



# Oregon

Kate Brown, Governor

## Public Utility Commission

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October 30, 2020



### BY EMAIL

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RE: Advice No. 20-17

The tariff sheets in your October 23, 2020, compliance filing docketed in UG 388, Advice No. 20-17, are accepted in compliance with Order No. 20-364 and 20-369 and PGA Order Nos. 20-342 through 20-349, and 20-360. Attached is a receipted copy of the sheets in your compliance filing for your records.

*/s/ Nolan Moser*

Nolan Moser

Chief Administrative Law Judge

Public Utility Commission of Oregon

(503) 378-3098

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Eighth Revision of Sheet v  
Cancels Seventh Revision of Sheet v

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Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

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**RATE SCHEDULE H  
 LARGE VOLUME NON-RESIDENTIAL  
 HIGH PRESSURE GAS SERVICE (HPGS) RIDER  
 (continued)**

**Monthly Billing Rate (continued)**

Cost Recovery Factors Primary 10-Year Term Effective November 1, 2020		
Year	No Bonus Depreciation	With Bonus Depreciation
Year 1	20.8%	20.3%
Year 2	19.5%	18.6%
Year 3	18.1%	17.5%
Year 4	16.9%	16.4%
Year 5	15.8%	15.5%
Year 6	14.7%	14.5%
Year 7	13.6%	13.5%
Year 8	12.6%	12.6%
Year 9	11.7%	11.7%
Year 10	10.8%	10.8%

(C)  
 (C) (C)  
 (C) (C)

Scheduled Maintenance Charge includes the costs associated with providing Scheduled Maintenance on HPGS Facilities as well as an annual charge of \$10,087 per Customer for administrative services, which includes but is not limited to costs for managing the program, marketing, applying administrative and general overhead allocations, performing Customer credit evaluations, drafting the Customer agreements and site licenses, billing, warehousing and managing inventory of spare parts, monitoring, and dispatching. Scheduled Maintenance costs are initially based on expected labor and material costs known at the time the HPGS Agreement is executed. The labor component recovered through this charge includes the costs for administration. The Scheduled Maintenance Charge may be adjusted annually on the anniversary date of the execution of the HPGS Agreement to reflect any adjustments for differences between expected costs and actual costs, and to reflect any cost changes expected for the next 12-month period.

In addition to the Monthly Facility Charge and the Scheduled Maintenance Charge, the Company will bill and the Customer will be responsible to pay all actual costs associated with the Company's provision of Unscheduled Maintenance and Back-Up Services.

Unscheduled Maintenance will be billed as costs are incurred at actual costs for labor and materials plus overhead expenses.

(continue to Sheet H-6)

Issued October 23, 2020  
 NWN OPUC Advice No. 20-17

Effective with service on  
 and after November 1, 2020

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**SCHEDULE P  
PURCHASED GAS COST ADJUSTMENTS  
(continued)**

**DEFINITIONS (continued):**

7. Estimated Annual Sales Weighted Average Cost of Gas (Annual Sales WACOG):  
The estimated Annual Sales WACOG is the default Commodity Component for billing purposes, and is used for purposes of calculating the monthly gas cost deferral costs for entry into the Account 191 sub-accounts calculated by the following formula: (Forecasted Purchases at Adjusted Contract Prices) divided by forecasted sales volumes.
- a. "Forecasted Purchases" means November 1 – October 31 forecasted sales volumes, "weather-normalized", plus a percentage for distribution system LUGF.
  - 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.

Effective: November 1, 2020:		(C)
Estimated Annual Sales WACOG per therm (w/ revenue sensitive):	<b>\$0.25644</b>	(I)
Estimated Annual Sales WACOG per therm (w/o revenue sensitive):	<b>\$0.24930</b>	(I)

8. Estimated Winter Sales WACOG: The Company's weighted average Commodity Cost of Gas for the five-month period November through March.

Effective: November 1, 2020:		(C)
Estimated Winter Sales WACOG per therm (w/ revenue sensitive):	<b>\$0.27705</b>	(R)
Estimated Winter Sales WACOG per therm (w/o revenue sensitive):	<b>\$0.26934</b>	(R)

9. 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.

10. Estimated Non-Commodity Cost per Therm – Firm Sales: The portion of the Estimated annual Non-Commodity Cost applicable to Firm Sales Service divided by November 1 – October 31 forecasted Firm Sales Service volumes.

Effective: November 1, 2020:		(C)
Estimated Non-Commodity Cost per therm-Firm Sales (w/revenue sensitive):	<b>\$0.10027</b>	(R)
Estimated Non-Commodity Cost per therm-Firm Sales (w/o revenue sensitive):	<b>\$0.09748</b>	(R)

(continue to Sheet P-3)

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Eleventh Revision of Sheet 2-1  
Cancels Tenth Revision of Sheet 2-1

**RATE SCHEDULE 2  
RESIDENTIAL SALES SERVICE**

**AVAILABLE:**

To Residential Class Customers in all territory served by the Company under the Tariff of which this Rate Schedule is a part. Temporary Disconnection of Service is allowed subject to Special Provision 1 of this Rate Schedule. The installation of Distribution Facilities, when required before service can be provided to equipment served under this Rate Schedule, is subject to the provisions of **Schedule X**.

**SERVICE DESCRIPTION:**

Service under this Rate Schedule is Firm Sales Service to gas equipment used for Domestic purposes by qualifying Residential Class Customers.

Service to a Vehicle Fueling Appliance is subject to the conditions set forth in Special Provisions 3 through 6 of this Rate Schedule.

**MONTHLY RATE:** Effective: November 1, 2020

(C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **Schedule 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **Schedule 160**. The rates for service to a Vehicle Fueling Appliance shall be further adjusted as set forth in Special Provision 6 of this Rate Schedule.

Minimum Monthly Bill: Customer Charge plus charges under **Schedule C** or **Schedule 15** (if applicable)

	Base Rate	Base Adjustment	Pipeline Capacity	Commodity	Temporary Adjustment	Total Billing
Customer Charge:	\$8.00	---	---	---	---	<b>\$8.00</b>
Volumetric Charge (per therm):	\$0.57799	\$0.00000	\$0.10027	\$0.25644	(\$0.02738)	<b>\$0.90732</b>

(I)

(continue to Sheet 2-2)

Issued October 23, 2020  
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Effective with service on  
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Eleventh Revision of Sheet 3-4  
 Cancels Tenth Revision of Sheet 3-4

**RATE SCHEDULE 3  
 BASIC FIRM SALES SERVICE - NON-RESIDENTIAL  
 (continued)**

**MONTHLY RATE:** Effective: November 1, 2020

(C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **Schedule 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **Schedule 160**. The rates for service to CNG vehicle fueling equipment shall be further adjusted as set forth in Special Provision 7 of this Rate Schedule.

<b>FIRM SALES SERVICE CHARGES: (03CSF and 03ISF)</b>						<b>Billing Rates [1]</b>
<b>Customer Charge (per month):</b>						<b>\$15.00</b>
<b>Volumetric Charges (per therm):</b>	<b>Base Rate</b>	<b>Base Adjustment</b>	<b>Pipeline Capacity</b>	<b>Commodity Component [2]</b>	<b>Temporary Adjustment</b>	
<b>Commercial</b>	\$0.46794	\$0.00000	\$0.10027	\$0.25644	(\$0.02246)	<b>\$0.80219</b>
<b>Industrial</b>	\$0.39243	\$0.00000	\$0.10027	\$0.25644	\$0.02078	<b>\$0.76992</b>
<b>Standby Charge (per therm of MHDV) [3]:</b>						<b>\$10.00</b>

(I)

(I)

[1] **Schedule C** and **Schedule 15** Charges shall apply, if applicable.

[2] The Commodity Component shown is the Annual Sales WACOG. The actual Commodity Component billed could be different for certain customers as described in the special provisions of this Rate Schedule

[3] Applies to Standby Sales Service only.

**Minimum Monthly Bill.** The Minimum Monthly Bill shall be the Customer Charge plus any **Schedule C** and **Schedule 15** Charges.

Issued October 23, 2020  
 NWN OPUC Advice No. 20-17

Effective with service on  
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Second Revision of Sheet 4-1  
Cancels First Revision of Sheet 4-1

**RATE SCHEDULE 4  
RESIDENTIAL MULTI-FAMILY SERVICE**

**APPLICABLE:**

To Residential tenants that reside in a Participant Multi-Family Building.

**MONTHLY RATE:**      \$9.39

Effective: November 1, 2020

(R)(C)

The monthly rate for service under this Rate Schedule 4 may be adjusted from time to time for the effects of changes approved by the Commission in a general rate case proceeding.

**SPECIAL PROVISIONS:**

1. Low-use gas appliances include gas range or cooktop, gas clothes dryer, and gas barbecue. All Natural Gas usage associated with low-use gas appliances served under this Schedule 4 will be metered and billed from the master meter that serves the Participant Building and will be collected from tenants in accordance with General Rule 17 of this Tariff and with Participant Building policy.
2. Customers billed under this Rate Schedule 4 are not subject to Schedule 301 Public Purposes Funding Surcharges.
3. Customers billed under this Rate Schedule 4 are not eligible for the following programs:

- Schedule 310—Oregon Low-Income Gas Assistance (OLGA)
- Schedule 320—Oregon Low-Income Energy Efficiency Programs (OLIEE)
- Schedule 350—Energy Efficiency Services and Programs - Residential and Commercial

**GENERAL TERMS:**

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

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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OCT 23 2020

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Third Revision of Sheet 15-1  
Cancels Second Revision of Sheet 15-1

**RATE SCHEDULE 15  
CHARGES FOR SPECIAL METERING EQUIPMENT, RENTAL METERS AND  
METERING SERVICES (OPTIONAL)**

**AVAILABLE:**

In all territory served by the Company under the Tariff of which this Rate Schedule is a part.

**TERM OF SERVICE:**

The Term of Service for monthly meter rentals and metering services provided under this Schedule is twelve (12) consecutive billing months. At the end of a full Term of Service, service under this Rate Schedule will continue on a billing month basis until terminated by either the Customer or the Company upon one (1) billing month advance notice.

**MONTHLY METER RENTAL RATES:**

Any Customer may rent supplementary displacement type meters from the Company at the following rates:

Diaphragm Meters: Effective: November 1, 2020 (C)  
The currently available meter sizes and associated monthly charges are shown below:

Meter Size (Cubic Feet/hour)	Monthly Charge
250	\$2.17
630	\$6.20
1000	\$10.65

(R)  
(R)

Rotary Meters: Effective: November 1, 2020 (C)

Meter Size	Meter Capacity (Cubic Feet/hour)	Monthly Charge
1.5M175/15C175	1500	\$28.59
3M175	3000	\$30.86
5M175	5000	\$34.73
7M175	7000	\$35.68
11M175	11000	\$55.27
16M175	16000	\$71.63
23M175	23000	\$96.88
38M175	38000	\$263.60

(R)  
(R)

(continue to Sheet 15-2)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

Received  
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OCT 23 2020

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Third Revision of Sheet 15-2  
 Cancels Second Revision of Sheet 15-2

**RATE SCHEDULE 15**  
**CHARGES FOR SPECIAL METERING EQUIPMENT, RENTAL METERS, AND**  
**METERING SERVICES (OPTIONAL)**

(continued)

**MONTHLY METER RENTAL RATES (Continued):**

The following **diaphragm** meter sizes and associated monthly charges have been grandfathered for billing purposes. These meters/charges are not available to new meter rental requests.

Applicable			
Meters Installed Prior to 9/24/2008	Meters Installed Prior to 4/26/2018	Meter Size (cf/hour)	Monthly Charge
XX		175	\$0.81
	XX	200	\$0.81
	XX	275	\$1.00
XX		310	\$1.00
	XX	415	\$1.70
XX		425	\$1.70
	XX	500	\$1.70
XX		750	\$4.07
XX		800	\$4.07
		1400	\$9.29
	XX	1450	\$9.29
XX		2300	\$14.68
	XX	2500	\$14.68
	XX	3000	\$23.33
XX		5000	\$23.33
	XX	11000	\$23.33
XX		16000	\$23.33
	XX	18000	\$23.33

(N)

(N)

The following **rotary** meter sizes and associated monthly charges have been grandfathered for billing purposes. These meters/charges are not available to new meter rental requests.

Applicable			
Meters Installed Prior to 4/26/2018	Meter Size	Meter Capacity (cf/hour)	Monthly Charge
XX	8C175	800	\$ 13.00

**METERING SERVICES AND CHARGES:**

Metering Service	One Time Charge	Installation Charge	Monthly Charge
Rental Read	---	---	\$0.76
Advanced Automated Meter Reading (AAMR) Device <sup>1</sup>	---	\$1,270.53	\$53.72
Remote Index	---	\$50.00	\$4.00
Pulse Output	---	\$100.00	\$8.00
Administrative Set-Up/Consultation Fee (all meters)	\$100.00	---	---
Technical Assistance (Rotary meters only)	\$100.00	---	---

(R)

<sup>1</sup>Site specific engineering design costs for AAMR will be added to the installation charge if needed.

(continue to Sheet 15-3)

Issued October 23, 2020  
 NWN OPUC Advice No. 20-17

Effective with service on  
 and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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Received  
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 OCT 23 2020

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Ninth Revision of Sheet 27-1  
Cancels Eighth Revision of Sheet 27-1

**RATE SCHEDULE 27  
RESIDENTIAL HEATING DRY-OUT SERVICE**

**AVAILABLE:**

To Residential home builders, developers, and contractors during the period that a Residential dwelling is under construction, in all territory served by the Company under the Tariff of which this Rate Schedule is a part.

**SERVICE DESCRIPTION:**

Service under this Rate Schedule is restricted to the use of gas in approved permanently-installed gas heating equipment in place during the period the dwelling is under construction. Upon occupancy of the dwelling, service under this Rate Schedule shall terminate automatically. In no event will service under this Rate Schedule continue for a period of time greater than twelve (12) months from the date the gas meter is set at the dwelling. Upon termination of service under this Rate Schedule, gas service shall transfer to **Schedule 2**.

**MONTHLY RATE:** Effective: November 1, 2020

(C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **Schedule 100** for a list of applicable temporary adjustments. Rates are subject to charges for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **Schedule 160**.

	Base Rate	Base Adjustment	Pipeline Capacity Rate	Commodity Rate	Temporary Adjustment	Billing Rate
Customer Charge:	\$8.00	---	---	---	---	<b>\$8.00</b>
Volumetric Charge (per therm)						
All therms	\$0.39846	\$0.00000	\$0.10027	\$0.25644	(\$0.00447)	<b>\$0.75070</b>

(I)

(I)

Minimum Monthly Bill: Customer Charge, plus charges under **Schedule C** and **Schedule 15** (if applicable)

**GENERAL TERMS:**

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

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NWN OPUC Advice No. 20-17

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Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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**RATE SCHEDULE 31**  
**NON-RESIDENTIAL FIRM SALES AND FIRM TRANSPORTATION SERVICE**  
(continued)

**MONTHLY RATES FOR COMMERCIAL CUSTOMER CLASS:**

**Effective: November 1, 2020** (C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See Schedule 100 for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in Schedule 160. The rates for service to CNG vehicle fueling equipment shall be further adjusted as set forth in Provision No. 2 of the "SPECIAL CONDITIONS FOR COMPRESSED NATURAL GAS ("CNG") SERVICE FOR VEHICULAR USE" of this Rate Schedule.

<b>FIRM SALES SERVICE CHARGES (31 CSF) [1]:</b>					Billing Rates
Customer Charge (per month):					<b>\$325.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.25989	\$0.00000	\$0.25644	(\$0.00980)	<b>\$0.50653</b> (R)
Block 2: All additional therms	\$0.23713	\$0.00000	\$0.25644	(\$0.00939)	<b>\$0.48418</b> (R)
<b>Pipeline Capacity Charge Options (select one):</b>					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					<b>\$0.10027</b> (R)
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					<b>\$1.48</b> (R)
<b>FIRM TRANSPORTATION SERVICE CHARGES (31 CTF):</b>					
Customer Charge (per month):					<b>\$325.00</b>
Transportation Charge (per month):					<b>\$250.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [4]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.22948	\$0.00000		(\$0.00433)	<b>\$0.22515</b> (I)
Block 2: All additional therms	\$0.20980	\$0.00000		(\$0.00393)	<b>\$0.20587</b> (I)

[1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15.  
[2] The stated rate is the Company's Annual Sales WACOG. However, the Commodity Component to be billed will be dependent on Customer's Service Type Selection and may instead be Winter Sales WACOG or Monthly Incremental Cost of Gas.  
[3] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply.  
[4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 162 may also apply.

(continue to Sheet 31-12)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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**RATE SCHEDULE 31**  
**NON-RESIDENTIAL FIRM SALES AND FIRM TRANSPORTATION SERVICE**  
(continued)

**MONTHLY RATES FOR INDUSTRIAL CUSTOMER CLASS:** **Effective: November 1, 2020** (C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **SCHEDULE 160**.

<b>FIRM SALES SERVICE CHARGES (31 ISF) [1]:</b>					<b>Billing Rates</b>
Customer Charge (per month):					<b>\$325.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.20042	\$0.00000	\$0.25644	\$0.02238	<b>\$0.47924</b> (I)
Block 2: All additional therms	\$0.18068	\$0.00000	\$0.25644	\$0.02272	<b>\$0.45984</b> (I)
<b>Pipeline Capacity Charge Options (select one):</b>					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					<b>\$0.10027</b> (R)
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					<b>\$1.48</b> (R)
<b>FIRM TRANSPORTATION SERVICE CHARGES (31 ITF):</b>					
Customer Charge (per month):					<b>\$325.00</b>
Transportation Charge (per month):					<b>\$250.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [4]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.20139	\$0.00000		(\$0.00315)	<b>\$0.19824</b> (I)
Block 2: All additional therms	\$0.18202	\$0.00000		(\$0.00282)	<b>\$0.17920</b> (I)

- [1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from **SCHEDULE C** and **SCHEDULE 15**.
- [2] The stated rate is the Company's Annual Sales WACOG. However, the Commodity Component to be billed will be dependent on Customer's Service Type Selection and may instead be Winter Sales WACOG, or Monthly Incremental Cost of Gas.
- [3] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in **SCHEDULE 162** may not apply.
- [4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in **SCHEDULE 162** may also apply.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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**RATE SCHEDULE 32**  
**LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE**  
(continued)

**MONTHLY RATES:**

**Effective: November 1, 2020**

(C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **SCHEDULE 160**.

<b>FIRM SALES SERVICE CHARGES [1]:</b>					<b>Billing Rates</b>
Customer Charge (per month, all service types):					<b>\$675.00</b>
	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
<b>32 CSF Volumetric Charges (per therm):</b>					
Block 1: 1 <sup>st</sup> 10,000 therms	\$0.12925	\$0.00000	\$0.25644	\$0.02238	<b>\$0.40807</b>
Block 2: Next 20,000 therms	\$0.10911	\$0.00000	\$0.25644	\$0.02289	<b>\$0.38844</b>
Block 3: Next 20,000 therms	\$0.07565	\$0.00000	\$0.25644	\$0.02372	<b>\$0.35581</b>
Block 4: Next 100,000 therms	\$0.04208	\$0.00000	\$0.25644	\$0.02457	<b>\$0.32309</b>
Block 5: Next 600,000 therms	\$0.01796	\$0.00000	\$0.25644	\$0.02519	<b>\$0.29959</b>
Block 6: All additional therms	\$0.00652	\$0.00000	\$0.25644	\$0.02514	<b>\$0.28810</b>
<b>32 ISF Volumetric Charges (per therm):</b>					
Block 1: 1 <sup>st</sup> 10,000 therms	\$0.11887	\$0.00000	\$0.25644	\$0.02328	<b>\$0.39859</b>
Block 2: Next 20,000 therms	\$0.10035	\$0.00000	\$0.25644	\$0.02366	<b>\$0.38045</b>
Block 3: Next 20,000 therms	\$0.06942	\$0.00000	\$0.25644	\$0.02427	<b>\$0.35013</b>
Block 4: Next 100,000 therms	\$0.03858	\$0.00000	\$0.25644	\$0.02488	<b>\$0.31990</b>
Block 5: Next 600,000 therms	\$0.01706	\$0.00000	\$0.25644	\$0.02532	<b>\$0.29882</b>
Block 6: All additional therms	\$0.00623	\$0.00000	\$0.25644	\$0.02526	<b>\$0.28793</b>
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					<b>\$0.15748</b>
Firm Sales Service Storage Charge (per therm of MDDV per month):					<b>\$0.20415</b>
<b>Pipeline Capacity Charge Options (select one):</b>					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					<b>\$0.10027</b>
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV per month):					<b>\$1.48</b>

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[1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15.  
 [2] The stated rate is the Company's Annual Sales WACOG. However, the Commodity Component to be billed will be dependent on Customer's Service Type Selection and may instead be Winter Sales WACOG or Monthly Incremental Cost of Gas.  
 [3] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply.

(continue to Sheet 32-13)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY*  
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**RATE SCHEDULE 32**  
**LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE**  
(continued)

**MONTHLY RATES (continued):**

**Effective: November 1, 2020**

(C)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **SCHEDULE 160**

<b>INTERRUPTIBLE SALES SERVICE CHARGES [1][4]:</b>					<b>Billing Rates</b>
Customer Charge (per month):					<b>\$675.00</b>
	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
<b>32 CSI Volumetric Charges (per therm):</b>					
Block 1: 1 <sup>st</sup> 10,000 therms	\$0.11743	\$0.00000	\$0.25644	\$0.02412	<b>\$0.39799</b>
Block 2: Next 20,000 therms	\$0.09914	\$0.00000	\$0.25644	\$0.02441	<b>\$0.37999</b>
Block 3: Next 20,000 therms	\$0.06862	\$0.00000	\$0.25644	\$0.02486	<b>\$0.34992</b>
Block 4: Next 100,000 therms	\$0.03810	\$0.00000	\$0.25644	\$0.02536	<b>\$0.31990</b>
Block 5: Next 600,000 therms	\$0.01978	\$0.00000	\$0.25644	\$0.02565	<b>\$0.30187</b>
Block 6: All additional therms	\$0.00638	\$0.00000	\$0.25644	\$0.02568	<b>\$0.28850</b>
Interruptible Pipeline Capacity Charge (per therm):					<b>\$0.01193</b>
<b>32 ISI Volumetric Charges (per therm):</b>					
Block 1: 1 <sup>st</sup> 10,000 therms	\$0.11691	\$0.00000	\$0.25644	\$0.02426	<b>\$0.39761</b>
Block 2: Next 20,000 therms	\$0.09869	\$0.00000	\$0.25644	\$0.02451	<b>\$0.37964</b>
Block 3: Next 20,000 therms	\$0.06831	\$0.00000	\$0.25644	\$0.02499	<b>\$0.34974</b>
Block 4: Next 100,000 therms	\$0.03792	\$0.00000	\$0.25644	\$0.02547	<b>\$0.31983</b>
Block 5: Next 600,000 therms	\$0.01968	\$0.00000	\$0.25644	\$0.02574	<b>\$0.30186</b>
Block 6: All additional therms	\$0.00634	\$0.00000	\$0.25644	\$0.02576	<b>\$0.28854</b>
Interruptible Pipeline Capacity Charge (per therm):					<b>\$0.01193</b>

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[1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15.

[2] The stated rate is the Company's Annual Sales WACOG. However, the Commodity Component to be billed will be dependent on Customer's Service Type Selection and may instead be Winter Sales WACOG or Monthly Incremental Cost of Gas.

[3] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply.

[4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 162 may also apply.

(continue to Sheet 32-14)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY*  
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Ninth Revision of Sheet 32-14  
Cancels Eighth Revision of Sheet 32-14

**RATE SCHEDULE 32  
LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE  
(continued)**

**MONTHLY RATES (continued):**

**Effective: November 1, 2020**

The rates shown in this Rate Schedule may not always reflect actual billing rates. See SCHEDULE 100 for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in Schedule 160.

<b>FIRM TRANSPORTATION SERVICE CHARGES (32 CTF and 32 ITF) [1]:</b>					<b>Billing Rates</b>
Customer Charge (per month):					<b>\$675.00</b>
Transportation Charge (per month):					<b>\$250.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [2]	
<b>Commercial</b>					
Block 1: 1st 10,000 therms	\$0.12059	\$0.00000		(\$0.00228)	<b>\$0.11831</b>
Block 2: Next 20,000 therms	\$0.10247	\$0.00000		(\$0.00191)	<b>\$0.10056</b>
Block 3: Next 20,000 therms	\$0.07236	\$0.00000		(\$0.00133)	<b>\$0.07103</b>
Block 4: Next 100,000 therms	\$0.04222	\$0.00000		(\$0.00073)	<b>\$0.04149</b>
Block 5: Next 600,000 therms	\$0.02409	\$0.00000		(\$0.00047)	<b>\$0.02362</b>
Block 6: All additional therms	\$0.01210	\$0.00000		(\$0.00023)	<b>\$0.01187</b>
<b>Industrial</b>					
Block 1: 1st 10,000 therms	\$0.11903	\$0.00000		(\$0.00192)	<b>\$0.11711</b>
Block 2: Next 20,000 therms	\$0.10116	\$0.00000		(\$0.00161)	<b>\$0.09955</b>
Block 3: Next 20,000 therms	\$0.07142	\$0.00000		(\$0.00110)	<b>\$0.07032</b>
Block 4: Next 100,000 therms	\$0.04168	\$0.00000		(\$0.00060)	<b>\$0.04108</b>
Block 5: Next 600,000 therms	\$0.02379	\$0.00000		(\$0.00029)	<b>\$0.02350</b>
Block 6: All additional therms	\$0.01194	\$0.00000		(\$0.00008)	<b>\$0.01186</b>
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					<b>\$0.15748</b>

<b>INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (32 CTI and ITI) [1][3]:</b>					<b>Billing Rates</b>
Customer Charge (per month):					<b>\$675.00</b>
Transportation Charge (per month):					<b>\$250.00</b>
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [2]	
<b>Commercial</b>					
Block 1: 1st 10,000 therms	\$0.11522	\$0.00000		(\$0.00162)	<b>\$0.11360</b>
Block 2: Next 20,000 therms	\$0.09794	\$0.00000		(\$0.00137)	<b>\$0.09657</b>
Block 3: Next 20,000 therms	\$0.06915	\$0.00000		(\$0.00097)	<b>\$0.06818</b>
Block 4: Next 100,000 therms	\$0.04033	\$0.00000		(\$0.00056)	<b>\$0.03977</b>
Block 5: Next 600,000 therms	\$0.02306	\$0.00000		(\$0.00030)	<b>\$0.02276</b>
Block 6: All additional therms	\$0.01156	\$0.00000		(\$0.00016)	<b>\$0.01140</b>
<b>Industrial</b>					
Block 1: 1st 10,000 therms	\$0.11522	\$0.00000		(\$0.00153)	<b>\$0.11369</b>
Block 2: Next 20,000 therms	\$0.09794	\$0.00000		(\$0.00129)	<b>\$0.09665</b>
Block 3: Next 20,000 therms	\$0.06915	\$0.00000		(\$0.00089)	<b>\$0.06826</b>
Block 4: Next 100,000 therms	\$0.04033	\$0.00000		(\$0.00047)	<b>\$0.03986</b>
Block 5: Next 600,000 therms	\$0.02306	\$0.00000		(\$0.00023)	<b>\$0.02283</b>
Block 6: All additional therms	\$0.01156	\$0.00000		(\$0.00006)	<b>\$0.01150</b>

[1] For Firm Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus the Distribution Capacity Charge, plus any other charges that may apply from Schedule C or Schedule 15.  
 [2] Where applicable, the Account 191 Adjustments shall apply.  
 [3] For Interruptible Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus any other charges that may apply from Schedule C or Schedule 15.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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Ninth Revision of Sheet 33-8  
 Cancels Eighth Revision of Sheet 33-8

**RATE SCHEDULE 33  
 HIGH VOLUME NON-RESIDENTIAL  
 FIRM AND INTERRUPTIBLE TRANSPORTATION SERVICE**  
 (continued)

**MONTHLY RATE:**

Effective: November 1, 2020

(C)

The rates shown below may not always reflect actual billing rates. See **Schedule 100** for a list of applicable temporary adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

<b>FIRM TRANSPORTATION SERVICE CHARGES (33 TF)</b>					
					<b>Billing Rates</b>
Customer Charge:					<b>\$38,000.00</b>
Transportation Charge:					<b>\$250.00</b>
Volumetric Charge:		Base Rate	Base Rate Adjustments	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00574	\$0.00000	\$0.00000	<b>\$0.00574</b>
Firm Service Distribution Capacity Charge: Per therm of MDDV per month					<b>\$0.15748</b>
<b>Minimum Monthly Bill:</b> Customer Charge, plus Transportation Charge, plus Firm Service Distribution Capacity Charge, plus any other charges that may apply from <b>Schedule C</b> and <b>Schedule 15</b> .					

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<b>INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (33 TI)</b>					
					<b>Billing Rates</b>
Customer Charge:					<b>\$38,000.00</b>
Transportation Charge:					<b>\$250.00</b>
Volumetric Charge:		Base Rate	Base Rate Adjustments	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00574	\$0.00000	\$0.00000	<b>\$0.00574</b>
<b>Minimum Monthly Bill:</b> Customer Charge, plus Transportation Charge, plus any other charges that may apply from <b>Schedule C</b> and <b>Schedule 15</b> .					

(R)

[1] Where applicable, as set forth in this Rate Schedule, the Account 191 portion of the Temporary Adjustments as set forth in **Schedule 162** shall apply.

Issued October 23, 2020  
 NWN OPUC Advice No. 20-17

Effective with service on  
 and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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**SCHEDULE 100  
SUMMARY OF TEMPORARY ADJUSTMENTS**

**PURPOSE:**

To list the temporary adjustments included in billing rates.

**DESCRIPTION:**

The temporary adjustments to rates reflected in this Schedule are the result of the Commission's approval of an application by NW Natural to defer certain revenues or expenses for later amortization in customer rates under the authority of ORS 757.259, OAR 860-022-0070, and OAR 860-027-0300. The details specific to each adjustment can be found in the respective Adjustment Schedules.

All adjustment amounts identified in this Schedule shall be in effect for a 12-month period commencing with the stated effective date, or for such other period approved by the Commission.

**APPLICABLE:**

To the following Rate Schedules of this Tariff:

Rate Schedule 2	Rate Schedule 27	Rate Schedule 32
Rate Schedule 3	Rate Schedule 31	Rate Schedule 33

**TABLE OF TEMPORARY ADJUSTMENTS: Effective: November 1, 2020**

(C)

All temporary adjustments are stated on a cent per therm basis.

**Schedule 2: Residential Sales Service**

		Applicable	Firm Sales		
			Residential		
Schedule 162	Deferred Gas Cost Amortization	All Therms	(\$0.00099)		(R)
Schedule 172	Intervenor Funding	All Therms	\$0.00027		(R)
Schedule 173	Holding Company Formation Credits	All Therms	(\$0.00087)		(I)
Schedule 177	Corporate Activity Tax (CAT)	All Therms	\$0.00291		(N)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	All Therms	(\$0.00617)		(R)
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	All Therms	(\$0.00164)		(N)
Schedule 181	Regulatory Fee	All Therms	\$0.00054		(I)
Schedule 183	Environmental Cost Recovery (SRRM)	All Therms	\$0.00728		(R)
Schedule 190	Decoupling Adjustment	All Therms	(\$0.02523)		(R)
Schedule 195	WARM True-up	All Therms	\$0.00168		(I)
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	All Therms	(\$0.00516)		(N)

**Schedule 3: Basic Firm Sales - Non-Residential**

		Applicable	Firm Sales		
			Commercial	Industrial	
Schedule 162	Deferred Gas Cost Amortization	All Therms	(\$0.00099)	(\$0.00099)	(R)(R)
Schedule 172	Intervenor Funding	All Therms		\$0.00008	(R)
Schedule 173	Holding Company Formation Credits	All Therms	(\$0.00061)	(\$0.00052)	(I)(I)
Schedule 177	Corporate Activity Tax (CAT)	All Therms	\$0.00238	\$0.00202	(N)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	All Therms	(\$0.00432)	(\$0.00368)	(R)(R)
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	All Therms	(\$0.00130)	(\$0.00118)	(N)
Schedule 181	Regulatory Fee	All Therms	\$0.00044	\$0.00041	(I)(I)
Schedule 183	Environmental Cost Recovery (SRRM)	All Therms	\$0.00510	\$0.00434	(R)(R)
Schedule 188	Industrial DSM	All Therms		\$0.02678	(I)
Schedule 190	Decoupling Adjustment	All Therms	(\$0.02241)		(R)
Schedule 195	WARM True-up	All Therms	\$0.00441		(I)
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	All Therms	(\$0.00516)	(\$0.00648)	(N)

(continue to Sheet 100-2)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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Fifth Revision of Sheet 100-2  
 Cancels Fourth Revision of Sheet 100-2

**SCHEDULE 100  
 SUMMARY OF TEMPORARY ADJUSTMENTS  
 (continued)**

**TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2020**

(C)

**Rate Schedule 27: Residential Heating Dry Out Service**

		Applicable	FIRM SALES		
			Commercial		
Schedule 162	Deferred Gas Cost Amortization	All Therms	(\$0.00099)		(R)
Schedule 173	Holding Company Formation Credits	All Therms	(\$0.00070)		(I)
Schedule 177	Corporate Activity Tax (CAT)	All Therms	\$0.00250		(N)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	All Therms	(\$0.00499)		(R)
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	All Therms	(\$0.00148)		(N)
Schedule 181	Regulatory Fee	All Therms	\$0.00048		(I)
Schedule 183	Environmental Cost Recovery (SRRM)	All Therms	\$0.00587		(R)
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	All Therms	(\$0.00516)		(N)

**Schedule 31: Non-Residential Firm Sales and Firm Transportation**

		Applicable	FIRM SALES		FIRM TRANSPORTATION		
			Commercial	Industrial	Commercial	Industrial	
Schedule 162	Deferred Gas Cost Amortization	All Blocks	(\$0.00099)	(\$0.00099)			(C)
Schedule 172	Intervenor Funding	All Blocks		\$0.00008		\$0.00008	
Schedule 173	Holding Company Formation Credits	Block 1	(\$0.00048)	(\$0.00034)	(\$0.00048)	(\$0.00039)	
		Block 2	(\$0.00044)	(\$0.00031)	(\$0.00044)	(\$0.00035)	(C)
Schedule 177	Corporate Activity Tax (CAT)	Block 1	\$0.00190	\$0.00133	\$0.00182	\$0.00136	(N)
		Block 2	\$0.00174	\$0.00121	\$0.00167	\$0.00124	(N)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	Block 1	(\$0.00342)	(\$0.00242)	(\$0.00341)	(\$0.00275)	(C)
		Block 2	(\$0.00312)	(\$0.00217)	(\$0.00311)	(\$0.00249)	(C)
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	Block 1	(\$0.00114)	(\$0.00095)	(\$0.00061)	(\$0.00046)	(N)
		Block 2	(\$0.00108)	(\$0.00091)	(\$0.00056)	(\$0.00042)	(N)
Schedule 181	Regulatory Fee	All Blocks	\$0.00039	\$0.00032	\$0.00019	\$0.00014	(C)
Schedule 183	Environmental Cost Recovery (SRRM)	Block 1	\$0.00404	\$0.00285	\$0.00401	\$0.00324	
		Block 2	\$0.00368	\$0.00257	\$0.00367	\$0.00293	
Schedule 188	Industrial DSM	All Blocks		\$0.02678			
Schedule 190	Decoupling Adjustment	All Blocks	(\$0.00401)				(C)
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	Block 1	(\$0.00609)	(\$0.00428)	(\$0.00585)	(\$0.00437)	(N)
		Block 2	(\$0.00556)	(\$0.00386)	(\$0.00535)	(\$0.00395)	(N)

(continue to Sheet 100-3)

Issued on October 23, 2020  
 NWN OPUC Advice No. 20-17

Effective with service on  
 and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Sixth Revision of Sheet 100-3  
Cancels Fifth Revision of Sheet 100-3

**SCHEDULE 100**  
**SUMMARY OF TEMPORARY ADJUSTMENTS**  
(continued)

**TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2020**

(C)

**Schedule 32: Large Volume Non-Residential Sales and Transportation**

		Applicable	FIRM SALES		FIRM TRANSPORTATION		
			Commercial	Industrial	Commercial	Industrial	
Schedule 162	Deferred Gas Cost Amortization	All Blocks	(\$0.00099)	(\$0.00099)			(C)
Schedule 172	Intervenor Funding	All Blocks		\$0.00008		\$0.00008	(C)
Schedule 173	Holding Company Formation Credits	Block 1	(\$0.00030)	(\$0.00021)	(\$0.00024)	(\$0.00019)	(C)
		Block 2	(\$0.00025)	(\$0.00017)	(\$0.00020)	(\$0.00016)	
		Block 3	(\$0.00018)	(\$0.00012)	(\$0.00014)	(\$0.00011)	
		Block 4	(\$0.00010)	(\$0.00007)	(\$0.00008)	(\$0.00007)	
		Block 5	(\$0.00004)	(\$0.00003)	(\$0.00005)	(\$0.00004)	
		Block 6	(\$0.00002)	(\$0.00001)	(\$0.00002)	(\$0.00002)	
Schedule 177	Corporate Activity Tax (CAT)	Block 1	\$0.00130	\$0.00095	\$0.00095	\$0.00082	(N)
		Block 2	\$0.00110	\$0.00080	\$0.00081	\$0.00070	
		Block 3	\$0.00076	\$0.00056	\$0.00057	\$0.00049	
		Block 4	\$0.00042	\$0.00030	\$0.00033	\$0.00028	
		Block 5	\$0.00019	\$0.00014	\$0.00019	\$0.00017	
		Block 6	\$0.00007	\$0.00005	\$0.00010	\$0.00008	
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	Block 1	(\$0.00212)	(\$0.00144)	(\$0.00170)	(\$0.00135)	(C)
		Block 2	(\$0.00179)	(\$0.00122)	(\$0.00144)	(\$0.00115)	
		Block 3	(\$0.00124)	(\$0.00084)	(\$0.00102)	(\$0.00081)	
		Block 4	(\$0.00069)	(\$0.00046)	(\$0.00059)	(\$0.00047)	
		Block 5	(\$0.00029)	(\$0.00019)	(\$0.00034)	(\$0.00027)	
		Block 6	(\$0.00010)	(\$0.00006)	(\$0.00017)	(\$0.00013)	
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	Block 1	(\$0.00094)	(\$0.00082)	(\$0.00032)	(\$0.00028)	(N)
		Block 2	(\$0.00087)	(\$0.00077)	(\$0.00027)	(\$0.00023)	
		Block 3	(\$0.00076)	(\$0.00069)	(\$0.00019)	(\$0.00017)	
		Block 4	(\$0.00064)	(\$0.00060)	(\$0.00011)	(\$0.00010)	
		Block 5	(\$0.00056)	(\$0.00055)	(\$0.00006)	(\$0.00006)	
		Block 6	(\$0.00052)	(\$0.00052)	(\$0.00003)	(\$0.00003)	
Schedule 181	Regulatory Fee	All Blocks	\$0.00033	\$0.00027	\$0.00009	\$0.00004	(C)
Schedule 188	Industrial DSM	All Blocks	\$0.02678	\$0.02678			(C)
Schedule 183	Environmental Cost Recovery (SRRM)	Block 1	\$0.00251	\$0.00171	\$0.00200	\$0.00159	(C)
		Block 2	\$0.00212	\$0.00145	\$0.00170	\$0.00135	
		Block 3	\$0.00147	\$0.00100	\$0.00120	\$0.00096	
		Block 4	\$0.00082	\$0.00056	\$0.00070	\$0.00056	
		Block 5	\$0.00035	\$0.00025	\$0.00040	\$0.00032	
		Block 6	\$0.00013	\$0.00009	\$0.00020	\$0.00016	
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	Block 1	(\$0.00419)	(\$0.00305)	(\$0.00306)	(\$0.00263)	(N)
		Block 2	(\$0.00354)	(\$0.00257)	(\$0.00260)	(\$0.00224)	
		Block 3	(\$0.00245)	(\$0.00178)	(\$0.00184)	(\$0.00158)	
		Block 4	(\$0.00136)	(\$0.00099)	(\$0.00107)	(\$0.00092)	
		Block 5	(\$0.00058)	(\$0.00044)	(\$0.00061)	(\$0.00053)	
		Block 6	(\$0.00021)	(\$0.00016)	(\$0.00031)	(\$0.00026)	

(continue to Sheet 100-4)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Fifth Revision of Sheet 100-4  
Cancels Fourth Revision of Sheet 100-4

**SCHEDULE 100  
SUMMARY OF TEMPORARY ADJUSTMENTS  
(continued)**

**TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2020**

**Schedule 32: Large Volume Non-Residential Sales and Transportation**

		Applicable	INTERRUPTIBLE SALES		INTERRUPTIBLE TRANSPORT	
			Commercial	Industrial	Commercial	Industrial
Schedule 162	Deferred Gas Cost Amortization	All Blocks	(\$0.00051)	(\$0.00051)		
Schedule 172	Intervenor Funding	All Blocks		\$0.00008		\$0.00008
Schedule 173	Holding Company Formation Credits	Block 1	(\$0.00018)	(\$0.00018)	(\$0.00017)	(\$0.00017)
		Block 2	(\$0.00015)	(\$0.00016)	(\$0.00014)	(\$0.00014)
		Block 3	(\$0.00010)	(\$0.00011)	(\$0.00010)	(\$0.00010)
		Block 4	(\$0.00006)	(\$0.00006)	(\$0.00006)	(\$0.00006)
		Block 5	(\$0.00003)	(\$0.00003)	(\$0.00003)	(\$0.00003)
		Block 6	(\$0.00001)	(\$0.00001)	(\$0.00002)	(\$0.00002)
Schedule 177	Corporate Activity Tax (CAT)	Block 1	\$0.00074	\$0.00073	\$0.00067	\$0.00067
		Block 2	\$0.00063	\$0.00061	\$0.00057	\$0.00057
		Block 3	\$0.00043	\$0.00042	\$0.00040	\$0.00040
		Block 4	\$0.00024	\$0.00024	\$0.00024	\$0.00024
		Block 5	\$0.00013	\$0.00012	\$0.00014	\$0.00014
		Block 6	\$0.00004	\$0.00004	\$0.00007	\$0.00007
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	Block 1	(\$0.00126)	(\$0.00129)	(\$0.00119)	(\$0.00120)
		Block 2	(\$0.00106)	(\$0.00110)	(\$0.00101)	(\$0.00102)
		Block 3	(\$0.00074)	(\$0.00075)	(\$0.00072)	(\$0.00073)
		Block 4	(\$0.00040)	(\$0.00041)	(\$0.00042)	(\$0.00042)
		Block 5	(\$0.00020)	(\$0.00021)	(\$0.00024)	(\$0.00025)
		Block 6	(\$0.00006)	(\$0.00006)	(\$0.00012)	(\$0.00012)
Schedule 180	Gas Reserves and Plant EDIT True-Up Credit	Block 1	(\$0.00075)	(\$0.00074)	(\$0.00022)	(\$0.00022)
		Block 2	(\$0.00071)	(\$0.00071)	(\$0.00019)	(\$0.00019)
		Block 3	(\$0.00065)	(\$0.00064)	(\$0.00013)	(\$0.00013)
		Block 4	(\$0.00058)	(\$0.00058)	(\$0.00008)	(\$0.00008)
		Block 5	(\$0.00054)	(\$0.00054)	(\$0.00004)	(\$0.00004)
		Block 6	(\$0.00051)	(\$0.00051)	(\$0.00002)	(\$0.00002)
Schedule 181	Regulatory Fee	All Blocks	\$0.00017	\$0.00018	\$0.00002	\$0.00002
Schedule 183	Environmental Cost Recovery (SRRM)	Block 1	\$0.00150	\$0.00154	\$0.00140	\$0.00142
		Block 2	\$0.00126	\$0.00130	\$0.00119	\$0.00120
		Block 3	\$0.00087	\$0.00090	\$0.00084	\$0.00085
		Block 4	\$0.00049	\$0.00050	\$0.00049	\$0.00050
		Block 5	\$0.00025	\$0.00026	\$0.00028	\$0.00028
		Block 6	\$0.00008	\$0.00008	\$0.00014	\$0.00014
Schedule 188	Industrial DSM	All Blocks	\$0.02678	\$0.02678		
Schedule 196	EDIT Related to the 2017 Federal Tax Cuts and Jobs Act	Block 1	(\$0.00237)	(\$0.00233)	(\$0.00213)	(\$0.00213)
		Block 2	(\$0.00200)	(\$0.00196)	(\$0.00181)	(\$0.00181)
		Block 3	(\$0.00139)	(\$0.00136)	(\$0.00128)	(\$0.00128)
		Block 4	(\$0.00077)	(\$0.00075)	(\$0.00075)	(\$0.00075)
		Block 5	(\$0.00040)	(\$0.00039)	(\$0.00043)	(\$0.00043)
		Block 6	(\$0.00013)	(\$0.00013)	(\$0.00021)	(\$0.00021)

(continue to Sheet 100-5)

(K) RS 33 High Large Volume Non-Residential Firm Transportation and Interruptible Service transferred to sheet 100-5

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

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OCT 23 2020

**SCHEDULE 100  
SUMMARY OF TEMPORARY ADJUSTMENTS  
(continued)**

**TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2020**

(C)

**Rate Schedule 33: High Large Volume Non-Residential Firm Transportation and Interruptible Service**

(M)

		<b>Applicable</b>	<b>FIRM TRANSPORTATION All</b>
Schedule 173	Holding Company Formation Credits	All Therms	(\$0.00001)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	All Therms	(\$0.00007)
Schedule 183	Environmental Cost Recovery (SRRM)	All Therms	\$0.00008

(R)

(R)

		<b>Applicable</b>	<b>INTERRUPTIBLE TRANSPORTATION All</b>
Schedule 173	Holding Company Formation Credits	All Therms	(\$0.00001)
Schedule 178	Misc. Deferred Adjustments/Block 24 Sales	All Therms	(\$0.00007)
Schedule 183	Environmental Cost Recovery (SRRM)	All Therms	\$0.00008

(R)

(M) (R)

(M) Transferred from sheet 100-4.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on and  
after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
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Received  
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OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Ninth Revision of Sheet 164-1  
Cancels Eighth Revision of Sheet 164-1

**SCHEDULE 164  
PURCHASED GAS COST ADJUSTMENT TO RATES**

**PURPOSE:**

To identify the Commodity and Pipeline Capacity Components applicable to the Rate Schedules listed below.

**APPLICABLE:**

To the following Rate Schedules of this Tariff:

Rate Schedule 2    Rate Schedule 3    Rate Schedule 27  
Rate Schedule 31    Rate Schedule 32

**APPLICATION TO RATE SCHEDULES:**

Effective: November 1, 2020    (C)

Annual Sales WACOG [1]	\$0.25644
Winter Sales WACOG [2]	\$0.27705
Firm Sales Service Pipeline Capacity Component [3]	\$0.10027
Firm Sales Service Pipeline Capacity Component [4]	\$1.48
Interruptible Sales Service Pipeline Capacity Component [5]	\$0.01193

(I)  
(R)  
|  
(R)

- [1] Applies to all Sales Service Rate Schedules (per therm) except where Winter Sales WACOG or Monthly Incremental Cost of Gas applies.
- [2] Applies to Sales Customers that request Winter Sales WACOG at the September 15 Annual Service Election.
- [3] Applies to Rate Schedules 2, 3, and Schedule 31 and Schedule 32 Firm Sales Service Volumetric Pipeline Capacity option (per therm).
- [4] Applies to Rate Schedules 31 and 32 Firm Sales Service Peak Demand Pipeline Capacity option (per therm of MDDV per month).
- [5] Applies to Rate Schedule 32 Interruptible Sales Service (per therm).

**GENERAL TERMS:**

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

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

Received  
Filing Center  
OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Third Revision of Sheet 167-1  
Cancels Second Sheet 167-1

**SCHEDULE 167  
GENERAL ADJUSTMENTS TO RATES**

**PURPOSE:**

To identify adjustments made to the billing rates stated in the Rate Schedules listed below to reflect the effects of general rate changes approved by the Commission under the authority of ORS 757.210

**DESCRIPTION:**

The general rate changes shown in this Schedule 167 reflect the outcome of a Commission investigation in Docket UG 388 initiated following a Company request to change rates due to increases or decreases in the cost of general utility operations.

**APPLICABLE:**

To Customers taking service under the following Rate Schedules of this Tariff:

Rate Schedule 2	Rate Schedule 27	Rate Schedule 32
Rate Schedule 3	Rate Schedule 31	Rate Schedule 33

**RATE ADJUSTMENTS:** Effective: November 1, 2020

The Base Rates stated in the listed Rate Schedules were adjusted as follows:

(C)

Schedule	Adjustment Amount		Schedule	Adjustment Amount	
	Customer Charge	Volumetric Charge		Customer Charge	Volumetric Charge
02R	\$0.00	\$0.08760	03 CSF	\$0.00	\$0.08234
27	\$2.00	\$0.02573	03 ISF	\$0.00	\$0.02315

(C)

(C)

Schedule	Block	Amount	Schedule	Block	Amount	Schedule	Block	Amount
31 CSF	Cust. Charge	\$0.00	32 ISF	Cust. Charge	\$0.00	32 CSI	Cust. Charge	\$0.00
	Block 1	\$0.02174		Block 1	\$0.01088		Block 1	\$0.00847
	Block 2	\$0.01984		Block 2	\$0.00919		Block 2	\$0.00715
31CTF	Cust. Charge	\$0.00		Block 3	\$0.00635		Block 3	\$0.00495
	Block 1	\$0.02091		Block 4	\$0.00355		Block 4	\$0.00275
	Block 2	\$0.01910		Block 5	\$0.00156		Block 5	\$0.00143
31ISF	Cust. Charge	\$0.00	32 CTF	Block 6	\$0.00058	32 ISI	Block 6	\$0.00045
	Block 1	\$0.01527		Cust. Charge	\$0.00		Cust. Charge	\$0.00
	Block 2	\$0.01378		Block 1	\$0.01095		Block 1	\$0.00831
31 ITF	Cust. Charge	\$0.00		Block 2	\$0.00930		Block 2	\$0.00701
	Block 1	\$0.01562		Block 3	\$0.00657		Block 3	\$0.00486
	Block 2	\$0.01412		Block 4	\$0.00383		Block 4	\$0.00270
32 CSF	Cust. Charge	\$0.00		Block 5	\$0.00218		Block 5	\$0.00140
	Block 1	\$0.01496		Block 6	\$0.00111		Block 6	\$0.00045
	Block 2	\$0.01263		32 ITF	Cust. Charge		\$0.00	32 CTI/ITI
	Block 3	\$0.00877		Block 1	\$0.00939		Block 1	\$0.00760
	Block 4	\$0.00487		Block 2	\$0.00799		Block 2	\$0.00646
	Block 5	\$0.00208		Block 3	\$0.00563		Block 3	\$0.00456
	Block 6	\$0.00075		Block 4	\$0.00329		Block 4	\$0.00266
				Block 5	\$0.00188		Block 5	\$0.00152
				Block 6	\$0.00095		Block 6	\$0.00077
				33	All		\$0.00000	

(C)

(C)

**GENERAL TERMS:**

Service under this Rate Schedule is governed by the terms of this Rate Schedule, the General Rules and Regulations 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.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

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OCT 23 2020



**SCHEDULE 177  
ADJUSTMENT FOR OREGON CORPORATE ACTIVITY TAX**

(N)

**PURPOSE:**

This Schedule recovers the costs related to the Oregon Corporate Activity Tax (CAT) from Customers on the Rate Schedules listed below consistent with the Comprehensive Stipulation adopted by Commission Order No. 20-364 in docket UG 388 entered on October 16, 2020.

**DESCRIPTION:**

The rate adjustments reflected in this Schedule establish the method by which NW Natural will recover the Oregon CAT through the Company's annual Purchased Gas Adjustment (PGA) filings, and will amortize related deferred amounts for the 2020 tax year and prospective changes in the calculation methodology of the CAT.

In compliance with Order No. 20-364: 1) NW Natural will include an updated CAT component, allocated on an equal percent of revenues basis, through this Schedule 177 in its annual PGA filings to reflect changes in gross revenue and cost of goods sold that occur as a result of the PGA; 2) CAT deferred from January 2020 through June 2020 will be amortized through this Schedule over one year beginning November 1, 2020, and additional CAT deferred from July 2020 through October 31, 2020 will be amortized through this Schedule over one year beginning November 1, 2021; 3) If the calculation methodology used by the Company for annual Oregon State tax compliance filing purposes differs in a fundamental way from the form of the calculation established in docket UG 388 as a result of a prospective change in the underlying CAT legislation, a CAT rulemaking by the Oregon Department of Revenue (ODOR), a judicial proceeding, or an ODOR policy decision, NW Natural will defer a surcharge or credit to reflect the difference in calculation methodology and amortize the surcharge or credit through this Schedule 177 at the time of NW Natural's next annual PGA.

**APPLICABLE:**

To all Customers taking service under the following Rate Schedules of this Tariff of which this Schedule 177 is a part:

Rate Schedule 2	Rate Schedule 31
Rate Schedule 3	Rate Schedule 32
Rate Schedule 27	Rate Schedule 33

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

**APPLICATION TO RATE SCHEDULES:**

The adjustment amount shown below is included in the Temporary Adjustments reflected in the above-listed Rate Schedules. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

(continue to Sheet 177-2)

(N)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
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Received  
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OCT 23 2020



**SCHEDULE 177**  
**ADJUSTMENT FOR OREGON CORPORATE ACTIVITY TAX**  
(continued)

(N)

**APPLICATION TO RATE SCHEDULES (continued):**                      Effective: November 1, 2020

The adjustments applicable to each Rate Schedule is shown in the table below:

Schedule	Block	CAT Deferral	CAT Incremental	Total Adjustment	Schedule	Block	CAT Deferral	CAT Incremental	Total Adjustment
2		\$0.00297	(\$0.00006)	\$0.00291	32 ITF	Block 1	\$0.00084	(\$0.00002)	\$0.00082
3 CSF		\$0.00243	(\$0.00005)	\$0.00238		Block 2	\$0.00071	(\$0.00001)	\$0.00070
3 ISF		\$0.00206	(\$0.00004)	\$0.00202		Block 3	\$0.00050	(\$0.00001)	\$0.00049
27		\$0.00255	(\$0.00005)	\$0.00250		Block 4	\$0.00029	(\$0.00001)	\$0.00028
31 CSF	Block 1	\$0.00194	(\$0.00004)	\$0.00190		Block 5	\$0.00017	\$0.00000	\$0.00017
	Block 2	\$0.00177	(\$0.00003)	\$0.00174		Block 6	\$0.00008	\$0.00000	\$0.00008
31 CTF	Block 1	\$0.00186	(\$0.00004)	\$0.00182	32 CSI	Block 1	\$0.00075	(\$0.00001)	\$0.00074
	Block 2	\$0.00170	(\$0.00003)	\$0.00167		Block 2	\$0.00064	(\$0.00001)	\$0.00063
31 ISF	Block 1	\$0.00136	(\$0.00003)	\$0.00133		Block 3	\$0.00044	(\$0.00001)	\$0.00043
	Block 2	\$0.00123	(\$0.00002)	\$0.00121		Block 4	\$0.00024	\$0.00000	\$0.00024
31 ITF	Block 1	\$0.00139	(\$0.00003)	\$0.00136		Block 5	\$0.00013	\$0.00000	\$0.00013
	Block 2	\$0.00126	(\$0.00002)	\$0.00124		Block 6	\$0.00004	\$0.00000	\$0.00004
32 CSF	Block 1	\$0.00133	(\$0.00003)	\$0.00130	32 ISI	Block 1	\$0.00074	(\$0.00001)	\$0.00073
	Block 2	\$0.00112	(\$0.00002)	\$0.00110		Block 2	\$0.00062	(\$0.00001)	\$0.00061
	Block 3	\$0.00078	(\$0.00002)	\$0.00076		Block 3	\$0.00043	(\$0.00001)	\$0.00042
	Block 4	\$0.00043	(\$0.00001)	\$0.00042		Block 4	\$0.00024	\$0.00000	\$0.00024
	Block 5	\$0.00019	\$0.00000	\$0.00019		Block 5	\$0.00012	\$0.00000	\$0.00012
	Block 6	\$0.00007	\$0.00000	\$0.00007		Block 6	\$0.00004	\$0.00000	\$0.00004
32 ISF	Block 1	\$0.00097	(\$0.00002)	\$0.00095	32 CTI	Block 1	\$0.00068	(\$0.00001)	\$0.00067
	Block 2	\$0.00082	(\$0.00002)	\$0.00080		Block 2	\$0.00058	(\$0.00001)	\$0.00057
	Block 3	\$0.00057	(\$0.00001)	\$0.00056		Block 3	\$0.00041	(\$0.00001)	\$0.00040
	Block 4	\$0.00031	(\$0.00001)	\$0.00030		Block 4	\$0.00024	\$0.00000	\$0.00024
	Block 5	\$0.00014	\$0.00000	\$0.00014		Block 5	\$0.00014	\$0.00000	\$0.00014
	Block 6	\$0.00005	\$0.00000	\$0.00005		Block 6	\$0.00007	\$0.00000	\$0.00007
32 CTF	Block 1	\$0.00097	(\$0.00002)	\$0.00095	32 ITI	Block 1	\$0.00068	(\$0.00001)	\$0.00067
	Block 2	\$0.00083	(\$0.00002)	\$0.00081		Block 2	\$0.00058	(\$0.00001)	\$0.00057
	Block 3	\$0.00058	(\$0.00001)	\$0.00057		Block 3	\$0.00041	(\$0.00001)	\$0.00040
	Block 4	\$0.00034	(\$0.00001)	\$0.00033		Block 4	\$0.00024	\$0.00000	\$0.00024
	Block 5	\$0.00019	\$0.00000	\$0.00019		Block 5	\$0.00014	\$0.00000	\$0.00014
	Block 6	\$0.00010	\$0.00000	\$0.00010		Block 6	\$0.00007	\$0.00000	\$0.00007
					33 (all)		\$0.00000	\$0.00000	\$0.00000

(N)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY*  
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Received  
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OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Fourth Revision of Sheet 180-1  
Cancels Third Revision of Sheet 180-1

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**SCHEDULE 180  
RATE ADJUSTMENT FOR TRUE-UP OF EXCESS DEFERRED INCOME  
TAXES RELATED TO THE 2017 FEDERAL TAX CUTS AND JOBS ACT**

(N)

**PURPOSE:**

To amortize a credit related to an Excess Deferred Income Taxes (EDIT) True-Up to Customers on the Rate Schedules listed below consistent with the Comprehensive Stipulation adopted by Commission Order No. 20-364 in docket UG 388 entered on October 16, 2020. The credit has two components, one attributed to unprotected and protected EDIT and the other to non-plant gas reserves.

**APPLICABLE:**

To all Customers taking service under the following Rate Schedules of this Tariff of which this Schedule 180 is a part:

Rate Schedule 2	Rate Schedule 31
Rate Schedule 3	Rate Schedule 32
Rate Schedule 27	Rate Schedule 33

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

**APPLICATION TO RATE SCHEDULES:**

The adjustment amount shown below is included in the Temporary Adjustments reflected in the above-listed Rate Schedules. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

(N)

(continue to Sheet 180-2)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

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Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

Received  
Filing Center  
OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Second Revision of Sheet 180-2  
Cancels First Revision of Sheet 180-2

**SCHEDULE 180**  
**RATE ADJUSTMENT FOR TRUE-UP OF EXCESS DEFERRED INCOME TAXES**  
**RELATED TO THE 2017 FEDERAL TAX CUTS AND JOBS ACT**  
(continued)

(N)

**APPLICATION TO RATE SCHEDULES (continued):**

Effective: November 1, 2020

The adjustments applicable to each Rate Schedule is shown in the table below:

Schedule	Block	Gas Reserves EDIT Amortization Credit True-up	Plant EDIT Amortization Credit True-Up	Total Temporary Adjustment
2		(\$0.00050)	(\$0.00114)	(\$0.00164)
3 CSF		(\$0.00050)	(\$0.00080)	(\$0.00130)
3 ISF		(\$0.00050)	(\$0.00068)	(\$0.00118)
27		(\$0.00050)	(\$0.00098)	(\$0.00148)
31 CSF	Block 1	(\$0.00050)	(\$0.00064)	(\$0.00114)
	Block 2	(\$0.00050)	(\$0.00058)	(\$0.00108)
31 CTF	Block 1	\$0.00000	(\$0.00061)	(\$0.00061)
	Block 2	\$0.00000	(\$0.00056)	(\$0.00056)
31 ISF	Block 1	(\$0.00050)	(\$0.00045)	(\$0.00095)
	Block 2	(\$0.00050)	(\$0.00041)	(\$0.00091)
31 ITF	Block 1	\$0.00000	(\$0.00046)	(\$0.00046)
	Block 2	\$0.00000	(\$0.00042)	(\$0.00042)
32 CSF	Block 1	(\$0.00050)	(\$0.00044)	(\$0.00094)
	Block 2	(\$0.00050)	(\$0.00037)	(\$0.00087)
	Block 3	(\$0.00050)	(\$0.00026)	(\$0.00076)
	Block 4	(\$0.00050)	(\$0.00014)	(\$0.00064)
	Block 5	(\$0.00050)	(\$0.00006)	(\$0.00056)
	Block 6	(\$0.00050)	(\$0.00002)	(\$0.00052)
32 ISF	Block 1	(\$0.00050)	(\$0.00032)	(\$0.00082)
	Block 2	(\$0.00050)	(\$0.00027)	(\$0.00077)
	Block 3	(\$0.00050)	(\$0.00019)	(\$0.00069)
	Block 4	(\$0.00050)	(\$0.00010)	(\$0.00060)
	Block 5	(\$0.00050)	(\$0.00005)	(\$0.00055)
	Block 6	(\$0.00050)	(\$0.00002)	(\$0.00052)
32 CTF	Block 1	\$0.00000	(\$0.00032)	(\$0.00032)
	Block 2	\$0.00000	(\$0.00027)	(\$0.00027)
	Block 3	\$0.00000	(\$0.00019)	(\$0.00019)
	Block 4	\$0.00000	(\$0.00011)	(\$0.00011)
	Block 5	\$0.00000	(\$0.00006)	(\$0.00006)
	Block 6	\$0.00000	(\$0.00003)	(\$0.00003)

(N)

(continue to sheet 180-3)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY*  
*d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**SCHEDULE 180  
RATE ADJUSTMENT FOR TRUE-UP OF EXCESS DEFERRED INCOME TAXES  
RELATED TO THE 2017 FEDERAL TAX CUTS AND JOBS ACT  
(continued)**

(N)

**APPLICATION TO RATE SCHEDULES (continued):**

Effective: November 1, 2020

The adjustments applicable to each Rate Schedule is shown in the table below:

Schedule	Block	Gas Reserves EDIT Amortization Credit True-up	Plant EDIT Amortization Credit True-Up	Total Temporary Adjustment
32 ITF	Block 1	\$0.00000	(\$0.00028)	(\$0.00028)
	Block 2	\$0.00000	(\$0.00023)	(\$0.00023)
	Block 3	\$0.00000	(\$0.00017)	(\$0.00017)
	Block 4	\$0.00000	(\$0.00010)	(\$0.00010)
	Block 5	\$0.00000	(\$0.00006)	(\$0.00006)
	Block 6	\$0.00000	(\$0.00003)	(\$0.00003)
32 CSI	Block 1	(\$0.00050)	(\$0.00025)	(\$0.00075)
	Block 2	(\$0.00050)	(\$0.00021)	(\$0.00071)
	Block 3	(\$0.00050)	(\$0.00015)	(\$0.00065)
	Block 4	(\$0.00050)	(\$0.00008)	(\$0.00058)
	Block 5	(\$0.00050)	(\$0.00004)	(\$0.00054)
	Block 6	(\$0.00050)	(\$0.00001)	(\$0.00051)
32 ISI	Block 1	(\$0.00050)	(\$0.00024)	(\$0.00074)
	Block 2	(\$0.00050)	(\$0.00021)	(\$0.00071)
	Block 3	(\$0.00050)	(\$0.00014)	(\$0.00064)
	Block 4	(\$0.00050)	(\$0.00008)	(\$0.00058)
	Block 5	(\$0.00050)	(\$0.00004)	(\$0.00054)
	Block 6	(\$0.00050)	(\$0.00001)	(\$0.00051)
32 CTI	Block 1	\$0.00000	(\$0.00022)	(\$0.00022)
	Block 2	\$0.00000	(\$0.00019)	(\$0.00019)
	Block 3	\$0.00000	(\$0.00013)	(\$0.00013)
	Block 4	\$0.00000	(\$0.00008)	(\$0.00008)
	Block 5	\$0.00000	(\$0.00004)	(\$0.00004)
	Block 6	\$0.00000	(\$0.00002)	(\$0.00002)
32 ITI	Block 1	\$0.00000	(\$0.00022)	(\$0.00022)
	Block 2	\$0.00000	(\$0.00019)	(\$0.00019)
	Block 3	\$0.00000	(\$0.00013)	(\$0.00013)
	Block 4	\$0.00000	(\$0.00008)	(\$0.00008)
	Block 5	\$0.00000	(\$0.00004)	(\$0.00004)
	Block 6	\$0.00000	(\$0.00002)	(\$0.00002)
33 (all)		\$0.00000	\$0.00000	\$0.00000

(N)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**SCHEDULE 185  
SPECIAL ANNUAL INTERSTATE AND INTRASTATE  
STORAGE AND TRANSPORTATION CREDIT**

**PURPOSE:**

To credit customers served under the below-listed Rate Schedules for the Oregon share of revenues received by NW Natural for (a) interstate storage and related transportation service provided under a Limited-Jurisdiction Blanket Certificate from FERC granted under FERC Regulations, 18 C.F.R. § 284.224 (hereafter referred to as § 284.224 service), (b) core storage optimization activities; and (c) intrastate storage activities under **Rate Schedule 80** and **Rate Schedule 91**.

**APPLICABLE:**

The credit under this Schedule shall apply to customer bills issued during the February billing cycle of each calendar year, or such other time period as the Commission may approve. The credit shall apply to the following Sales Service Rate Schedules of this Tariff: **Schedule 2; Schedule 3, and; Schedules 31 and 32 – Firm Sales only.** (T)

**CREDIT:**      **Effective Billing Cycle: February 2021** (T)

The bill credit to be applied to Customer bills during the effective billing cycle will be calculated by multiplying the following per therm credit by the customer's actual gas usage billed during the period January 1, 2020 through October 31, 2020: (T)

Rate Schedule/Class	Block	Temporary Adjustments		Schedule	Block	Temporary Adjustmnet
2		(\$0.xxxxx)				
03 CSF		(\$0.xxxxx)				
03 ISF		(\$0.xxxxx)				
31 CSF	Block 1	(\$0.xxxxx)		31 ISF	Block 1	(\$0.xxxxx)
	Block 2	(\$0.xxxxx)			Block 2	(\$0.xxxxx)
32 CSF	Block 1	(\$0.xxxxx)		32 ISF	Block 1	(\$0.xxxxx)
	Block 2	(\$0.xxxxx)			Block 2	(\$0.xxxxx)
	Block 3	(\$0.xxxxx)			Block 3	(\$0.xxxxx)
	Block 4	(\$0.xxxxx)			Block 4	(\$0.xxxxx)
	Block 5	(\$0.xxxxx)			Block 5	(\$0.xxxxx)
	Block 6	(\$0.xxxxx)			Block 6	(\$0.xxxxx)

(continue to Sheet 185-2)

Issued date October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after date November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

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**SCHEDULE 185**  
**SPECIAL ANNUAL INTERSTATE AND INTRASTATE**  
**STORAGE AND TRANSPORTATION CREDIT**  
(continued)

**SPECIAL CONDITIONS:**

1. NW Natural will share with customers served under the Rate Schedules listed above, the net margin received from interstate and intrastate storage service on an 80/20 basis; 80% will be retained by NW Natural, and 20% will be shared with customers through the credit provided for in this schedule. For this purpose, net margin is defined as revenues less incremental operating and maintenance (O&M) expense, less incremental capital-related costs, on a before income tax basis. Incremental capital-related costs include depreciation, interest, property taxes, and any other costs customarily relating to a utility investment other than return on equity. The imputed capital structure for this purpose shall be 50% debt and 50% equity, with the cost of debt defined as the average long-term cost of debt authorized by the OPUC in the Company's last general rate case.
2. The interstate and intrastate annual service credit shall be based on the net margin as described in paragraph 1 above, and as filed with the Commission. This credit shall be applied to customers' bills, or placed in an interest bearing deferred account, on February 1 of each year, or at a date other than February 1 for reasons and on terms as the Commission may approve. (T)
3. If the net margin for the year is negative (a loss) then the credit will be zero.
4. In addition to the interstate and intrastate storage service sharing, NW Natural will share with customers served under the Rate Schedules listed above, net margin revenue that is attributable to optimization of core customer storage and related transportation services on a 90/10 basis; 10% will be retained by NW Natural, and 90% will be shared with customers through the credit provided for in this schedule. For this purpose, net margin is defined as revenues less incremental operating and maintenance (O&M) expense.
5. As provided under "OUT-OF-CYCLE TRANSFERS" provision set forth in Rate Schedules 31 and 32, a Customer that exercises the Capacity Release Option may only be eligible to receive one-half of the above-listed credit.

**PRIOR YEAR BALANCES:**

The Company will include any remaining balance from the prior year's credit in the calculation of the current year's credit.

**TERM OF SCHEDULE:**

Application of the § 284.224 service credit under this Schedule is contingent upon continued FERC approval of NW Natural's § 284.224 Limited Jurisdiction Blanket Certificate.

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

Issued date October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after date November 1, 2020

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*Issued by: NORTHWEST NATURAL GAS COMPANY*  
*d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Tenth Revision of Sheet 186-1  
Cancels Ninth Revision of Sheet 186-1

**SCHEDULE 186  
SPECIAL ANNUAL CORE PIPELINE CAPACITY  
OPTIMIZATION CREDIT**

**PURPOSE:**

To credit Sales Service Customers served under the below-listed Rate Schedules for the Oregon share of revenues received by NW Natural for the optimization of core customer Pipeline and Storage capacity.

**APPLICABLE:**

This credit shall apply to customer bills issued during the February billing cycle of each calendar year, or such other time period as the Commission may approve. The credit shall apply to the following Sales Service Rate Schedules of this Tariff: (T)

Rate Schedule 2	Rate Schedule 31 ISF	Rate Schedule 32 ISF
Rate Schedule 3	Rate Schedule 31 CSF	Rate Schedule 32 CSI
	Rate Schedule 32 CSF	Rate Schedule 32 ISI

**CREDIT:**      **Effective Billing Cycle: February 2021** (T)

The bill credit to be applied to Customer bills during the effective billing cycle will be calculated by multiplying the following per therm credit by the customer's actual gas usage billed during the period January 1, 2020 through October 31, 2020: (T)

(\$0.xxxxx)

**SPECIAL CONDITIONS:**

1. NW Natural will share with customers served under the Rate Schedules listed above, the amount of net margin revenue that is attributable to optimization of core customer Pipeline and Storage capacity on an 90/10 basis; 10% will be retained by NW Natural, and 90% will be shared with customers through the credit provided for in this Schedule. For this purpose, net margin is defined as revenues less incremental operating and maintenance (O&M) expense.
2. The annual credit shall be based on the net margin as described in paragraph 1 above, and as filed with the Commission. This credit shall be applied to customers' bills, or placed in an interest bearing deferred account, on February 1 of each year, or at a date other than February 1 for reasons and on terms as the Commission may approve. (T)
3. If the net margin for the year is negative (a loss) then the credit will be zero.
4. As provided under "OUT-OF-CYCLE TRANSFERS" provision set forth in Rate Schedules 31 and 32 a Customer that exercises the Capacity Release Option may only be eligible to receive one-half of the above-listed credit.

**PRIOR YEAR BALANCES:**

The Company will include any remaining balance from the prior year's credit in the calculation of the current year's credit.

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

Issued date October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after date November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

Received  
Filing Center  
OCT 23 2020



**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Tenth Revision of Sheet 190-1  
Cancels Ninth Revision of Sheet 190-1

**SCHEDULE 190  
PARTIAL DECOUPLING MECHANISM**

**PURPOSE:**

To (a) describe the partial decoupling mechanism established in accordance with Commission Order in Docket UG 221, Commission Order 18-419 in Docket UG 344, and Commission Order 20-364 in Docket UG 388; and (b) identify the adjustment applicable to rates under the Rate Schedules listed below. (C)  
(C)

**APPLICABLE:**

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

<b>Residential</b>	<b>Commercial</b>
Rate Schedule 2	Rate Schedule 3 CSF
	Rate Schedule 31 CSF

**ADJUSTMENT TO RATE SCHEDULES:**

**Effective: November 1, 2020** (C)

The Temporary Adjustments for Residential and Commercial Customers taking service on the above-listed Rate Schedules includes the following adjustment:

Residential Rate Schedules:	(\$0.02523)	(R)
Commercial Rate Schedules:	(\$0.00247)	(R)
Commercial Rate Schedule 3:	(\$0.01994)	(R)
Commercial Rate Schedule 31:	(\$0.00154)	(I)

**PARTIAL DECOUPLING DEFERRAL ACCOUNT:**

- As described in detail below, the Company will calculate the difference between weather-normalized usage and the calculated baseline usage for each Residential and Commercial Customer group. The resulting usage differential shall be multiplied by the per therm distribution margin for the applicable customer group. (T)

The Company shall defer and amortize, with interest, 100% of the distribution margin differential in a sub-account of Account 186. The deferral will be a credit (accruing a refund to customers) if the differential is positive, or a debit (accruing a recovery by the company) if the differential is negative.

(continue to Sheet 190-2)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**SCHEDULE 190  
PARTIAL DECOUPLING MECHANISM  
(continued)**

**PARTIAL DECOUPLING DEFERRAL ACCOUNT (continued):**

2. The baseline use-per-customer is:

Residential:	638.5	(C)
Commercial (Schedule 3):	2,900.7	(C)
Commercial (Schedule 31):	33,786.6	(C)

3. Weather-normalized usage is calculated using the approach to weather normalization adopted in the Company's last general rate case, Docket UG 388. The weather data is taken from the stations identified in **Rule 24**. (C)

Step One. For the heating season months of December through March, usage is normalized by taking the difference between normal and actual heating degree days for each district using a base of 59 degrees for Residential and 58 degrees for Commercial. Usage for the heating season months of November, April and May will be normalized by the actual WARM effect attributable to the month that is included in customer bills for rate schedules 2 and commercial 3. For commercial schedule 31, no normalization will be done in November, April and May. (C)

Step Two. This step derives the per-therm customer variance by multiplying the heating degree-day difference by the usage coefficient of .16318 for Residential variances, .67477 for Commercial (Schedule 3) variances, and 6.98693 for Commercial (Schedule 31) variances. (C)(C)  
(C)

Step Three. The per-therm customer variance is multiplied by the appropriate customer count, by district, with the sum of the district results representing the normalized therm amount.

4. Baseline usage will be adjusted to reflect actual customers billed each month.

5. The per therm distribution margins to be used in the deferral calculation effective November 1, 2020 is \$0.57799 per therm for Residential customers and \$0.46794 per therm for Commercial (Schedule 3) customers and \$0.24922 per therm for Commercial (Schedule 31) customers. (C)(I)(I)  
(I)

6. Coincident with the Company's annual Purchased Gas Cost and Technical Rate Adjustment filing, the Company shall apply an adjustment to Residential and Commercial rates to amortize over the following 12 months, the balance in the balancing account as of June 30.

7. This Schedule is an "automatic adjustment clause" as defined in ORS 757.210, and is subject to review by the Commission at least once every two (2) years.

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Sixth Revision of Sheet 195-1  
Cancels Fifth 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, 2020 are: (C)

Rate Schedule 2:	\$	0.00168
Rate Schedule 3:	\$	0.00441

(I)  
(I)

(continue to Sheet 195-2)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

Issued by: **NORTHWEST NATURAL GAS COMPANY**  
d.b.a. NW Natural

Received  
Filing Center  
OCT 23 2020

**SCHEDULE 195  
WEATHER ADJUSTED RATE MECHANISM  
(WARM Program)  
(continued)**

9. Upon request, the Company will provide Customer with historical billing information that reflects bills with and without the WARM adjustment for any month during the WARM Period.
10. Should a change to the margin rate occur during the WARM Period, the equivalent therms used in the calculation of the WARM adjustment will be based on the entire billing period, and then prorated based upon the number of days applicable to each margin rate. The pro-rated therms are then multiplied by the applicable margin rate to determine the WARM adjustment for each rate period. Example: If a margin rate change occurred on January 1, a bill with a bill period between December 25 and January 24 would be prorated based upon 6 days at the prior margin rate and 24 days at the new margin rate. The calculations performed under the provisions of Special Conditions 2 and 3 will apply to each prorated period separately, except that the total WARM adjustment for each bill will not exceed the maximum (increase or decrease) WARM adjustment specified in Special Conditions 2 and 3.

**WARM FORMULA:**

1. The Formula is: 
$$\text{WARM Adjustment} = \sum_1^T (HDD_{n,t} - HDD_{a,t}) * B * Mrgn$$

Where:

T = the days covered by the meter read dates for an individual customer's bill

**HDDn** = the 25 year average of heating degree-days for each day determined using a 25-year average temperature published by the National Oceanic and Atmospheric Administration (NOAA) as adopted for use with the Company's most recent general rate proceeding.

**HDDa** = the actual heating degree-days for each day based on the individual customer's actual beginning and ending meter read dates

**B** = the statistical coefficient relating heating degree-days to therm use determined in the most recent general rate case, or other Commission authorized proceeding.

**Mrgn** = the relevant Rate Schedule margin defined as the current Billing Rate less the current Commodity Rate, Pipeline Capacity Charge, and any Temporary Adjustments.

2. For purposes of calculating the WARM Adjustment, the following shall apply:
  - a. A Heating Degree Day (HDD) is defined as the extent by which the daily mean temperature falls below a specified set point on a specified day. The HDD calculation uses a set point temperature of 59 degrees Fahrenheit for the **Rate Schedule 2** calculation, and 58 degrees Fahrenheit for the **Rate Schedule 3** calculation;
  - b. The statistical coefficients to be used in the calculation of the WARM Adjustment Factor effective with the WARM Period commencing November 1, 2020 are: (C)

Rate Schedule 2:	0.16318	Rate Schedule 3:	0.67477
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(R)(R)

(continue to Sheet 195-4)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Sixth Revision of Sheet 195-4  
Cancels Fifth Revision of Sheet 195-4

**SCHEDULE 195  
WEATHER ADJUSTED RATE MECHANISM  
(WARM Program)  
(continued)**

**WARM FORMULA: (continued)**

- c. The applicable margins to be used in the calculation of the WARM Adjustment Factor effective with the WARM Period commencing November 1, 2020 and billed on and after April 1, 2021 are: (C)  
(C)

Rate Schedule 2:	\$0.57799	Rate Schedule 3:	\$0.46794
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(I)(I)

Weather data used in the calculation of HDD for each customer shall be from the same weather stations and weather zones that are used in the determination of thermal units as set forth in **Rule 24**.

**WARM BILL EFFECTS:**

The following table depicts the impact on Residential **Rate Schedule 2** and Commercial **Rate Schedule 3** customer bills, respectively, at specified variations in HDDs.

HDD Variance (+ or -)	RESIDENTIAL		COMMERCIAL	
	Equivalent therms	Total Monthly WARM adjustment (+ or -)	Equivalent therms	Total Monthly WARM adjustment (+ or -)
1	0.1632	\$0.09	0.6748	\$0.32
5	0.8159	\$0.47	3.3739	\$1.58
10	1.6318	\$0.94	6.7477	\$3.16
15	2.4477	\$1.41	10.1216	\$4.74
20	3.2636	\$1.89	13.4954	\$6.32
25	4.0795	\$2.36	16.8693	\$7.89
30	4.8954	\$2.83	20.2431	\$9.47
35	5.7113	\$3.30	23.617	\$11.05
40	6.5272	\$3.77	26.9908	\$12.63
45	7.3431	\$4.24	30.3647	\$14.21
50	8.159	\$4.72	33.7385	\$15.79

(C)

(C)

To calculate variations beyond or in-between specified levels, multiply the desired HDD variance by the applicable statistical coefficient, and then multiply that sum by the applicable margin.

To obtain the cent per therm effect of the Warm Adjustment, divide the WARM Adjustment by the number of therms used during the billing month.

(continue to Sheet 195-5)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

*Issued by: NORTHWEST NATURAL GAS COMPANY  
d.b.a. NW Natural*

Received  
Filing Center  
OCT 23 2020

**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

Ninth Revision of Sheet 195-5  
Cancels Eighth Revision of Sheet 195-5

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**SCHEDULE 195**  
**WEATHER ADJUSTED RATE MECHANISM**  
**(WARM Program)**  
(continued)

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**WARM BILL EFFECTS (continued):****Example Bill Calculation:**

Here is the how the WARM adjustment is calculated for a residential **Rate Schedule 2** customer where the billing rate is \$0.90732 cents per therm, the HDD variance is 50 HDDs colder than normal, and the monthly therm usage is 129 therms: (I)

HDD Differential:	Normal HDDs:	600 HDDs	
	Actual HDDs:	650 HDDs	
	HDD variance:	600 – 650 = -50 HDDs	
Equivalent Therms:	HDD variance:	-50 HDDs	(C)
	Statistical coefficient:	0.16318	(C)
	Equivalent therms:	-50 x 0.16318 = -8.1590 therms	(C)
Total Warm Adjustment:	Equivalent therms:	-8.1590 therms	(C)
	Margin Rate:	\$0.57799	(I)
	Total WARM Adj.:	-8.1590 x \$0.57799 = (\$4.71582)	(R)
Total WARM Adjustment converted to cents per therm:	Total WARM Adj.	(\$4.71582)	(R)
	Monthly usage:	129 therms	
	Cent/therm Adj.:	(\$4.71582) / 129 = (\$0.03656)	(R)
Billing Rate per therm:	Current Rate/therm:	\$0.90732	(I)
	WARM cent/therm Adj.	(\$0.03656)	(R)
	WARM Billing Rate:	\$0.90732 + (\$0.03656) = \$0.87076	(I)
Total WARM Bill:	Customer Charge:	\$8.00	
	Usage Charge:	\$0.87076	(I)
	Total	(129 x \$0.87076) + \$8.00 = \$120.33	(I)

**GENERAL TERMS:**

This Schedule is governed by the terms of this Schedule, the General Rules and Regulations 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.

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

Effective with service on  
and after November 1, 2020

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*Issued by: NORTHWEST NATURAL GAS COMPANY*  
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**SCHEDULE 196  
ADJUSTMENT FOR CERTAIN EXCESS DEFERRED INCOME TAXES  
RELATED TO THE 2017 FEDERAL TAX CUTS AND JOBS ACT**

**PURPOSE:**

To amortize deferred amounts to Customers on the Rate Schedules listed below pursuant to the Third Stipulation adopted by Commission Order No. 19-105 in docket UG 344 entered on March 25, 2019, and Order No. 20-364 in docket UG 388 entered on October 16, 2020. (T)  
(C)

**DESCRIPTION:**

The rate adjustments reflected in this Schedule will amortize deferred amounts to Customers reflecting the net benefit of the excess deferred income taxes (EDIT) associated with: 1) Non-Plant Gas Reserves; and 2) Plant, that result from the 2017 federal Tax Cuts and Jobs Act (TCJA).

**1) Non-Plant Gas Reserves**

The adjustment to Customer rates for the amortization of the portion of EDIT associated with Non-Plant Gas Reserves will occur over three years. The total amount to be amortized is a credit of \$7.92 million, or \$2.6 million per year, prior to full revenue gross up. (C)  
(C)

This rate adjustment shall be effective for a 3-year period commencing November 1, 2020, with the last adjustments to become effective November 1, 2022 ending March 31, 2023, or such other date the Commission may approve. (C)  
(C)

**Applicable:**

To all Customers taking service under the following Rate Schedules of this Tariff of which this Schedule 196 is a part:

Rate Schedule 2	Rate Schedule 31	
Rate Schedule 3	Rate Schedule 32	
Rate Schedule 27	Rate Schedule 33	(C)

**2) Plant**

The adjustment to Customer rates for the amortization of the portion of EDIT associated with Plant will occur until such time as the balance is fully amortized or the amortization schedule is otherwise changed in the Company's next general rate case with Commission approval. The total amount to be amortized is a credit of \$125.1 million, which will be amortized at \$3.0 million per year, prior to full revenue gross up. (C)  
(C)

This rate adjustment shall be effective commencing November 1, 2020. (C)

**Applicable:**

To all Customers taking service under the following Rate Schedules of this Tariff of which this Schedule 196 is a part:

Rate Schedule 2	Rate Schedule 31
Rate Schedule 3	Rate Schedule 32
Rate Schedule 27	Rate Schedule 33

(continue to Sheet 196-2)

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**NORTHWEST NATURAL GAS COMPANY**

P.U.C. Or. 25

First Revision of Sheet 196-2  
Cancels Original Sheet 196-2

**SCHEDULE 196**  
**ADJUSTMENT FOR CERTAIN EXCESS DEFERRED INCOME TAXES**  
**RELATED TO THE 2017 FEDERAL TAX CUTS AND JOBS ACT**  
(continued)

**RATE ADJUSTMENTS:**

**Effective: November 1, 2020**

(C)

The effect of this adjustment is included in the Base Adjustment reflected in the respective Rate Schedules. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

The volumetric adjustment applicable to each Rate Schedule is shown in the table below:

Non-Plant Gas Reserves:

Schedule	Block	Temporary Adjustment (per therm)	Schedule	Block	Temporary Adjustment (per therm)
2		(\$0.00516)	32 ITF	Block 1	(\$0.00263)
3 CSF		(\$0.00516)		Block 2	(\$0.00224)
3 ISF		(\$0.00648)		Block 3	(\$0.00158)
27		(\$0.00516)		Block 4	(\$0.00092)
31 CSF	Block 1	(\$0.00609)		Block 5	(\$0.00053)
	Block 2	(\$0.00556)		Block 6	(\$0.00026)
31 CTF	Block 1	(\$0.00585)	32 CSI	Block 1	(\$0.00237)
	Block 2	(\$0.00535)		Block 2	(\$0.00200)
31 ISF	Block 1	(\$0.00428)		Block 3	(\$0.00139)
	Block 2	(\$0.00386)		Block 4	(\$0.00077)
31 ITF	Block 1	(\$0.00437)		Block 5	(\$0.00040)
	Block 2	(\$0.00395)		Block 6	(\$0.00013)
32 CSF	Block 1	(\$0.00419)	32 ISI	Block 1	(\$0.00233)
	Block 2	(\$0.00354)		Block 2	(\$0.00196)
	Block 3	(\$0.00245)		Block 3	(\$0.00136)
	Block 4	(\$0.00136)		Block 4	(\$0.00075)
	Block 5	(\$0.00058)		Block 5	(\$0.00039)
	Block 6	(\$0.00021)		Block 6	(\$0.00013)
32 ISF	Block 1	(\$0.00305)	32 CTI	Block 1	(\$0.00213)
	Block 2	(\$0.00257)		Block 2	(\$0.00181)
	Block 3	(\$0.00178)		Block 3	(\$0.00128)
	Block 4	(\$0.00099)		Block 4	(\$0.00075)
	Block 5	(\$0.00044)		Block 5	(\$0.00043)
	Block 6	(\$0.00016)		Block 6	(\$0.00021)
32 CTF	Block 1	(\$0.00306)	32 ITI	Block 1	(\$0.00213)
	Block 2	(\$0.00260)		Block 2	(\$0.00181)
	Block 3	(\$0.00184)		Block 3	(\$0.00128)
	Block 4	(\$0.00107)		Block 4	(\$0.00075)
	Block 5	(\$0.00061)		Block 5	(\$0.00043)
	Block 6	(\$0.00031)		Block 6	(\$0.00021)
			33		\$0.00000

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(continue to Sheet 196-3)

Issued October 23, 2020  
NWN OPUC Advice No. 20-17

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