50,000	4,551,732				\$0.06949	\$2,531.97	\$0.06883	\$2,507.92		
10	Distribution Transportation	163	400,000	16,746,519				\$0.03658		\$0.03592			
11	Distribution Transportation	163	500,000	1,509,695				\$0.02085		\$0.02019			
12	Total		Over 1,000,000	0				\$0.00458		\$0.00392			
13				33,883,080		86,436			\$8,995.57		\$8,938.52	(\$57.05)	-0.63%
14								Overall	\$51,013.11		\$67,810.32	\$16,797.21	32.93%

DRAFT

Advice No. CNG\O22-07-02

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, 2022.

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 62 therms will be a net increase of \$14.98 or 25.32%. For small commercial customers, the increase in the monthly bill for consumption of 272 therms will be \$63.88 or 30.13%. Large volume core customers will experience an average increase of 33.5% depending on monthly volumes consumed. Large volume interruptible customers will experience an average increase of 40.91%. Large volume non-core customers will experience an average decrease of 0.63% for distribution service from Cascade depending on the monthly volumes consumed.

By: Lori Blattner
Director, Regulatory Affairs

Date: October 1, 2022

WHAT IS A PGA?



In the natural gas industry, a **Purchased Gas Adjustment (PGA)** is designed to reflect the actual costs of gas supplies in customers' bills. A PGA filing does not affect a 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 and Oregon customers in its PGA filings. Customers are encouraged to use energy wisely and continue conservation efforts.

To learn how to be more energy efficient, visit www.cngc.com/energy-efficiency.



In the Community to Serve®
Schedule 4 of 4

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**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

Attachment E – PGA Summary

Cascade Natural Gas Corporation

July 29, 2022

**Cascade Natural Gas
2022 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	43,071,488	55,145,799	12,074,311	28.03%	54.91%
104	Commercial	24,067,962	31,736,781	7,668,819	31.86%	34.87%
105	Industrial	2,300,012	3,092,626	792,615	34.46%	3.60%
111	Large Volume	1,997,720	2,774,739	777,019	38.90%	3.53%
170	Interruptible	1,692,502	2,392,278	699,777	41.35%	3.18%
163	Transportation	2,221,190	2,198,827	(22,363)	-1.01%	-0.10%
		75,350,873	97,341,051	21,990,178	29.18%	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) 101/104/105/111/170/163		Adjustment Tariff No. 191 Temporary Gas		Adjustment Tariff No. 192 Intervenor		Adjustment Tariff No. 193 Conservation		2022-2023		Revenue at Current	Revenue at Proposed	Change in Revenue	% Change
			Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Current Rate	Proposed Rate	Forecast Therms					
101	Residential		\$ 0.43129	\$ 0.57656	\$ 0.39467	\$ 0.39467	\$ 0.03725	\$ 0.13789	\$ 0.00107	\$ 0.00088	\$ (0.00250)	(0.00664)	49,979,679	\$43,071,488	\$55,145,799	\$12,074,311	28.03%	
104	Commercial		\$ 0.43129	\$ 0.57656	\$ 0.27282	\$ 0.27282	\$ 0.03725	\$ 0.13789	\$ -	\$ -	\$ (0.00432)	(0.01539)	32,654,893	\$24,067,962	\$31,736,781	\$7,668,819	31.86%	
105	Industrial		\$ 0.43129	\$ 0.57656	\$ 0.24226	\$ 0.24226	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,231,806	\$2,300,012	\$3,092,626	\$792,615	34.46%	
111	Large Volume		\$ 0.43129	\$ 0.57656	\$ 0.16113	\$ 0.16113	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,168,218	\$1,997,720	\$2,774,739	\$777,019	38.90%	
170	Interruptible		\$ 0.43129	\$ 0.57656	\$ 0.12376	\$ 0.12376	\$ 0.03725	\$ 0.13789	\$ 0.00088	\$ 0.00022	\$ -	\$ -	2,853,268	\$1,692,502	\$2,392,278	\$699,777	41.35%	
163	Transportation	Block 1	\$ -	\$ -	\$ 0.12833	\$ 0.12833	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	3,463,512	\$447,520	\$445,234	(\$2,286)	-0.51%	
		Block 2	\$ -	\$ -	\$ 0.11577	\$ 0.11577	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	2,853,254	\$332,832	\$330,949	(\$1,883)	-0.57%	
		Block 3	\$ -	\$ -	\$ 0.10877	\$ 0.10877	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	4,758,368	\$521,755	\$518,615	(\$3,141)	-0.60%	
		Block 4	\$ -	\$ -	\$ 0.06680	\$ 0.06680	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	4,551,732	\$308,061	\$305,057	(\$3,004)	-0.98%	
		Block 5	\$ -	\$ -	\$ 0.03389	\$ 0.03389	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	16,746,519	\$582,276	\$571,224	(\$11,053)	-1.90%	
		Block 6	\$ -	\$ -	\$ 0.01816	\$ 0.01816	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	1,509,695	\$28,745	\$27,748	(\$996)	-3.47%	
		Block 7	\$ -	\$ -	\$ 0.00189	\$ 0.00189	\$ -	\$ -	\$ 0.00088	\$ 0.00022	\$ -	\$ -	-	\$0	\$0	\$0	0.00%	
163	Transportation Total												\$2,221,190	\$2,198,827	(\$22,363)	-1.01%		

**Cascade Natural Gas
2022 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	\$39,630,318	\$52,978,867	\$13,348,549	60.70%
191 Temporary Gas Cost Adj	\$3,422,823	\$12,670,823	\$9,248,000	42.06%
192 Intervenor Funding	\$91,439	\$53,472	(\$37,967)	-0.17%
193 CAP	(\$266,018)	(\$834,424)	(\$568,406)	-2.58%
Margin	\$32,444,897	\$32,444,897	\$0	0.00%
Total	\$75,323,459	\$97,313,635	\$21,990,176	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.

2022-2023

Advice No.	Description	Schedule No.	Rate Class	Type	Block	Current Rate	Proposed Rate	Proposed Therms	Revenue at Current	Revenue at Proposed	Change in Revenue	Percent Change in Annual Revenues
		101	Residential			\$ 0.43129	0.57656	49,979,679	\$21,555,736	\$28,816,284	\$7,260,548	
		104	Commercial			\$ 0.43129	0.57656	32,654,893	\$14,083,729	\$18,827,505	\$4,743,776	
		105	Industrial			\$ 0.43129	0.57656	3,231,806	\$1,393,846	\$1,863,330	\$469,484	
		111	Large Volume			\$ 0.43129	0.57656	3,168,218	\$1,366,421	\$1,826,668	\$460,247	
		170	Interruptible			\$ 0.43129	0.57656	2,853,268	\$1,230,586	\$1,645,080	\$414,494	
Advice No. O22-07-02	177-A - PGA							Total	\$39,630,318	\$52,978,867	\$13,348,549	17.2%
		101	Residential			\$ 0.03725	0.13789	49,979,679	\$1,861,743	\$6,891,918	\$5,030,175	
		104	Commercial			\$ 0.03725	0.13789	32,654,893	\$1,216,395	\$4,502,927	\$3,286,532	
		105	Industrial			\$ 0.03725	0.13789	3,231,806	\$120,385	\$445,648	\$325,263	
		111	Large Volume			\$ 0.03725	0.13789	3,168,218	\$118,016	\$436,880	\$318,864	
		170	Interruptible			\$ 0.03725	0.13789	2,853,268	\$106,284	\$393,450	\$287,166	
Advice No. O22-07-02	191-Temp Gas Cost							Total	\$3,422,823	\$12,670,823	\$9,248,000	11.9%
		101	Residential			\$ 0.00107	0.00088	49,979,679	\$53,478	\$43,982	(\$9,496)	
		104	Commercial			\$ -	0.00000	32,654,893	\$0	\$0	\$0	
		105	Industrial			\$ 0.00088	0.00022	3,231,806	\$2,844	\$711	(\$2,133)	
		111	Large Volume			\$ 0.00088	0.00022	3,168,218	\$2,788	\$697	(\$2,091)	
		170	Interruptible			\$ 0.00088	0.00022	2,853,268	\$2,511	\$628	(\$1,883)	
		163	Distribution		Block 1	\$ 0.00088	0.00022	3,463,512	\$3,048	\$762	(\$2,286)	
					Block 2	\$ 0.00088	0.00022	2,853,254	\$2,511	\$628	(\$1,883)	
					Block 3	\$ 0.00088	0.00022	4,758,368	\$4,187	\$1,047	(\$3,140)	
					Block 4	\$ 0.00088	0.00022	4,551,732	\$4,006	\$1,001	(\$3,005)	
					Block 5	\$ 0.00088	0.00022	16,746,519	\$14,737	\$3,684	(\$11,053)	
					Block 6	\$ 0.00088	0.00022	1,509,695	\$1,329	\$332	(\$997)	
					Block 7	\$ 0.00088	0.00022	0	\$0	\$0	\$0	
Advice No. O22-07-03	192 - Intervenor							Total	\$91,439	\$53,472	(\$37,967)	-0.05%
		101	Residential			\$ (0.00250)	(0.00664)	49,979,679	(\$124,949)	(\$331,865)	(\$206,916)	
		104	Commercial			\$ (0.00432)	(0.01539)	32,654,893	(\$141,069)	(\$502,559)	(\$361,490)	
Advice No. O22-07-04	193 - CAP							Total	(\$266,018)	(\$834,424)	(\$568,406)	-0.73%
		101	Residential			\$ 0.39467	0.39467	49,979,679	\$19,725,480	\$19,725,480	\$0	
		104	Commercial			\$ 0.27282	0.27282	32,654,893	\$8,908,908	\$8,908,908	\$0	
		105	Industrial			\$ 0.24226	0.24226	3,231,806	\$782,937	\$782,937	\$0	
		111	Large Volume			\$ 0.16113	0.16113	3,168,218	\$510,495	\$510,495	\$0	
		170	Interruptible			\$ 0.12376	0.12376	2,853,268	\$353,120	\$353,120	\$0	
		163	Distribution		Block 1	\$ 0.12833	0.12833	3,463,512	\$444,472	\$444,472	\$0	
					Block 2	\$ 0.11577	0.11577	2,853,254	\$330,321	\$330,321	\$0	
					Block 3	\$ 0.10877	0.10877	4,758,368	\$517,568	\$517,568	\$0	
					Block 4	\$ 0.06680	0.06680	4,551,732	\$304,056	\$304,056	\$0	
					Block 5	\$ 0.03389	0.03389	16,746,519	\$567,540	\$567,540	\$0	
					Block 6	\$ 0.00189	0.00189	0	\$0	\$0	\$0	
Advice No.	Margin							Total	\$32,444,897	\$32,444,897	\$0	

**Cascade Natural Gas
2022-2023 PGA
Three Percent Test
Attachment C**

	Surcharge	Credit	
Prior Period Gas Cost Deferral True-Up	12,671,052		
 <u>Non-Gas Cost Amortizations</u>			
Intervenor Funding	\$53,158		
Other Residuals			
Decoupling		(834,229)	
Subtotal	53,158	(834,229)	
Total	12,724,210	(834,229)	
Total Proposed Amortization			\$11,889,981
Less: Intervenor Funding ¹			\$53,158
Net Proposed Amortizations (subject to the 3% test)			\$11,836,823
Utility Gross Revenues (2021)			\$77,563,145
3% of Utility Gross Revenues²			\$2,326,894
Allowed Amortization			\$11,836,823
Allowed Amortization as % of Gross Revenues			15.26%

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
2022-2023 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	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	101	\$0.85753	\$1.09911	\$0.24158	28.17%
NW Natural	2	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Commercial					
Avista	420	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	104	\$0.73537	\$0.97021	\$0.23484	31.94%
NW Natural	3	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Industrial					
Avista	424	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	105	\$0.71105	\$0.95630	\$0.24525	34.5%
NW Natural	31ISF	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Interruptible					
Avista	440	\$0.00000	\$0.00000	\$0.00000	#DIV/0!
Cascade	170	\$0.59409	\$0.83934	\$0.24525	41.3%
NW Natural	32ISI	\$0.00000	\$0.00000	\$0.00000	#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	121	\$6.00	\$109.76	\$138.99	\$29.23	26.63%	62	\$6.00	\$59.17	\$74.15	\$14.98	25.32%
NW Natural	2	0	\$0.00	\$0.00	\$0.00	\$0.00	#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
2022 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)	\$21,990,176	B-2 Detail by Adjustment Schd
B) Percent (To .1 percent)	28.35%	1 A) /Utility Gross Revenues (2021)
2) Annual Revenues Calculation (Whole Dollars)		
A) PGA Cost Change (Commodity & Transportation)	\$13,348,549	B-2 Detail by Adjustment Schd
B) Remove Last Year's Temporary Increment Total	(\$3,422,823)	Summary Rate-Rev Impact
C) Add New Temporary Increment	\$12,670,823	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	\$22,596,549	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	\$0.85753	D - Proposed Rate & Bill
2) Proposed Billing Rate per Therm	\$1.09911	D - Proposed Rate & Bill
3) Rate Change Per Therm	\$0.24158	D - Proposed Rate & Bill
4) Percent Change per Therm (to .1%)	28.2%	Item 3 divided by Item 1
B) Average Residential Bill Impact (forecasted weather-normalized annual)		
1) Average Residential Monthly Therm Use	62	Total Proposed Avg Bill , Line 1, Col. (f)
2) Customer Charge	\$6.00	Total Proposed Avg Bill , Line 1, Col. (g)
3) Current Average Monthly Bill	\$59.17	Total Proposed Avg Bill , Line 1, Col. (j)
4) Proposed Average Monthly Bill	\$74.15	Total Proposed Avg Bill , Line 1, Col. (k)
5) Change in Average Monthly Bill	\$14.98	Total Proposed Avg Bill , Line 1, Col. (l)
6) Percent change in Average Monthly Bill (to .1%)	25.32%	Total Proposed Avg Bill , Line 1, Col. (m)
C) Average January Residential Bill Impact		
1) Average January Residential Use (forecasted weather-normalized)	121	D - Proposed Rate & Bill
2) Customer Charge	\$6.00	D - Proposed Rate & Bill
3) Current Average January Bill	\$109.76	D - Proposed Rate & Bill
4) Proposed Average January Bill	\$138.99	D - Proposed Rate & Bill
5) Change in Average January Bill	\$29.23	Item 4 minus Item 3
6) Percent change in Average January Bill (to .1%)	26.63%	Item 5 divided by Item 3
4) Breakdown of Costs		
A) Embedded in Rates		
1) Total Commodity Cost	\$ 24,829,306	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)	\$ 87,774	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
d) Total Volumetric Cost (assoc. w/ supply)	\$ 23,752,598	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
e) Total Storage Cost (assoc. w/ supply)	\$ 988,934	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
f) Other (A&G Benchmark Savings)		
2) Total Transportation Cost (Pipeline related)	\$ 10,713,007	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,609,418	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,609,418	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 7,103,589	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 6,899,419	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
ii. Total Volumetric Cost	\$ 204,170	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
3) Total Storage Costs	\$ 1,421,652	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
4) Capacity Release Credits	\$ (1,155,553)	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
5) Total Gas Costs	\$ 35,808,412	UG 417 Confidential Supplemental CNGC Gas Cost WP 9.15.21
B) Projected For New Rates		
1) Total Commodity Cost	\$ 39,218,116	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)	\$ -	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
d) Total Vaporization Cost (assoc. w/ supply)		
e) Total Volumetric Cost (assoc. w/supply)	\$ 37,561,802	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
f) Total Storage Cost (assoc. w/supply)	\$ 1,656,314	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
g) Other (A&G Benchmark Savings)	\$ -	
2) Total Transportation Cost (Pipeline related)	\$ 12,209,312	Total of items a & b below
a) Total Upstream Canadian Toll	\$ 3,814,194	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 3,814,194	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
ii. Total Volumetric Cost	\$ -	
b) Total Domestic Cost	\$ 8,395,118	Total of items i. & ii. Below
i. Total Demand, Capacity, or Reservation Cost	\$ 8,395,118	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
ii. Total Volumetric Cost	\$ -	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
3) Total Storage Costs	\$ 1,006,742	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
4) Capacity Release Credits	\$ (1,054,905)	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track
5) Total Gas Costs	\$ 51,379,265	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Summary-OR Gas Cost Track

Cascade Natural Gas Corporation
2022 PGA
PGA Summary Sheet
Attachment E

		Location in Company Filing (cite)
5) WACOG (Weighted Average Cost of Gas)		
A) Embedded in Rates		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.28120	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.27260	Current rate on Tariff Sheet No. 177.2
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.15009	Current rate on Tariff Sheet No. 177.2
b. Without revenue sensitive	\$ 0.14550	Current rate on Tariff Sheet No. 177.2
B) Proposed for New Rates		
1) WACOG (Commodity Only)		
a. With revenue sensitive	\$ 0.44009	Summary Rate-Rev Impact, line 1, col (d)
b. Without revenue sensitive	\$ 0.42680	Summary Rate-Rev Impact, line 1, col (c)
2) WACOG (Non-Commodity)		
a. With revenue sensitive	\$ 0.13647	Summary Rate-Rev Impact, line 5, col (d)
b. Without revenue sensitive	\$ 0.13235	Summary Rate-Rev Impact, line 5, col (c)
6) Therms Sold		
	91,887,864	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	65,700,000	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Supply Summary-Price and Types tab
b) Winter-only contracts	125,969,354	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Supply Summary-Price and Types tab
c) Reliance on Spot Gas/Other Short Term Contracts	124,521,406	UG 442 Confidential CNGC Gas Cost WP 7.29.22, Supply Summary-Price and Types tab
d) Other - e.g. Supply area storage		
2) Market Area Storage		
a) Underground-owned		
b) Underground- contracted	28,755,930	UG 442 Confidential CNGC Gas Cost WP 7.29.22, V4-7c-Storage DelCap
c) LNG-owned	-	
d) LNG-contracted	6,622,000	UG 442 Confidential CNGC Gas Cost WP 7.29.22, V4-7c-Storage DelCap
3) Other Resources		
a) Recallable Supply		
b) City gate Deliveries		
c) Owned-Production		
d) Propane/Air	-	