

July 31, 2023

NWN OPUC Advice No. 23-10 / UG 477  
(UM 1750)**VIA ELECTRONIC FILING**

Public Utility Commission of Oregon  
Attention: Filing Center  
201 High Street SE, Suite 100  
Post Office Box 1088  
Salem, Oregon 97308-1088

**Re: REQUEST FOR AMORTIZATION OF DEFERRED WARM ADJUSTMENTS EXCEEDING THE PROGRAM CAPS AND FLOORS, RELATING TO: UM 1750 - WARM Program**

Northwest Natural Gas Company, dba NW Natural (NW Natural or Company), files herewith revisions and additions to its Tariff, P.U.C. Or. 25,<sup>1</sup> stated to become effective with service on and after November 1, 2023, as follows:

Tenth Revision of Sheet 195-1	Schedule 195	Weather Adjusted Rate Mechanism (WARM Program)
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**Purpose**

The purpose of this filing is to request amortization of amounts deferred under docket UM 1750 for inclusion in rates effective November 1, 2023. The Company's previous filing revising rates for this purpose was effective November 1, 2022.

**Background**

This filing is in compliance with ORS 757.259, which authorizes deferred utility expenses or revenues to be allowed (amortized) in rates to the extent authorized by the Public Utility Commission of Oregon (Commission) in a proceeding to change rates. All of the deferrals included in this filing occurred with appropriate application by Commission authorization, as rate orders or under approved tariffs.

**Proposed Changes**

The effect of the application of the new temporary adjustments is to decrease the Company's annual revenues by \$3,598,366, or about 0.42%. In accordance with the Commission's order adopting the Parties' stipulation in UM 1750, the amounts will be recovered on an equal-cents-per-therm basis to rate schedules 2 and 3 customers over 12 months.

The monthly bill of the average residential customer served under Rate Schedule 2 using 56 therms will decrease by \$0.23, and the monthly decrease for the average commercial Rate Schedule 3 customer using 255 therms per month is about \$2.60.

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<sup>1</sup> Tariff P.U.C. Or. 25 originated November 1, 2012 with Docket UG 221; OPUC Order No. 12-408 as supplemented by Order No. 12-437 and was filed pursuant to ORS 767.205 and OAR 860-022-0005.

The proposed adjustments for the amortization of the WARM account are (\$0.00322) per therm for residential Rate Schedule 2 customers and (\$0.00791) per therm for commercial Rate Schedule 3 customers. A worksheet showing all of the rate adjustments can be found in Exhibit A to this filing.

In compliance with OAR 860-022-0025, the Company states that the number of customers affected by the proposed change is 636,785 residential customers and 59,172 commercial customers.

**Conclusion**

In support of this filing, the Company includes supporting materials as part of this filing and will separately submit work papers in electronic format, all of which are incorporated herein by reference.

In accordance with ORS 757.205, copies of this letter and the filing made herewith are available in the Company's main office in Oregon and on its website at [www.nwnatural.com](http://www.nwnatural.com).

Please address correspondence on this matter to Lora Bourdo at [lora.bourdo@nwnatural.com](mailto:lora.bourdo@nwnatural.com) with copies to the following:

eFiling  
Rates & Regulatory Affairs  
NW Natural  
250 SW Taylor Street  
Portland, Oregon 97204  
Fax: (503) 220-2579  
Telephone: (503) 610-7330  
[eFiling@nwnatural.com](mailto:eFiling@nwnatural.com)

Sincerely,

NW NATURAL

*/s/ Kyle Walker, CPA*

Kyle Walker, CPA  
Rates/Regulatory Senior Manager

Attachment: Exhibit A – Supporting Materials

# NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Tenth Revision of Sheet 195-1  
Cancels Ninth Revision of Sheet 195-1

## SCHEDULE 195 WEATHER ADJUSTED RATE MECHANISM (WARM Program)

### **PURPOSE:**

To describe the Weather Adjusted Rate Mechanism (WARM) adopted by the Public Utility Commission of Oregon in Docket UG 221, Order No. 12-408 entered October 26, 2012, as modified in Docket UM 1750 by Commission Order No. 16-223 entered June 20, 2016.

### **APPLICABLE:**

To Residential and Commercial Customers served on the following Rate Schedules of this Tariff:

Rate Schedule 2	Rate Schedule 3
-----------------	-----------------

### **APPLICATION TO RATE SCHEDULES:**

The WARM Adjustment will be applied as an adjustment to the per-therm Billing Rate on applicable Residential and Commercial Customer bills issued during the WARM Period. The WARM Period covers bills that are generated based on meters read on or after December 1<sup>st</sup> and on or before May 15<sup>th</sup>.

### **SPECIAL CONDITIONS:**

1. The WARM Adjustment will apply to Customer bills that are based on applicable Residential Rate Schedule 2 or Commercial Rate Schedule 3 meters read on or after December 1<sup>st</sup> and on or before May 15<sup>th</sup>.
2. Residential bills --The maximum WARM Adjustment (increase or decrease) that will be made to any regular monthly bill during the WARM Period will be twelve dollars (\$12.00), or twenty-five percent (25%) of the usage portion of that bill, whichever is less. For any billing period in which the total monthly WARM adjustment exceeds either \$12.00 or 25% of the usage, the balance of the WARM adjustment will be deferred in accordance with Special Condition 4.
3. Commercial bills--The maximum WARM Adjustment (increase or decrease) that will be added to any regular monthly bill during the WARM Period will be thirty-five dollars (\$35.00), or twenty-five percent (25%) of the usage portion of that bill, whichever is less. For any billing period in which the total monthly WARM adjustment exceeds either thirty-five dollars or 25% of the usage, the balance of the WARM adjustment will be deferred in accordance with Special Condition 4.
4. Any amounts not applied to a Residential or Commercial Customer's bill during the WARM Period due to the caps and floor described in Special Conditions 2 and 3 will be set aside in a respective Residential or Commercial WARM deferral account. Each year, concurrent with the Company's annual Purchased Gas Adjustment (PGA) filing, the balance in the Residential and Commercial WARM deferral accounts will be collected from or credited to all Rate Schedule 2 and Rate Schedule 3 customers, respectively, on an equal cent-per-therm basis. The adjustment included in the Temporary Adjustments reflected in the above-listed Rate Schedules effective November 1, 2023 are:

Rate Schedule 2:	\$(0.00322)
Rate Schedule 3:	\$(0.00791)

(C)

(R)

(R)

(continue to Sheet 195-2)

Issued July 31, 2023  
NWN OPUC Advice No. 23-10

Effective with service on  
and after November 1, 2023

EXHIBIT A

BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON

NW NATURAL SUPPORTING MATERIALS

Non-Gas Cost Deferral Amortizations  
WARM

UM 1750

NWN OPUC Advice No. 23-10 / UG 477

July 31, 2023

# NW NATURAL

## EXHIBIT A

### Supporting Materials

#### Non-Gas Cost Deferral Amortizations

#### WARM

#### NWN OPUC ADVICE NO. 23-10 / UG 477

<b>Description</b>	<b>Page</b>
Calculation of Increments Allocated on Equal Cent per Therm Basis	1
Effects on Average Bill by Rate Schedule	2
Basis for Revenue Related Costs	3
PGA Effects on Revenue	4
Summary of Deferred Accounts Included in the PGA	5
151830 Deferral of WARM – Residential	6
151832 Amortization of WARM – Residential	7
151834 Deferral of WARM – Commercial	8
151836 Amortization of WARM – Commercial	9

NW Natural  
 Rates & Regulatory Affairs  
 2023-24 PGA - Oregon: August Filing  
 Calculation of Increments Allocated on the EQUAL CENT PER THERM BASIS  
 ALL VOLUMES IN THERMS

				WARM Residential			WARM Commercial		
Oregon PGA Proposed Amount:				(1,367,829) Temporary Increment			(1,429,134) Temporary Increment		
Volumes page, Revenue Sensitive Multiplier:				N/A rev sensitive factor is built in			N/A rev sensitive factor is built in		
Column F Amount to Amortize:				(1,367,829) to residential			(1,429,134) to commercial 3		
Schedule	Block	A		Multiplier AC	Volumes AD	Increment AE	Multiplier AF	Volumes AH	Increment AI
2R		425,261,320		1.0	425,261,320	(\$0.00322)	0.0	0	\$0.00000
3C Firm Sales		180,723,276		0.0	0	\$0.00000	1.0	180,723,276	(\$0.00791)
3I Firm Sales		5,242,606		0.0	0	\$0.00000	0.0	0	\$0.00000
27 Dry Out		790,225		0.0	0	\$0.00000	0.0	0	\$0.00000
31C Firm Sales	Block 1	10,541,198		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	11,528,162		0.0	0	\$0.00000	0.0	0	\$0.00000
31C Firm Trans	Block 1	1,150,855		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	1,621,395		0.0	0	\$0.00000	0.0	0	\$0.00000
31I Firm Sales	Block 1	3,851,855		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	8,832,261		0.0	0	\$0.00000	0.0	0	\$0.00000
31I Firm Trans	Block 1	153,988		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	363,573		0.0	0	\$0.00000	0.0	0	\$0.00000
32C Firm Sales	Block 1	31,802,850		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	10,782,597		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	2,237,041		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	1,038,828		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	30,626		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	0		0.0	0	\$0.00000	0.0	0	\$0.00000
32I Firm Sales	Block 1	7,308,477		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	7,116,901		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	2,428,784		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	1,682,852		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	210,463		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	0		0.0	0	\$0.00000	0.0	0	\$0.00000
32C Firm Trans	Block 1	2,586,658		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	2,000,143		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	713,689		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	908,192		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	22,758		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	0		0.0	0	\$0.00000	0.0	0	\$0.00000
32I Firm Trans	Block 1	11,491,095		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	16,722,073		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	10,683,887		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	22,101,234		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	23,116,595		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	7,997,925		0.0	0	\$0.00000	0.0	0	\$0.00000
32C Interr Sales	Block 1	4,812,286		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	6,912,175		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	3,915,818		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	6,195,667		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	3,369,903		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	0		0.0	0	\$0.00000	0.0	0	\$0.00000
32I Interr Sales	Block 1	4,976,544		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	6,358,575		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	3,824,879		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	11,455,866		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	6,274,793		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	1,589,833		0.0	0	\$0.00000	0.0	0	\$0.00000
32C Interr Trans	Block 1	787,487		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	1,577,765		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	946,128		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	3,171,260		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	663,407		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	0		0.0	0	\$0.00000	0.0	0	\$0.00000
32I Interr Trans	Block 1	6,332,023		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 2	10,799,708		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 3	7,423,918		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 4	17,235,563		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 5	38,975,154		0.0	0	\$0.00000	0.0	0	\$0.00000
	Block 6	98,124,177		0.0	0	\$0.00000	0.0	0	\$0.00000
Special Contracts		51,198,641		0.0	0	\$0.00000	0.0	0	\$0.00000
TOTALS		1,109,965,950			425,261,320	\$ (0.00322)		180,723,276	\$ (0.00791)
Sources for line 2 above:				Line 59			Line 61		
Rate Adjustment Schedule				Sched 195			Sched 195		

											Advice 23-10
											See note [7]
1	Oregon PGA		Normal	Minimum	3/15/2023	3/15/2023	Proposed	Proposed			Proposed
2	Normalized		Therms				11/1/2023	11/1/2023			11/1/2023
3	Volumes page,	Therms in	Monthly	Monthly	Billing	Current	WARM	WARM			WARM
4	Column D	Block	Average use	Charge	Rates	Average Bill	Rates	Average Bill			% Bill Change
5					F=D*(C * E)		W = D*(C * V)				X = (W - F)/F
6	Schedule	Block	A	B	C	D	E	F	V	W	X
7	2R		425,261,320	N/A	56	\$8.00	\$1,43686	\$88.46	\$1,43262	\$88.23	-0.3%
8	3C Firm Sales		180,723,276	N/A	255	\$15.00	\$1,18666	\$317.60	\$1,17649	\$315.00	-0.8%
9	3I Firm Sales		5,242,606	N/A	1,304	\$15.00	\$1,13570	\$1,495.95	\$1,13570	\$1,495.95	0.0%
10	27 Dry Out		790,225	N/A	44	\$8.00	\$1,16589	\$59.30	\$1,16589	\$59.30	0.0%
11	31C Firm Sales	Block 1	10,541,198	2,000	2,816	\$325.00	\$0,85127	\$2,700.12	\$0,85127	\$2,700.12	0.0%
12		Block 2	11,528,162	all additional			\$0,82424		\$0,82424		
13	31C Firm Trans	Block 1	1,150,855	2,000	3,916	\$575.00	\$0,28505	\$1,645.54	\$0,28505	\$1,645.54	0.0%
14		Block 2	1,621,395	all additional			\$0,26119		\$0,26119		
15	31I Firm Sales	Block 1	3,851,855	2,000	5,776	\$325.00	\$0,84102	\$5,095.29	\$0,84102	\$5,095.29	0.0%
16		Block 2	8,832,261	all additional			\$0,81786		\$0,81786		
17	31I Firm Trans	Block 1	153,988	2,000	6,161	\$575.00	\$0,24605	\$1,995.36	\$0,24605	\$1,995.36	0.0%
18		Block 2	363,573	all additional			\$0,22309		\$0,22309		
19	32C Firm Sales	Block 1	31,802,850	10,000	7,043	\$675.00	\$0,76861	\$6,088.29	\$0,76861	\$6,088.29	0.0%
20		Block 2	10,782,597	20,000			\$0,74322		\$0,74322		
21		Block 3	2,237,041	20,000			\$0,70109		\$0,70109		
22		Block 4	1,038,828	100,000			\$0,65879		\$0,65879		
23		Block 5	30,626	600,000			\$0,62840		\$0,62840		
24		Block 6	0	all additional			\$0,61401		\$0,61401		
25	32I Firm Sales	Block 1	7,308,477	10,000	18,823	\$675.00	\$0,73013	\$14,247.56	\$0,73013	\$14,247.56	0.0%
26		Block 2	7,116,901	20,000			\$0,71078		\$0,71078		
27		Block 3	2,428,784	20,000			\$0,67847		\$0,67847		
28		Block 4	1,682,852	100,000			\$0,64624		\$0,64624		
29		Block 5	210,463	600,000			\$0,62372		\$0,62372		
30		Block 6	0	all additional			\$0,61239		\$0,61239		
31	32C Firm Trans	Block 1	2,586,658	10,000	19,973	\$925.00	\$0,13291	\$3,390.69	\$0,13291	\$3,390.69	0.0%
32		Block 2	2,000,143	20,000			\$0,11396		\$0,11396		
33		Block 3	713,689	20,000			\$0,08251		\$0,08251		
34		Block 4	908,192	100,000			\$0,05102		\$0,05102		
35		Block 5	22,758	600,000			\$0,03209		\$0,03209		
36		Block 6	0	all additional			\$0,01952		\$0,01952		
37	32I Firm Trans	Block 1	11,491,095	10,000	77,536	\$925.00	\$0,13069	\$7,487.37	\$0,13069	\$7,487.37	0.0%
38		Block 2	16,722,073	20,000			\$0,11214		\$0,11214		
39		Block 3	10,683,887	20,000			\$0,08125		\$0,08125		
40		Block 4	22,101,234	100,000			\$0,05039		\$0,05039		
41		Block 5	23,116,595	600,000			\$0,03179		\$0,03179		
42		Block 6	7,997,925	all additional			\$0,01948		\$0,01948		
43	32C Interr Sales	Block 1	4,812,286	10,000	53,859	\$675.00	\$0,74068	\$38,643.34	\$0,74068	\$38,643.34	0.0%
44		Block 2	6,912,175	20,000			\$0,71933		\$0,71933		
45		Block 3	3,915,818	20,000			\$0,68371		\$0,68371		
46		Block 4	6,195,667	100,000			\$0,64806		\$0,64806		
47		Block 5	3,369,903	600,000			\$0,62665		\$0,62665		
48		Block 6	0	all additional			\$0,61101		\$0,61101		
49	32I Interr Sales	Block 1	4,976,544	10,000	42,886	\$675.00	\$0,72514	\$30,744.73	\$0,72514	\$30,744.73	0.0%
50		Block 2	6,358,575	20,000			\$0,70622		\$0,70622		
51		Block 3	3,824,879	20,000			\$0,67469		\$0,67469		
52		Block 4	11,455,866	100,000			\$0,64312		\$0,64312		
53		Block 5	6,274,793	600,000			\$0,62420		\$0,62420		
54		Block 6	1,589,833	all additional			\$0,61033		\$0,61033		
55	32C Interr Trans	Block 1	787,487	10,000	198,501	\$925.00	\$0,12584	\$12,252.01	\$0,12584	\$12,252.01	0.0%
56		Block 2	1,577,765	20,000			\$0,10802		\$0,10802		
57		Block 3	946,128	20,000			\$0,07829		\$0,07829		
58		Block 4	3,171,260	100,000			\$0,04854		\$0,04854		
59		Block 5	663,407	600,000			\$0,03070		\$0,03070		
60		Block 6	0	all additional			\$0,01883		\$0,01883		
61	32I Interr Trans	Block 1	6,332,023	10,000	209,965	\$925.00	\$0,12605	\$12,645.11	\$0,12605	\$12,645.11	0.0%
62		Block 2	10,799,708	20,000			\$0,10821		\$0,10821		
63		Block 3	7,423,918	20,000			\$0,07848		\$0,07848		
64		Block 4	17,235,563	100,000			\$0,04873		\$0,04873		
65		Block 5	38,975,154	600,000			\$0,03090		\$0,03090		
66		Block 6	98,124,177	all additional			\$0,01900		\$0,01900		
67	Special Contracts		51,198,641	N/A	0	\$0	\$0,00000	\$0.00	\$0,00000	\$0.00	
68											
69	Totals		1,109,965,950								

[1] For convenience of presentation, demand charges for Rate Schedules 31 and 32 have been removed.  
 [2] Tariff Advice Notice 23-05: Non-Gas Cost Deferral Amortizations - Intervenor Funding  
 [3] Tariff Advice Notice 23-06: Non-Gas Cost Deferral Amortizations - Oregon PUC Fee  
 [4] Tariff Advice Notice 23-07: Non-Gas Cost Deferral Amortizations - SRRM  
 [5] Tariff Advice Notice 23-08: Non-Gas Cost Deferral Amortizations - Industrial DSM  
 [6] Tariff Advice Notice 23-09: Non-Gas Cost Deferral Amortizations - Decoupling  
 [7] Tariff Advice Notice 23-10: Non-Gas Cost Deferral Amortizations - WARM  
 [8] Tariff Advice Notice 23-11: Non-Gas Cost Deferral Amortization - Corporate Activity Tax (CAT) Amortization  
 [9] Tariff Advice Notice 23-12: Non-Gas Cost Amortization - Net Curtailment and Entitlement Revenues  
 [10] Tariff Advice Notice 23-13: Non-Gas Cost Amortization - Regulatory Rate Adjustment  
 [11] Tariff Advice Notice 23-14: Non-Gas Cost Amortization - Residential Rate Mitigation  
 [12] Tariff Advice Notice 23-15: Non-Gas Cost Amortization - RNG Transport Allocation  
 [13] Tariff Advice Notice 23-16: COVID Years 2 & 3  
 [14] Tariff Advice Notice 23-17: Non-Gas Cost Amortization - TSA Security Directive  
 [15] Tariff Advice Notice 23-18: CCI's  
 [16] Tariff Advice Notice 23-19: PGA  
 [17] Tariff Advice Notice 23-20: RNG Adj Mechanism

**NW Natural**  
**Rates and Regulatory Affairs**  
**2023-2024 PGA Filing - OREGON**  
**Basis for Revenue Related Costs**

	Twelve Months <u>Ended 06/30/23</u>	
1		
2		
3	\$ 977,383,649	
4	\$ 981,971,599	
5		
6	n/a	0.430% Statutory rate
7	\$ 22,573,887	2.299% Line 7 ÷ Line 4
8	\$ 881,388	0.090% Line 8 ÷ Line 4
9		
10		<u><b>2.819%</b></u> Sum lines 8-9
11		
12		

13 **Note:**

- 14 [1] Dollar figure is set at statutory level of 0.275% times Total Oregon Revenues (line 4).  
 15 Because the fee changed since our last general rate case, the difference between the previous fee of 0.375%  
 16 and the new fee of 0.430%, as it affects our base rates, is being captured as a temporary deferral.  
 17 [2] Represents the normalized net write-offs based on a three-year average.



**NW Natural**  
**Rates & Regulatory Affairs**  
**2023-2024 PGA Filing - Oregon: August Filing**  
**PGA Effects on Revenue**  
**UG 477: WARM**

	<b>Not Including Revenue Sensitive Amount</b>
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<b><u>Temporary Increments</u></b>	
<u>Removal of Current Temporary Increments</u>	
Amortization of WARM (Residential & Commercial)	<u>(801,403)</u>
<u>Addition of Proposed Temporary Increments</u>	
Amortization of WARM (Residential & Commercial)	<u>(2,796,963)</u>
<b>TOTAL OF ALL COMPONENTS OF RATE CHANGES</b>	<b><u><u>(\$3,598,366)</u></u></b>
2022 Oregon Earnings Test Normalized Total Revenues	\$849,278,042
Effect of this filing, as a percentage change (line 12 ÷ line 16)	-0.42%



Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: OR Deferred WARM-Residential  
 Account Number: 151830  
 Docket: Docket UM 1798  
 Last authorization to defer granted in Order 22-391

1 Debit (Credit)

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Month/Year	Note	Deferral	Transfers	Interest Rate	Interest	Activity	Balance
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
7 Beginning Balance							
80	Jul-22	70.46		2.82%	933.81	1,004.27	398,336.20
81	Aug-22	(9.45)		2.82%	936.08	926.63	399,262.83
82	Sep-22	29.67		2.82%	938.30	967.97	400,230.80
83	Oct-22	(12.36)		2.82%	940.53	928.17	401,158.97
84	Nov-22	943.54	(401,080.03)	2.82%	1.29	(400,135.20)	1,023.77
85	Dec-22	(400,102.26)		2.82%	(467.71)	(400,569.97)	(399,546.20)
86	Jan-23	62,075.07		6.13%	(1,882.47)	60,192.60	(339,353.60)
87	Feb-23	(53,872.97)		6.13%	(1,871.13)	(55,744.10)	(395,097.70)
88	Mar-23	(614,187.66)		6.13%	(3,587.03)	(617,774.69)	(1,012,872.39)
89	Apr-23	(254,928.47)		6.13%	(5,825.22)	(260,753.69)	(1,273,626.08)
90	May-23	(8,378.72)		6.13%	(6,527.51)	(14,906.23)	(1,288,532.31)
91	Jun-23	575.59		6.13%	(6,580.78)	(6,005.19)	(1,294,537.50)
92	Jul-23			6.13%	(6,612.93)	(6,612.93)	(1,301,150.43)
93	Aug-23			6.13%	(6,646.71)	(6,646.71)	(1,307,797.14)
94	Sep-23			6.13%	(6,680.66)	(6,680.66)	(1,314,477.80)
95	Oct-23			6.13%	(6,714.79)	(6,714.79)	(1,321,192.59)

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 97 **History truncated for ease of viewing**

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 99 **NOTES**

100 **1** -Transferred June balance plus July-October interest on June balance to account 151832 for amortization.

Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: Amort WARM Residential  
 Account Number: 151832  
 Docket: Dockets UM 1798 and UG 451  
 Amortization of 2021-22 WARM adjustment approved in Order 22-405

Month/Year	Note	Amortization	Transfers	Interest Rate	Interest	Activity	Balance
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Beginning Balance						
70	Nov-22 Old rates	(62,385.91)		1.24%	58.81	(62,327.10)	25,777.63
71	Nov-22 New rates <b>(1)</b>	(23,116.24)	401,080.03	1.82%	590.77	378,554.56	404,332.19
72	Dec-22	(73,948.03)		1.82%	557.16	(73,390.87)	330,941.32
73	Jan-23	(70,648.18)		1.82%	448.35	(70,199.83)	260,741.49
74	Feb-23	(66,148.86)		1.82%	345.30	(65,803.56)	194,937.93
75	Mar-23	(63,798.42)		1.82%	247.28	(63,551.14)	131,386.79
76	Apr-23	(48,718.63)		1.82%	162.33	(48,556.30)	82,830.49
77	May-23	(24,103.35)		1.82%	107.35	(23,996.00)	58,834.49
78	Jun-23	(12,157.35)		1.82%	80.01	(12,077.34)	46,757.15
79	Jul-23 <i>forecasted</i>	<i>(9,426.87)</i>		1.82%	63.77	<i>(9,363.10)</i>	37,394.05
80	Aug-23 <i>forecasted</i>	<i>(9,392.45)</i>		1.82%	49.59	<i>(9,342.86)</i>	28,051.19
81	Sep-23 <i>forecasted</i>	<i>(10,343.87)</i>		1.82%	34.70	<i>(10,309.17)</i>	17,742.02
82	Oct-23 <i>forecasted</i>	<i>(27,123.07)</i>		1.82%	6.34	<i>(27,116.73)</i>	<i>(9,374.71)</i>
83							
84	<b>History truncated for ease of viewing</b>						
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86	<b>NOTES</b>						
87	<b>1</b> - Transferred in authorized balance from account 151830 WARM-Res Deferral for amortization.						

Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: OR Deferred WARM-Commercial  
 Account Number: 151834  
 Docket: Docket UM 1798  
 Last authorization to defer granted in Order 22-391

1 Debit (Credit)

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4	Month/Year	Note	Deferral	Transfers	Interest Rate	Interest	Activity	Balance
5	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
6								
7	Beginning Balance							
80	Jul-22		7.25		2.82%	1,051.77	1,059.02	448,615.98
81	Aug-22		38.57		2.82%	1,054.29	1,092.86	449,708.84
82	Sep-22		53.19		2.82%	1,056.88	1,110.07	450,818.91
83	Oct-22		11.44		2.82%	1,059.44	1,070.88	451,889.79
84	Nov-22	<b>1</b>	969.57	(451,778.85)	2.82%	1.40	(450,807.88)	1,081.91
85	Dec-22		(385,036.28)		2.82%	(449.88)	(385,486.16)	(384,404.25)
86	Jan-23		80,462.97		6.13%	(1,758.15)	78,704.82	(305,699.43)
87	Feb-23		(68,691.95)		6.13%	(1,737.07)	(70,429.02)	(376,128.45)
88	Mar-23		(574,102.52)		6.13%	(3,387.74)	(577,490.26)	(953,618.71)
89	Apr-23		(322,976.66)		6.13%	(5,696.34)	(328,673.00)	(1,282,291.71)
90	May-23		(12,625.09)		6.13%	(6,582.62)	(19,207.71)	(1,301,499.42)
91	Jun-23		455.95		6.13%	(6,647.33)	(6,191.38)	(1,307,690.80)
92	Jul-23				6.13%	(6,680.12)	(6,680.12)	(1,314,370.92)
93	Aug-23				6.13%	(6,714.24)	(6,714.24)	(1,321,085.16)
94	Sep-23				6.13%	(6,748.54)	(6,748.54)	(1,327,833.70)
95	Oct-23				6.13%	(6,783.02)	(6,783.02)	(1,334,616.72)

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98 **History truncated for ease of viewing**

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100 **1** -Transferred June balance plus July-October interest on June balance to account 151836 for amortization.

Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: Amort WARM Commercial  
 Account Number: 151836  
 Docket: Dockets UM 1798 and UG 451  
 Amortization of 2021-22 WARM adjustment approved in Order 22-405

	Month/Year	Note	Amortization	Transfers	Interest Rate	Interest	Activity	Balance
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Beginning Balance							
70	Nov-22	Old rates	(44,318.02)		1.24%	(51.80)	(44,369.82)	(72,338.02)
71	Nov-22	New rates <b>(1)</b>	(19,593.34)	451,778.85	1.82%	670.34	432,855.85	360,517.83
72	Dec-22		(68,862.52)		1.82%	494.56	(68,367.96)	292,149.87
73	Jan-23		(69,082.15)		1.82%	390.71	(68,691.44)	223,458.43
74	Feb-23		(62,915.44)		1.82%	291.20	(62,624.24)	160,834.19
75	Mar-23		(63,754.52)		1.82%	195.58	(63,558.94)	97,275.25
76	Apr-23		(48,271.79)		1.82%	110.93	(48,160.86)	49,114.39
77	May-23		(26,748.78)		1.82%	54.21	(26,694.57)	22,419.82
78	Jun-23		(15,165.81)		1.82%	22.50	(15,143.31)	7,276.51
79	Jul-23	<i>forecasted</i>	<i>(12,437.70)</i>		1.82%	1.60	(12,436.10)	(5,159.59)
80	Aug-23	<i>forecasted</i>	<i>(12,421.30)</i>		1.82%	(17.24)	(12,438.54)	(17,598.13)
81	Sep-23	<i>forecasted</i>	<i>(12,788.80)</i>		1.82%	(36.39)	(12,825.19)	(30,423.32)
82	Oct-23	<i>forecasted</i>	<i>(25,096.95)</i>		1.82%	(65.17)	(25,162.12)	(55,585.44)

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85 **History truncated for ease of viewing**

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87 **Notes:**

88 **1** - Transferred in authorized balance from account 151834 WARM-Comm Deferral for amortization.