



Oregon

Kate Brown, Governor

Public Utility Commission

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October 31, 2022



BY EMAIL

Northwest Natural Gas Company

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RE: Advice No. 22-18 and 22-18A

The tariff sheets in your October 26, and October 31, 2022, compliance filings docketed in UG 435, are accepted in compliance with Order No. 22-388. 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

503-689-3622

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Tenth Revision of Sheet v
Cancels Ninth Revision of Sheet v

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(K)

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(N)

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Original Sheet vi

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(N)

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(M)

(M) Public Purposes Schedules and Other Programs transferred from Sheet v.

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First Revision of Sheet RR-2.2
Cancels Original Sheet RR-2.2

GENERAL RULES AND REGULATIONS

(continued)

Rule 2. Service Application, Establishment and Re-establishment of Credit (continued).

ESTABLISHMENT OF CREDIT (continued)

If an Applicant has other active or inactive gas service accounts with the Company for the same class of service, then the account history of all such accounts may be considered in the establishment of credit for any new application. If the estimated monthly bill for service under any new Non-Residential Applicant is higher by 50% or more than the average monthly bill of the Applicant's other accounts for the same class of service, then a deposit may be required, irrespective of the credit standing on such Applicant's other gas service accounts.

In the event that there are multiple active accounts but no single account has been active for a consecutive 12-month period, then the requirement for 12-months of continuous service may be met by combining the non-duplicative active months across all accounts (i.e. account #1 was active January-May; Account #2 was active April through December). If the consecutive 12-month period cannot be met (i.e. the accounts were all activated less than 12 months and for the same calendar months), then a deposit may be required.

If the principals of a corporation, partnership or other Non-Residential enterprise are substantially the same as those of another corporation, partnership or Non-Residential enterprise that either is or has at one time received Natural Gas service from the Company, then they will be deemed to be the same corporation, partnership or Non-Residential enterprise for the purposes of establishing or re-establishing credit standing under this **Rule 2**.

In order to be considered substantially the same as those of another corporation, partnership or Non-Residential enterprise, seventy-five percent (75%) of the business ownership must be the same. Where there are only two principals, both principals must be the same in order to be considered substantially the same corporation, partnership, or Non-Residential enterprise.

For purposes of establishing credit, a builder, contractor, property developer, or property manager shall be considered a Non-Residential Applicant on any application made for gas service to real property for which they are responsible through their business activities, whether the property to which the application for service applies is classified as Residential or Non-Residential.

A Residential Customer that is required to pay a deposit, or that provides a surety agreement in lieu of a deposit, will be deemed to have established credit when they have maintained an active account with the Company for one Year, and during such Year: (a) Customer did not receive more than two final notices of disconnection (also known as a 5-day notice), and (b) Customer was not disconnected for non-payment, theft, diversion of service, or for tampering with utility facilities. If there are multiple active accounts for the same Customer, all such accounts must meet the above requirements.

(C)

(continue to Sheet RR-2.3)

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First Revision of Sheet RR-2.3
Cancels Original Sheet RR-2.3

GENERAL RULES AND REGULATIONS

(continued)

Rule 2. Service Application, Establishment and Re-establishment of Credit (continued).

ESTABLISHMENT OF CREDIT (continued)

A Non-Residential Applicant or Customer that is required to pay a deposit will be deemed to have established or re-established credit when they have maintained an active account with the Company for one Year and during such Year: (a) Customer did not receive more than two final notices of disconnection (also known as a 5-day notice), and (b) Customer was not disconnected for non-payment, theft, diversion of service, or for tampering with utility facilities. If there are multiple active accounts for the same Customer, all such accounts must meet the above requirements.

Residential Service

An Applicant who received Residential gas service from the Company within the prior 24- months, whether such account(s) is currently active or inactive, will be deemed to have established credit if all of the below listed conditions are met for all current and prior accounts.

- a. During the prior 24-months, known Applicant or Customer did not have service disconnected for non-payment, for theft or diversion of service, or for tampering with utility facilities; and (D)
(T)(C)
- b. Applicant does not owe an account balance to the Company that was not paid in full when service was terminated. (T)

If one or more of the above conditions cannot be met, the Applicant must pay a deposit. In the alternative, an Applicant may secure the account by providing the Company a written surety agreement. See the conditions set forth in **Rule 6A**.

A Low-Income Residential Customer, as defined in OAR 860-021-0180, will not be charged a deposit. (N)

(D)

(continue to Sheet 2-4)

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First Revision of Sheet RR-2.4
Cancels Original Sheet RR-2.4

GENERAL RULES AND REGULATIONS

(continued)

Rule 2. Service Application, Establishment and Re-establishment of Credit (continued).

Non-Residential Service

A Non-Residential Applicant, or a Customer that is required to re-establish credit, must meet all of the following conditions:

- a. Applicant is licensed to do business in the state of Oregon and has kept current over the past twelve (12) consecutive months on all real estate mortgages or lease agreements, commercial loans, utility bills and trade accounts; and
- b. Applicant has not been involved in a solvency proceeding, including but not limited to bankruptcy, receivership, liquidation, bulk sale, or financial reorganization, naming the Applicant or any principals of the corporation, partnership, or Non-Residential entity as a debtor party to the filing at any time during the prior thirty-six (36) consecutive months; and
- c. Applicant received twelve (12) consecutive months of service with the Company or another energy utility immediately prior to the date of application and:
 - i. Received no more than two final disconnection notices during such 12-month period; and
 - ii. Did not have service disconnected for non-payment, theft, diversion of service, or for tampering with utility facilities during such 12-month period; and
 - iii. Does not owe a past due amount.

If any one of the above conditions cannot be met, the Non-Residential Applicant or Customer must pay a deposit, and the Company may require the Applicant to provide other security, as set forth in **Rule 6B**.

The Company may also require additional credit or financial information deemed necessary in its judgment to determine credit worthiness. Customer will have five (5) Business Days from the date of the Company's request to provide the Company with such information.

Re-establishment of Credit – Non-Residential Service

Any Non-Residential Customer may be required to re-establish credit under this **Rule 2** when the conditions of service or the basis upon which credit was originally established has changed, including:

- (a) A change in the type of business in use at the service address;
- (b) A business name change;
- (c) A change in responsible party(ies);
- (d) A change in ownership;
- (e) The expiration or termination of Customer's Oregon business license;
- (f) Customer was found to have established credit standing based on false or incomplete information;

(continue to Sheet RR-2.5)

(M) Transferred from Sheet RR-2.5

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NORTHWEST NATURAL GAS COMPANY

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First Revision of Sheet RR-2.5
Cancels Original Sheet RR-2.5

GENERAL RULES AND REGULATIONS

(continued)

Rule 2. Service Application, Establishment and Re-establishment of Credit (continued).

Re-establishment of Credit – Non-Residential Service (continued)

- (g) Customer has been approved by the Company to select a different Service Type that results in an expected change to the average monthly bill for such Customer of 50% or more; or
- (h) Other circumstances which the Company can be reasonably certain may result in Customer's inability to regularly and timely pay for services rendered by the Company or that otherwise may have the potential to adversely affect rates for other ratepayers of the Company.

When a Non-Residential Customer is required to re-establish credit, the Customer must then meet all of the conditions set forth in this **Rule 2** based on the most recent 12 months of service with the Company. If any one of these conditions cannot be met, Customer may be required to pay a deposit, pay an additional deposit, and/or provide other security as set forth in **Rule 6B**. The Company may also require additional credit or financial information deemed necessary by the Company to determine credit worthiness. Customer will have five (5) Business Days from the date of the Company's request to provide the Company with such information.

(K)

(M)

(M)

(D)

(K) Non-Residential Service and Re-establishment of Credit – Non-Residential Service transferred to Sheet RR-2.4
(M) Transferred from Sheet RR-2.6; Sheet RR-2.6 is cancelled with Advice No. 22-18.

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First Revision of Sheet RR-2.6
Cancels Original Sheet RR-2.6

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(T)

(K)

(T)

This Sheet CANCELLED with Advice No. 22-18

(K) Re-establishment of Credit – Non-Residential Service (continued) transferred to Sheet RR-2.5.

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Second Revision of Sheet RR-6
Cancels First Revision of Sheet RR-6

GENERAL RULES AND REGULATIONS

(continued)

Rule 6. Deposits and other Security: General.

The Company may require a deposit or other security from a Customer or known Applicant for reasons set forth in **Rule 2** and for other reasons as set forth in this **Rule 6, Rule 6A, Rule 6B, or Rule 6C**. A low-income Residential Customer, as defined in OAR 860-021-0180, will not be charged a deposit. The requirements for a Residential Customer or known Applicant are set forth in **Rule 6A**. The requirements for a Non-Residential Customer or Applicant are set forth in **Rule 6B** and **Rule 6C**. For builders, contractors, property developers, and property managers, when a deposit or other security is required the provisions applicable to Non-Residential service shall apply. (C)
(N)
(N)
(C)

Where a deposit or deposit installment amount is billed and due and payable along with a Customer's bill for regular monthly gas usage, the amount paid by Customer shall first be applied toward payment of the amount due for the deposit, as set forth in **Rule 7**. (D)

In the event a Customer pays a deposit or additional deposit amount, with a check or draft for payment that is returned or not honored by the respective financial institution, the Company may disconnect service for nonpayment of the deposit as set forth in **Rule 11**.

In the event a Customer concurrently terminates service at a current address and applies for service at a new address within the Company's service area, any deposit held by the Company for service at the current service address, plus accrued interest, will be applied to the new service address. Nothing precludes the Company from requiring an additional deposit under the terms set forth in **Rule 6A, Rule 6B, or Rule 6C**. If such Customer notified the Company of the change of address subsequent to the issuance of the closing bill for service at the terminated service address, then the Customer may be required to pay a new deposit as required by these rules.

Deposits will accrue interest at a rate prescribed by order of the Commission. Interest shall be computed from the date the deposit is paid (if paid in installments, from the date of the first payment) to the date of refund or application of the entire deposit amount to the Customer's account, or if applicable, to the end of any one Year period. Interest will be prorated on deposits held by the Company for less than a full Year.

The Company will review default deposit amounts with any change in billing rates. The default deposit amounts may be revised if a change in customer rates results in an increase or decrease of \$10.00 or more to the average Residential Customer's monthly bill, or \$25.00 or more to the average Schedule 3 small Commercial Customer's monthly bill.

(continue to Sheet RR-6.1)

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Second Revision of Sheet RR-6.1
Cancels First Revision of Sheet RR-6.1

GENERAL RULES AND REGULATIONS

(continued)

Rule 6. Deposits and other Security: General (continued).

Except where provided otherwise in this or any other applicable Schedule of this Tariff P.U.C. Or. 25, deposits will be held by the Company for one Year. At the end of one Year, the Company will review the account to determine if Customer has met the conditions for establishing satisfactory credit, which are described in **Rule 2**. If a Customer has not established satisfactory credit, the deposit may be held on the account for a subsequent Year, with interest. Any interest accrued for the prior Year will be applied as a bill credit on the Customer's next regular monthly bill.

If Customer has met the conditions for establishing satisfactory credit, the deposit plus accrued interest will be refunded or credited to Customer. If there are any other current or prior accounts for such Customer, the Company may review such accounts to determine if there is any unpaid past-due balance owing to the Company. Prior to refunding or crediting a deposit amount, the Company may first apply the refundable deposit and accrued interest, to such past due amounts. Any remaining balance shall be refunded or credited to the account for which the deposit was held.

The Company may provide other arrangements for the refunding and/or crediting of deposits under this rule where good cause exists.

Upon voluntary termination of service, any deposit amount held on account of a Customer shall be refunded or credited to the Customer in the manner set forth in **Rule 16**.

The Company's acceptance of a deposit or other security shall not relieve a Customer from complying with the Rules and Regulations established by the Commission, including but not limited to the prompt payment of bills and the Disconnection of Service for non-payment.

(C)

(continue to Sheet RR-6A)

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Third Revision of Sheet RR-6A
Cancels Second Revision of Sheet RR-6A

GENERAL RULES AND REGULATIONS

(continued)

Rule 6A. Deposits and Surety Agreements: Residential.

Deposits.

A deposit may be required from a Residential known Applicant or Customer as a condition of new or continued service as set forth in **Rule 2**. (C)

A low-income Residential Customer, as defined in OAR 860-021-0180, will not be charged a deposit. (N)

The deposit for any Schedule 4 Residential Multi-Family Applicant or Customer is \$20.00.

The deposit for any other Residential known Applicant or Customer account will not exceed one-sixth of the estimated annual billing at the service address based on twelve months of normal usage history at the premise, rounded to the nearest dollar. If the Company has no record of prior gas service at the service address, or if there is less than 12 months of normal usage history at the service address, the default deposit will be based on installed gas-fired equipment as follows: (C)

Installed Gas-Fired Equipment	Deposit Amount
Space and Water Heat	\$ 125.00
Space Heat Only	\$ 100.00
No Space Heat	\$ 40.00

Deposits will be refunded or credited to Customers as set forth in **Rule 6**. Except as provided otherwise in this or any other applicable Schedule of this Tariff P.U.C. Or. 25, deposits are typically due prior to or at the time that service is activated or reactivated. At the Company's discretion, a deposit or additional deposit amount may be billed with the first monthly bill following the date of notice that a deposit is required.

A deposit or additional deposit may be required from a Residential Customer following the Company's receipt of notification that such Customer is named as a debtor party to a bankruptcy filing. Such a deposit shall be separate and apart from any additional surety amount ordered by the bankruptcy court.

The Company may also require an additional deposit from a Residential Customer that moves to a new residence and the anticipated bill at the new residence will be at least 20 percent greater than the basis of an existing deposit. The Company will provide written notice to the Customer of such action at the time that the additional deposit amount is billed.

A Residential Customer that is required to pay an additional deposit amount must pay the deposit in full, or make deposit payment arrangements, within five (5) Business Days from the date of notice that the additional deposit is required. If a deposit installment arrangement is already in place, the existing installment payments will be adjusted for the additional deposit amount. In no event will two installment payments be required for the same account within a single bill period.

Any known Applicant or Customer may pay a deposit, or additional deposit, of more than \$30 in up to three (3) consecutive installments. A deposit that is more than \$30 but equal to or less than \$60 may be paid in two consecutive installments. If a deposit is paid in installments, the first payment equal to the greater of \$30.00 or one-third of the total deposit amount will be immediately due. The remaining payments will be billed and due with the subsequent two monthly bills. Except for the last payment, installment payments will not be less than \$30.00. (C)

(continue to Sheet RR-6A.1)

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First Revision of Sheet RR-6A.1
Cancels Original Sheet RR-6A.1

GENERAL RULES AND REGULATIONS

(continued)

Rule 6A. Deposits and Surety Agreements: Residential (continued).

Deposits (continued).

When a Residential known Applicant or Customer agrees to a deposit installment plan, the Company will provide the Customer with documentation showing the total deposit amount and the date that each installment payment is due. The notice will include a statement that the deposit will accrue interest at the rate prescribed by the Commission, an explanation of the conditions under which the deposit will be refunded, information on how to obtain financial assistance, and a statement that service will be disconnected if the payments are not received by the Company when due. (C)

Failure to pay a deposit or to abide by the terms of a deposit installment plan is cause for Disconnection of Service. Service may be disconnected after written notice is issued not less than five (5) calendar days prior to the date of the scheduled disconnection, except that if the deposit is deemed unpaid because the payment was returned or not honored by the respective financial institution, notice of disconnection will be made as set forth in **Rule 6**. Before service will be restored, the full deposit amount, plus one-half of any past due amount for gas service, plus the applicable reconnection fee and late payment fee, shall first be paid. The balance of the past due amount shall be paid due with the subsequent bill after service is restored. An existing Time Payment Plan may continue upon payment of all past-due installments, along with the full deposit and other applicable fees. (C)

Surety Agreements.

In lieu of paying a deposit, a Residential known Applicant or Customer may obtain a written surety agreement from a qualifying third person ("the Surety"). The Surety must be a current Customer of the Company who meets all of the conditions of provision (A) as set forth in **Rule 2**. The Surety will have the right to receive and discuss with the Company the account of the benefiting Customer and will be sent a duplicate of any notices of disconnection (5-day notice) issued on the benefiting Customer's account. (C)

The surety agreement must secure payment in an amount equal to two months' average usage at the benefiting Customer's service address. Nothing precludes the Surety from voluntarily paying more than this amount if the surety agreement is invoked.

The Company must receive a signed surety agreement before service will be activated or reactivated. If the gas service is active, the known Applicant or Customer will have five (5) Business Days in which to submit the signed surety agreement, Gas Service will be disconnected without further notice if the signed surety agreement or other acceptable security is not received. (C)

In the event a Customer for whom a surety agreement is in effect is disconnected for nonpayment, the Company may collect from the Surety the amount of the two months' average usage at the benefiting Customer's service address. The payment made by the Surety will be applied to the benefiting Customer's balance due.

(continue to Sheet RR-6A.2)

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Second Revision of Sheet RR-11
Cancels First Revision of Sheet RR-11

GENERAL RULES AND REGULATIONS

(continued)

Rule 11. Disconnection and Reconnection of Service – By Company.

The following shall be cause for a Disconnection of Service by the Company:

- (a) Failure to pay Tariff or price-listed charges for services rendered;
- (b) Meter tampering, diverting service, or other theft of service;
- (c) When a Customer is found to have provided false identification to establish service, continue service, or verify identity;
- (d) Failure to pay a deposit under the terms of **Rule 6**;
- (e) Failure to abide by the terms of a Time Payment Agreement;
- (f) For a delinquent collect balance on an Equal Pay Plan;
- (g) The existence of hazardous or unsafe conditions; or
- (h) Failure to provide access to the Company's meter or other Distribution Facilities; or
- (i) Other applicable reasons set forth in the Commission Rules.

The Company will not disconnect service for non-payment on Friday, Saturday, Sunday, on a holiday, or the day preceding a state- or utility-recognized holiday.

In addition, the Company will not disconnect service to a Residential Customer for non-payment when the daily high temperature forecast in a given geographic area is reported by the Company's approved weather reporting service to be less than 32 degrees Fahrenheit. The NWN Weather Zones identified in Rule 24 of this Tariff define the geographic areas to be used for purposes of this provision. The decision to hold disconnections of service will be made by 8:00 a.m. each morning and will apply only to the specific geographic area(s) that meet the temperature threshold. Any disconnection of service placed on hold due to this provision shall be re-scheduled for completion on the next available business day as weather and operational conditions allow, subject to the restrictions and limitations identified in this Rule 11.

A Customer that receives a Disconnection of Service notice for non-payment may be eligible to enter into a Time Payment Agreement designed to bring their account current. The Time Payment Agreements available to Customers are described in **Rules 9 and 9A**.

Notice of Disconnection of Service

Non-payment

The Company will issue no fewer than two notices to Commercial Schedule 3 Customers and Residential Customers before a Disconnection of Service is initiated by the Company for non-payment. The first notice will give the Customer at least twenty (20) calendar days following the day the notice was mailed to make payment or payment arrangements. The second notice will give the Customer at least five (5) Business Days following the date of mailing before service will be disconnected. (N) (C)

If the notice is for non-payment of a deposit, Customer or known Applicant will have no fewer than five (5) Business Days after mailing or delivery of the notice to make payment before service is disconnected. (C)

(continue to Sheet RR-11.1)

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Second Revision of Sheet RR-11.1
Cancels First Revision of Sheet RR-11.1

GENERAL RULES AND REGULATIONS

(continued)

Rule 11. Disconnection and Reconnection of Service – By Company (continued).

Notice of Disconnection of Service; Non-payment (continued)

A Residential Customer with a bona fide medical condition will be given an additional five (5) Business Days to submit an emergency medical certificate before service will be disconnected. The emergency medical certificate must comply with the terms and conditions set forth in **Rule 10** of this Tariff.

The Company will attempt to contact the Customer on the day the service is scheduled to be disconnected. If service is disconnected, a notice stating the requirements for service reconnection will be left in a conspicuous place at the residence.

Notice to Commercial Schedule 3 Customers will be provided as described above; service to other Non-Residential Customers may be disconnected for non-payment on not less than five (5) Business Days written notice. (N)(T)

False Identification

When the Company determines that an account was established with false identification within sixty (60) calendar days from the date the false identification was given to the Company, the Company will notify the Customer that valid identification must be submitted within five (5) Business Days from the date the notice was mailed.

When more than sixty (60) calendar days have passed from the date the false identification was given to the Company, the notice will require that valid identification be submitted within fifteen (15) Business Days following the date the notice was mailed.

If the Customer fails to provide valid identification in the form required by **Rule 2** within the time indicated on the notice, the Company may disconnect service without further notice.

Other

For any other cause for a Disconnection of Service, the Company will issue one notice to a Customer before service is disconnected. The notice will give the Customer at least five (5) Business Days prior to the date service is scheduled to be disconnected to take appropriate actions to prevent the Disconnection of Service.

Advance notice is not required when the Disconnection of Service is for emergencies where life or property is in danger or for additional reasons as set forth in this Rule.

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Fifth Revision of Sheet H-5
 Cancels Fourth Revision of Sheet H-5

**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, 2022		
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%	16.5%
Year 5	15.8%	15.5%
Year 6	14.8%	14.5%
Year 7	13.7%	13.6%
Year 8	12.7%	12.6%
Year 9	11.8%	11.8%
Year 10	10.9%	10.9%

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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 26, 2022
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Effective with service on
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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Twelfth Revision of Sheet P-2
Cancels Eleventh Revision of Sheet P-2

**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, 2022:

Estimated Annual Sales WACOG per therm (w/ revenue sensitive):	\$0.50676	(R)
Estimated Annual Sales WACOG per therm (w/o revenue sensitive):	\$0.49248	(R)

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, 2022:

Estimated Winter Sales WACOG per therm (w/ revenue sensitive):	\$0.61458	(R)
Estimated Winter Sales WACOG per therm (w/o revenue sensitive):	\$0.59726	(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, 2022:

Estimated Non-Commodity Cost per therm-Firm Sales (w/revenue sensitive):	\$0.08571
Estimated Non-Commodity Cost per therm-Firm Sales (w/o revenue sensitive):	\$0.08329

(continue to Sheet P-3)

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P.U.C. Or. 25

First Revision of Sheet X-5
Cancels Original Sheet X-5

SCHEDULE X DISTRIBUTION FACILITIES EXTENSIONS FOR APPLICANT-REQUESTED SERVICES AND MAINS (continued)

REQUIREMENTS FOR NEW CONSTRUCTION AND PLANNED DEVELOPMENT INSTALLATIONS

(continued):

The installation schedule for a Company provided utility pathway will be determined between the Company and the Applicant. If the Company fails to meet the agreed installation schedule, the Company will pay to the Applicant the service guarantee credit specified in **Schedule C**.

CONSTRUCTION ALLOWANCE:

The Construction Allowance is based upon the Customer classification. The customer classifications are:

- (1) Residential (Single-Family or Multi-Family Dwellings), and
- (2) Non-Residential (Commercial and Industrial) and Planned Developments.

An Applicant is subject to the conditions set forth in the "GENERAL CONDITIONS OF SERVICE" provision of this Schedule if the Applicant fails to install the equipment associated with the Construction Allowance afforded to the Applicant under this Schedule.

The Construction Allowances for each Customer classification follow:

Residential

The Construction Allowance per residential dwelling will be equal to the factor shown below times the annual margin using the Base Rate and Base Adjustment from the applicable Rate Schedule times the annual estimated therm usage attributable to the Applicant's particular installation. For example, on November 2, 2022, the construction allowance for an Applicant expected to use 531 therms annually would be \$2,300. The Calculation of the estimated therm usage assumes usage in a permanent structure occupied 12 months per year and may be adjusted where service is requested where occupancy is known or expected to be less than 12 months per year. The estimated therm usage is determined from structure characteristics, demographics, heating degree days and type and number of appliances to be installed.

Effective Period	Margin Factor
November 1, 2022 – October 31, 2023	5 times
November 1, 2023 – October 31, 2024	4 times
November 1, 2024	3 times

(continue to Sheet X-6)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Thirteenth Revision of Sheet 2-1
Cancels Twelfth 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, 2022

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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	---	---	---	---	\$8.00
Volumetric Charge (per therm):	\$0.68192	\$0.00196	\$0.08571	\$0.50676	(\$0.05774)	\$1.21861

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(continue to Sheet 2-2)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Thirteenth Revision of Sheet 3-4
Cancels Twelfth Revision of Sheet 3-4

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

MONTHLY RATE: Effective: November 1, 2022

(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.

FIRM SALES SERVICE CHARGES: (03CSF and 03ISF)						Billing Rates [1]
Customer Charge (per month):						\$15.00
Volumetric Charges (per therm):	Base Rate	Base Adjustment	Pipeline Capacity	Commodity Component [2]	Temporary Adjustment	
Commercial	\$0.55443	\$0.00196	\$0.08571	\$0.50676	\$0.03780	\$1.18666
Industrial	\$0.43754	\$0.00196	\$0.08571	\$0.50676	\$0.10373	\$1.13570
Standby Charge (per therm of MHDV) [3]:						\$10.00

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[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.

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P.U.C. Or. 25

Third Revision of Sheet 4-1
Cancels Second 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: \$10.30

Effective: November 1, 2022

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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.

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NORTHWEST NATURAL GAS COMPANY

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Fourth Revision of Sheet 15-1
Cancels Third 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, 2022

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The currently available meter sizes and associated monthly charges are shown below:

<u>Meter Size</u> (Cubic Feet/hour)	<u>Monthly Charge</u>
250	\$2.17
630	\$6.19
1000	\$10.62

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Rotary Meters: Effective: November 1, 2022

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Meter Size	<u>Meter Capacity</u> (Cubic Feet/hour)	Monthly Charge
1.5M175/15C175	1500	\$28.51
3M175	3000	\$30.77
5M175	5000	\$34.62
7M175	7000	\$35.57
11M175	11000	\$55.10
16M175	16000	\$71.41
23M175	23000	\$96.58
38M175	38000	\$262.79

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(continue to Sheet 15-2)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 15-2
Cancels Third 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

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 ¹	---	\$1,270.53	\$53.68
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	---	---

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

(continue to Sheet 15-3)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Eleventh Revision of Sheet 27-1
Cancels Tenth 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, 2022

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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	---	---	---	---	\$8.00
Volumetric Charge (per therm)						
All therms	\$0.49444	\$0.00196	\$0.08571	\$0.50676	\$0.07702	\$1.16589

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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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Thirteenth Revision of Sheet 31-11
Cancels Twelfth Revision of Sheet 31-11

RATE SCHEDULE 31 NON-RESIDENTIAL FIRM SALES AND FIRM TRANSPORTATION SERVICE (continued)

MONTHLY RATES FOR COMMERCIAL CUSTOMER CLASS:

Effective: November 1, 2022

(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.

FIRM SALES SERVICE CHARGES (31 CSF) [1]:					Billing Rates
Customer Charge (per month):					\$325.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.30253	\$0.00196	\$0.50676	\$0.04002	\$0.85127
Block 2: All additional therms	\$0.27603	\$0.00196	\$0.50676	\$0.03949	\$0.82424
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.08571
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$1.27
FIRM TRANSPORTATION SERVICE CHARGES (31 CTF):					
Customer Charge (per month):					\$325.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [4]	
Block 1: 1 st 2,000 therms	\$0.27194	\$0.00082		\$0.01229	\$0.28505
Block 2: All additional therms	\$0.24861	\$0.00082		\$0.01176	\$0.26119

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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.

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Eleventh Revision of Sheet 31-12
Cancels Tenth Revision of Sheet 31-12

RATE SCHEDULE 31

NON-RESIDENTIAL FIRM SALES AND FIRM TRANSPORTATION SERVICE (continued)

MONTHLY RATES FOR INDUSTRIAL CUSTOMER CLASS:

Effective: November 1, 2022

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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**.

FIRM SALES SERVICE CHARGES (31 ISF) [1]:					Billing Rates
Customer Charge (per month):					\$325.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.23089	\$0.00196	\$0.50676	\$0.10141	\$0.84102
Block 2: All additional therms	\$0.20815	\$0.00196	\$0.50676	\$0.10099	\$0.81786
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.08571
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$1.27
FIRM TRANSPORTATION SERVICE CHARGES (31 ITF):					
Customer Charge (per month):					\$325.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment		Total Temporary Adjustments [4]	
Block 1: 1 st 2,000 therms	\$0.23417	\$0.00082		\$0.01106	\$0.24605
Block 2: All additional therms	\$0.21165	\$0.00082		\$0.01062	\$0.22309

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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** 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.

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Eleventh Revision of Sheet 32-12
Cancels Tenth Revision of Sheet 32-12

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

MONTHLY RATES:

Effective: November 1, 2022

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**.

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FIRM SALES SERVICE CHARGES [1]:					Billing Rates
Customer Charge (per month, all service types):					\$675.00
	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
32 CSF Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.15884	\$0.00196	\$0.50676	\$0.10105	\$0.76861
Block 2: Next 20,000 therms	\$0.13408	\$0.00196	\$0.50676	\$0.10042	\$0.74322
Block 3: Next 20,000 therms	\$0.09297	\$0.00196	\$0.50676	\$0.09940	\$0.70109
Block 4: Next 100,000 therms	\$0.05171	\$0.00196	\$0.50676	\$0.09836	\$0.65879
Block 5: Next 600,000 therms	\$0.02207	\$0.00196	\$0.50676	\$0.09761	\$0.62840
Block 6: All additional therms	\$0.00802	\$0.00196	\$0.50676	\$0.09727	\$0.61401
32 ISF Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.12308	\$0.00196	\$0.50676	\$0.09833	\$0.73013
Block 2: Next 20,000 therms	\$0.10391	\$0.00196	\$0.50676	\$0.09815	\$0.71078
Block 3: Next 20,000 therms	\$0.07188	\$0.00196	\$0.50676	\$0.09787	\$0.67847
Block 4: Next 100,000 therms	\$0.03995	\$0.00196	\$0.50676	\$0.09757	\$0.64624
Block 5: Next 600,000 therms	\$0.01766	\$0.00196	\$0.50676	\$0.09734	\$0.62372
Block 6: All additional therms	\$0.00644	\$0.00196	\$0.50676	\$0.09723	\$0.61239
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					\$0.15748
Firm Sales Service Storage Charge (per therm of MDDV per month):					\$0.20415
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.08571
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV per month):					\$1.27

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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.

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Thirteenth Revision of Sheet 32-13
Cancels Twelfth Revision of Sheet 32-13

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

MONTHLY RATES (continued):

Effective: November 1, 2022

(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**

INTERRUPTIBLE SALES SERVICE CHARGES [1][4]:					Billing Rates
Customer Charge (per month):					\$675.00
	Base Rate	Base Rate Adjustment	Commodity Component [2]	Total Temporary Adjustments [3]	
32 CSI Volumetric Charges (per therm):					
Block 1: 1 st 10,000 therms	\$0.13468	\$0.00196	\$0.50676	\$0.09728	\$0.74068
Block 2: Next 20,000 therms	\$0.11371	\$0.00196	\$0.50676	\$0.09690	\$0.71933
Block 3: Next 20,000 therms	\$0.07871	\$0.00196	\$0.50676	\$0.09628	\$0.68371
Block 4: Next 100,000 therms	\$0.04369	\$0.00196	\$0.50676	\$0.09565	\$0.64806
Block 5: Next 600,000 therms	\$0.02268	\$0.00196	\$0.50676	\$0.09525	\$0.62665
Block 6: All additional therms	\$0.00732	\$0.00196	\$0.50676	\$0.09497	\$0.61101
Interruptible Pipeline Capacity Charge (per therm):					\$0.01020
32 ISI Volumetric Charges (per therm):					
Block 1: 1 st 10,000 therms	\$0.12033	\$0.00196	\$0.50676	\$0.09609	\$0.72514
Block 2: Next 20,000 therms	\$0.10158	\$0.00196	\$0.50676	\$0.09592	\$0.70622
Block 3: Next 20,000 therms	\$0.07031	\$0.00196	\$0.50676	\$0.09566	\$0.67469
Block 4: Next 100,000 therms	\$0.03902	\$0.00196	\$0.50676	\$0.09538	\$0.64312
Block 5: Next 600,000 therms	\$0.02025	\$0.00196	\$0.50676	\$0.09523	\$0.62420
Block 6: All additional therms	\$0.00651	\$0.00196	\$0.50676	\$0.09510	\$0.61033
Interruptible Pipeline Capacity Charge (per therm):					\$0.01020

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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)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Eleventh Revision of Sheet 33-8
Cancels Tenth Revision of Sheet 33-8

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

MONTHLY RATE:

Effective: November 1, 2022

(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.

FIRM TRANSPORTATION SERVICE CHARGES (33 TF)					
					Billing Rates
Customer Charge:					\$38,000.00
Transportation Charge:					\$250.00
Volumetric Charge:		Base Rate	Base Rate Adjustments	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00574	\$0.00082	(\$0.00027)	\$0.00629
Firm Service Distribution Capacity Charge: Per therm of MDDV per month					\$0.15748
Minimum Monthly Bill: Customer Charge, plus Transportation Charge, plus Firm Service Distribution Capacity Charge, plus any other charges that may apply from Schedule C and Schedule 15 .					

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INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (33 TI)					
					Billing Rates
Customer Charge:					\$38,000.00
Transportation Charge:					\$250.00
Volumetric Charge:		Base Rate	Base Rate Adjustments	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00574	\$0.00082	(\$0.00027)	\$0.00629
Minimum Monthly Bill: Customer Charge, plus Transportation Charge, plus any other charges that may apply from Schedule C and Schedule 15 .					

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[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.

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Eighth Revision of Sheet 100-1
Cancels Seventh Revision Sheet 100-1

**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, 2022

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

(C)

Schedule 2: Residential Sales Service

	Applicable	Firm Sales		
		Residential		
Deferred Gas Cost Amortization (Schedule 162)	All Therms	\$0.05839		(I)
Rate Mitigation (Schedule 166)	All Therms	(\$0.11688)		(N)
Net Curtailment and Entitlement Revenues (168)	All Therms	(\$0.00026)		(I)
Intervenor Funding (Schedule 172)	All Therms	\$0.00027		(R)
Covid-19 Deferral (Schedule 173)	All Therms	\$0.00980		(N)
Corporate Activity Tax (CAT) (Schedule 177)	All Therms	\$0.00085		(R)
Regulatory Rate Adjustment (Schedule 178)	All Therms	(\$0.00016)		(T)(I)
TSA Security Directive 2 Compliance Costs (Schedule 180)	All Therms	\$0.00358		(N)
Regulatory Fee (Schedule 181)	All Therms	\$0.00092		(I)
Environmental Cost Recovery (Schedule 183)	All Therms	\$0.01170		(I)
TSA Capital and Cost of Service Recovery (Schedule 189)	All Therms	\$0.00116		(N)
Decoupling Adjustment (Schedule 190)	All Therms	(\$0.02316)		(R)
WARM True-up (Schedule 195)	All Therms	\$0.00102		(R)
Gas Reserve EDIT Amortization Credit (Schedule 196)	All Therms	(\$0.00497)		(I)

Schedule 3: Basic Firm Sales - Non-Residential

	Applicable	Firm Sales		
		Commercial	Industrial	
Deferred Gas Cost Amortization (Schedule 162)	All Therms	\$0.05839	\$0.05839	(I)(I)
Net Curtailment and Entitlement Revenues (168)	All Therms	(\$0.00019)	(\$0.00014)	(I)(I)
Intervenor Funding (Schedule 172)	All Therms		\$0.00019	(R)
Covid-19 Deferral (Schedule 173)	All Therms	\$0.00811	\$0.00432	(N)(N)
Corporate Activity Tax (CAT) (Schedule 177)	All Therms	\$0.00072	\$0.00064	(R)(R)
Regulatory Rate Adjustment (Schedule 178)	All Therms	(\$0.00010)	(\$0.00006)	(T)(I)(I)
TSA Security Directive 2 Compliance Costs (Schedule 180)	All Therms	\$0.00261	\$0.00198	(N)(N)
Regulatory Fee (Schedule 181)	All Therms	\$0.00078	\$0.00069	(I)(I)
Environmental Cost Recovery (Schedule 183)	All Therms	\$0.00853	\$0.00648	(I)(I)
Industrial DSM (Schedule 188)	All Therms		\$0.03793	(I)
TSA Capital and Cost of Service Recovery (Schedule 189)	All Therms	\$0.00096	\$0.00051	(N)(N)
Decoupling Adjustment (Schedule 190)	All Therms	(\$0.03930)		(R)
WARM True-up (Schedule 195)	All Therms	\$0.00226		(R)
Gas Reserve EDIT Amortization Credit (Schedule 196)	All Therms	(\$0.00497)	(\$0.00720)	(I)(R)

(continue to Sheet 100-2)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Seventh Revision of Sheet 100-2
Cancels Sixth Revision of Sheet 100-2

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SCHEDULE 100
SUMMARY OF TEMPORARY ADJUSTMENTS
(continued)

TABLE OF TEMPORARY ADJUSTMENTS (continued): **Effective: November 1, 2022**

(C)

Rate Schedule 27: Residential Heating Dry Out Service

	Applicable	FIRM SALES	
		Commercial	
Deferred Gas Cost Amortization (Schedule 162)	All Therms	\$0.05839	(I)
Net Curtailment and Entitlement Revenues (168)	All Therms	(\$0.00021)	(I)
Covid-19 Deferral (Schedule 173)	All Therms	\$0.00899	(N)
Corporate Activity Tax (CAT) (Schedule 177)	All Therms	\$0.00075	(R)
Regulatory Rate Adjustment (Schedule 178)	All Therms	(\$0.00011)	(T)(I)
TSA Security Directive 2 Compliance Costs (Schedule 180)	All Therms	\$0.00289	(N)
Regulatory Fee (Schedule 181)	All Therms	\$0.00081	(I)
Environmental Cost Recovery (Schedule 183)	All Therms	\$0.00942	(I)
TSA Capital and Cost of Service Recovery (Schedule 189)	All Therms	\$0.00106	(N)
Gas Reserve EDIT Amortization Credit (Schedule 196)	All Therms	(\$0.00497)	(I)

Schedule 31: Non-Residential Firm Sales and Firm Transportation

	Applicable	FIRM SALES		FIRM TRANSPORTATION		
		Commercial	Industrial	Commercial	Industrial	
Deferred Gas Cost Amortization (Schedule 162)	All Blocks	\$0.05839	\$0.05839			(I)(I)
Net Curtailment and Entitlement Revenues (168)	Block 1	(\$0.00013)	(\$0.00009)			(I)(I)
	Block 2	(\$0.00012)	(\$0.00008)			(I)(I)
Climate Protection Plan (Schedule 171)	Block 1			\$0.00602	\$0.00602	(N)
	Block 2			\$0.00602	\$0.00602	(N)
Intervenor Funding (Schedule 172)	All Blocks		\$0.00019		\$0.00019	(R) (R)
Covid-19 Deferral (Schedule 173)	Block 1	\$0.00408	\$0.00292	\$0.00406	\$0.00314	(N)
	Block 2	\$0.00372	\$0.00263	\$0.00371	\$0.00284	(N)
Corporate Activity Tax (CAT) (Schedule 177)	Block 1	\$0.00053	\$0.00046	\$0.00028	\$0.00022	(R)(R)(R)(R)
	Block 2	\$0.00051	\$0.00045	\$0.00026	\$0.00020	(R)(R)(R)(R)
Regulatory Rate Adjustment (Schedule 178)	Block 1	(\$0.00005)	(\$0.00002)	(\$0.00006)	(\$0.00003)	(I)(I)(R) (T)
	Block 2	(\$0.00005)	(\$0.00001)	(\$0.00004)	(\$0.00002)	(I)(I)(R)
TSA Security Directive 2 Compliance Costs (Schedule 180)	Block 1	\$0.00186	\$0.00125	\$0.00190	\$0.00145	(N)
	Block 2	\$0.00170	\$0.00112	\$0.00173	\$0.00131	(N)
Regulatory Fee (Schedule 181)	All Blocks	\$0.00057	\$0.00049	\$0.00030	\$0.00023	(I)(I)(I)(I)
Environmental Cost Recovery (Schedule 183)	Block 1	\$0.00607	\$0.00407	\$0.00619	\$0.00473	(I)(I)(I)(I)
	Block 2	\$0.00554	\$0.00367	\$0.00566	\$0.00428	(I)(I)(I)(I)
Industrial DSM (Schedule 188)	All Blocks		\$0.03793			(I)
TSA Capital and Cost of Service Recovery (Schedule 189)	Block 1	\$0.00048	\$0.00034	\$0.00048	\$0.00037	(N)
	Block 2	\$0.00044	\$0.00031	\$0.00044	\$0.00034	(N)
Decoupling Adjustment (Schedule 190)	Block 1	(\$0.02503)				(R)
	Block 2	(\$0.02503)				(R)
Gas Reserve EDIT Amortization Credit (Schedule 196)	Block 1	(\$0.00675)	(\$0.00452)	(\$0.00688)	(\$0.00526)	(R)(R)(R)(R)
	Block 2	(\$0.00616)	(\$0.00408)	(\$0.00629)	(\$0.00475)	(R)(R)(R)(R)

(continue to Sheet 100-3)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Eighth Revision of Sheet 100-3
Cancels Seventh Revision of Sheet 100-3

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SCHEDULE 100 SUMMARY OF TEMPORARY ADJUSTMENTS (continued)

TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2022

(C)

Schedule 32: Large Volume Non-Residential Sales and Transportation

	Applicable	FIRM SALES		FIRM TRANSPORTATION		
		Commercial	Industrial	Commercial	Industrial	
Deferred Gas Cost Amortization (Schedule 162)	All Blocks	\$0.05839	\$0.05839			(I)(I)
Net Curtailment and Entitlement Revenues (168)	Block 1	(\$0.00008)	(\$0.00006)			(I)(I)
	Block 2	(\$0.00007)	(\$0.00005)			(I)(I)
	Block 3	(\$0.00005)	(\$0.00003)			(I)(I)
	Block 4	(\$0.00003)	(\$0.00002)			(I)(I)
	Block 5	(\$0.00001)	(\$0.00001)			(I)(I)
	Block 6	\$0.00000	\$0.00000			(I)(I)
Climate Protection Plan (Schedule 171)	Block 1			\$0.00602	\$0.00602	(N)
	Block 2			\$0.00602	\$0.00602	(N)
	Block 3			\$0.00602	\$0.00602	(N)
	Block 4			\$0.00602	\$0.00602	(N)
	Block 5			\$0.00602	\$0.00602	(N)
	Block 6			\$0.00602	\$0.00602	(N)
Intervenor Funding (Schedule 172)	All Blocks		\$0.00019		\$0.00019	(R) (R)
Covid-19 Deferral (Schedule 173)	Block 1	\$0.00283	\$0.00051	\$0.00050	\$0.00042	(N)
	Block 2	\$0.00239	\$0.00043	\$0.00042	\$0.00036	(N)
	Block 3	\$0.00166	\$0.00030	\$0.00030	\$0.00025	(N)
	Block 4	\$0.00092	\$0.00017	\$0.00017	\$0.00015	(N)
	Block 5	\$0.00039	\$0.00007	\$0.00010	\$0.00008	(N)
	Block 6	\$0.00014	\$0.00003	\$0.00005	\$0.00004	(N)
Corporate Activity Tax (CAT) (Schedule 177)	Block 1	\$0.00044	\$0.00039	\$0.00013	\$0.00011	(R)(R)(R)(R)
	Block 2	\$0.00042	\$0.00037	\$0.00011	\$0.00009	(R)(R)
	Block 3	\$0.00039	\$0.00035	\$0.00008	\$0.00006	(I)(I)
	Block 4	\$0.00036	\$0.00033	\$0.00005	\$0.00004	(I)(I)
	Block 5	\$0.00034	\$0.00031	\$0.00003	\$0.00002	(I)(I)
	Block 6	\$0.00033	\$0.00030	\$0.00001	\$0.00001	(I)(I) (R)(R)
Regulatory Rate Adjustment (Schedule 178)	Block 1	(\$0.00001)	\$0.00001	\$0.00000	\$0.00002	(I)(I)(I)(I)(T)
	Block 2	\$0.00000	\$0.00002	\$0.00001	\$0.00002	(I)(I)(I)(I)
	Block 3	\$0.00002	\$0.00003	\$0.00002	\$0.00004	(I)(I)(I)(I)
	Block 4	\$0.00004	\$0.00005	\$0.00004	\$0.00005	(I)(I)(I)(I)
	Block 5	\$0.00005	\$0.00006	\$0.00005	\$0.00005	(I)(I)(I)(I)
	Block 6	\$0.00006	\$0.00005	\$0.00005	\$0.00005	(I)(I)(I)(I)
TSA Security Directive 2 Compliance Costs (Schedule 180)	Block 1	\$0.00116	\$0.00078	\$0.00090	\$0.00073	(N)
	Block 2	\$0.00098	\$0.00066	\$0.00076	\$0.00062	(N)
	Block 3	\$0.00068	\$0.00045	\$0.00054	\$0.00044	(N)
	Block 4	\$0.00038	\$0.00025	\$0.00032	\$0.00026	(N)
	Block 5	\$0.00016	\$0.00011	\$0.00018	\$0.00015	(N)
	Block 6	\$0.00006	\$0.00004	\$0.00009	\$0.00007	(N)
Regulatory Fee (Schedule 181)	All Blocks	\$0.00048	\$0.00042	\$0.00014	\$0.00011	(I)(I)(I)(I)
Environmental Cost Recovery (Schedule 183)	Block 1	\$0.00379	\$0.00254	\$0.00294	\$0.00238	(I)(I)(I)(I)
	Block 2	\$0.00320	\$0.00215	\$0.00250	\$0.00202	(I)(I)(I)(I)
	Block 3	\$0.00222	\$0.00149	\$0.00176	\$0.00143	(I)(I)(I)(I)
	Block 4	\$0.00123	\$0.00083	\$0.00103	\$0.00083	(I)(I)(I)(I)
	Block 5	\$0.00053	\$0.00036	\$0.00059	\$0.00048	(I)(I)(I)(I)
	Block 6	\$0.00019	\$0.00013	\$0.00029	\$0.00024	(I)(I)(I)(I)
Industrial DSM (Schedule 188)	All Blocks	\$0.03793	\$0.03793			(I)(I)
TSA Security Directive (Schedule 189)	Block 1	\$0.00033	\$0.00006	\$0.00006	\$0.00005	(N)
	Block 2	\$0.00028	\$0.00005	\$0.00005	\$0.00004	(N)
	Block 3	\$0.00020	\$0.00004	\$0.00004	\$0.00003	(N)
	Block 4	\$0.00011	\$0.00002	\$0.00002	\$0.00002	(N)
	Block 5	\$0.00005	\$0.00001	\$0.00001	\$0.00001	(N)
	Block 6	\$0.00002	\$0.00000	\$0.00001	\$0.00000	(N)
Gas Reserve EDIT Amortization Credit (Schedule 196)	Block 1	(\$0.00421)	(\$0.00283)	(\$0.00327)	(\$0.00265)	(R)(R)(R)(R)
	Block 2	(\$0.00356)	(\$0.00239)	(\$0.00278)	(\$0.00225)	(R)(R)(R)(R)
	Block 3	(\$0.00247)	(\$0.00165)	(\$0.00196)	(\$0.00159)	(R)(R)(R)(R)
	Block 4	(\$0.00137)	(\$0.00092)	(\$0.00114)	(\$0.00093)	(R)(R)(R)(R)
	Block 5	(\$0.00059)	(\$0.00041)	(\$0.00065)	(\$0.00053)	(R)(R)(R)(R)
	Block 6	(\$0.00021)	(\$0.00015)	(\$0.00033)	(\$0.00027)	(R)(R)(R)(R)

(continue to Sheet 100-4)

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SCHEDULE 100
SUMMARY OF TEMPORARY ADJUSTMENTS
(continued)

TABLE OF TEMPORARY ADJUSTMENTS (continued): Effective: November 1, 2022

(C)

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

	Applicable	FIRM TRANSPORTATION	
		Commercial	Industrial
Climate Protection Plan (Schedule 171)	All Therms	\$0.00602	\$0.00602
Environmental Cost Recovery (Schedule 183)	All Therms	\$0.00000	\$0.00000

(N)

(R)(R)

	Applicable	INTERRUPTIBLE TRANSPORTATION
		All
Climate Protection Plan (Schedule 171)	All Therms	\$0.00602
Environmental Cost Recovery (Schedule 183)	All Therms	\$0.00000

(N)

(R)

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Thirteenth Revision of Sheet 164-1
Cancels Twelfth 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, 2022

Annual Sales WACOG [1]	\$0.50676
Winter Sales WACOG [2]	\$0.61458
Firm Sales Service Pipeline Capacity Component [3]	\$0.08571
Firm Sales Service Pipeline Capacity Component [4]	\$1.27
Interruptible Sales Service Pipeline Capacity Component [5]	\$0.01020

(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.

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 167-1
Cancels Third Revision of 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 435 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, 2022

(C)

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

Schedule	Adjustment Amount		Schedule	Adjustment Amount	
	Customer Charge	Volumetric Charge		Customer Charge	Volumetric Charge
02R	\$0.00	\$0.10393	03 CSF	\$0.00	\$0.08649
27	\$0.00	\$0.09598	03 ISF	\$0.00	\$0.04511

(I)(I)
(I)(I)

Schedule	Block	Amount	Schedule	Block	Amount	Schedule	Block	Amount		
31 CSF	Cust. Charge	\$0.00	32 CSF	Cust. Charge	\$0.00	32 CSI	Cust. Charge	\$0.00		
	Block 1	\$0.04264		Block 1	\$0.02959		Block 1	\$0.01725		
	Block 2	\$0.03890		Block 2	\$0.02497		Block 2	\$0.01457		
31CTF	Cust. Charge	\$0.00		Block 3	\$0.01732		Block 3	\$0.01009		
	Block 1	\$0.04246		Block 4	\$0.00963		Block 4	\$0.00559		
	Block 2	\$0.03881		Block 5	\$0.00411		Block 5	\$0.00290		
31ISF	Cust. Charge	\$0.00		Block 6	\$0.00150		Block 6	\$0.00094		
	Block 1	\$0.03047		32 ISF	Cust. Charge		\$0.00	32 ISI	Cust. Charge	\$0.00
	Block 2	\$0.02747		Block 1	\$0.00421		Block 1	\$0.00342		
31 ITF	Cust. Charge	\$0.00		Block 2	\$0.00356		Block 2	\$0.00289		
	Block 1	\$0.03278		Block 3	\$0.00246		Block 3	\$0.00200		
	Block 2	\$0.02963		Block 4	\$0.00137		Block 4	\$0.00110		
				Block 5	\$0.00060		Block 5	\$0.00057		
				Block 6	\$0.00021		Block 6	\$0.00017		
				32 CTF	Cust. Charge		\$0.00	32 CTI	Cust. Charge	\$0.00
				Block 1	\$0.00408		Block 1	\$0.00274		
				Block 2	\$0.00346		Block 2	\$0.00233		
				Block 3	\$0.00245		Block 3	\$0.00164		
				Block 4	\$0.00142		Block 4	\$0.00096		
				Block 5	\$0.00082		Block 5	\$0.00054		
				Block 6	\$0.00040		Block 6	\$0.00028		
			32 ITF	Cust. Charge	\$0.00	32 ITI	Cust. Charge	\$0.00		
			Block 1	\$0.00346	Block 1	\$0.00279				
			Block 2	\$0.00295	Block 2	\$0.00237				
				Block 3	\$0.0027		Block 3	\$0.00167		
				Block 4	\$0.00122		Block 4	\$0.00097		
				Block 5	\$0.00069		Block 5	\$0.00056		
				Block 6	\$0.00036		Block 6	\$0.00028		
				33	All		\$0.00000			

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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.

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 173-1
Cancels Third Revision of Sheet 173-1

**SCHEDULE 173
Adjustment for COVID Programs Cost Recovery**

PURPOSE:

The purpose of this Schedule is to reflect the rate effect to recover costs for programs that were put into place to help customers during COVID. Docket UM 2068(2) entered by the Public Utility Commission of Oregon on May 9, 2022.

APPLICABLE:

To all Customers served under the following Rate Schedules of the Tariff:

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

APPLICATION TO RATE SCHEDULES: Effective November 1, 2022

The Adjustment amounts shown below are calculated based on equal percent of margin by Rate Schedule and Customer class

Schedule	Block	Total Adjustment	Schedule	Block	Total Adjustment	Schedule	Block	Total Adjustment
2		\$0.00980	32 CTF	Block 1	\$0.00050	32 CTI	Block 1	\$0.00033
3 CSF		\$0.00811		Block 2	\$0.00042		Block 2	\$0.00028
3 ISF		\$0.00432		Block 3	\$0.00030		Block 3	\$0.00020
27		\$0.00899		Block 4	\$0.00017		Block 4	\$0.00012
31 CSF	Block 1	\$0.00408		Block 5	\$0.00010		Block 5	\$0.00007
	Block 2	\$0.00372		Block 6	\$0.00005		Block 6	\$0.00003
31 CTF	Block 1	\$0.00406	32 ITF	Block 1	\$0.00042	32 ITI	Block 1	\$0.00034
	Block 2	\$0.00371		Block 2	\$0.00036		Block 2	\$0.00029
31 ISF	Block 1	\$0.00292		Block 3	\$0.00025		Block 3	\$0.00020
	Block 2	\$0.00263		Block 4	\$0.00015		Block 4	\$0.00012
31 ITF	Block 1	\$0.00314		Block 5	\$0.00008		Block 5	\$0.00007
	Block 2	\$0.00284		Block 6	\$0.00004		Block 6	\$0.00003
32 CSF	Block 1	\$0.00283	32 CSI	Block 1	\$0.00165	33 (all)		\$0.00000
	Block 2	\$0.00239		Block 2	\$0.00139			
	Block 3	\$0.00166		Block 3	\$0.00096			
	Block 4	\$0.00092		Block 4	\$0.00054			
	Block 5	\$0.00039		Block 5	\$0.00028			
	Block 6	\$0.00014		Block 6	\$0.00009			
32 ISF	Block 1	\$0.00051	32 ISI	Block 1	\$0.00042			
	Block 2	\$0.00043		Block 2	\$0.00035			
	Block 3	\$0.00030		Block 3	\$0.00024			
	Block 4	\$0.00017		Block 4	\$0.00013			
	Block 5	\$0.00007		Block 5	\$0.00007			
	Block 6	\$0.00003		Block 6	\$0.00002			

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.

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fifth Revision of Sheet 177-2
Cancels Fourth Revision of Sheet 177-2

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

APPLICATION TO RATE SCHEDULES (continued):

Effective: November 1, 2022

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

Schedule	Block	CAT	Schedule	Block	CAT
2		\$0.00085	32 ITF	Block 1	\$0.00011
3 CSF		\$0.00072		Block 2	\$0.00009
3 ISF		\$0.00064		Block 3	\$0.00006
27		\$0.00075		Block 4	\$0.00004
31 CSF	Block 1	\$0.00053		Block 5	\$0.00002
	Block 2	\$0.00051		Block 6	\$0.00001
31 CTF	Block 1	\$0.00028	32 CSI	Block 1	\$0.00036
	Block 2	\$0.00026		Block 2	\$0.00035
31 ISF	Block 1	\$0.00046		Block 3	\$0.00033
	Block 2	\$0.00045		Block 4	\$0.00031
31 ITF	Block 1	\$0.00022		Block 5	\$0.00029
	Block 2	\$0.00020		Block 6	\$0.00028
32 CSF	Block 1	\$0.00044	32 ISI	Block 1	\$0.00037
	Block 2	\$0.00042		Block 2	\$0.00035
	Block 3	\$0.00039		Block 3	\$0.00033
	Block 4	\$0.00036		Block 4	\$0.00031
	Block 5	\$0.00034		Block 5	\$0.00030
	Block 6	\$0.00033		Block 6	\$0.00029
32 ISF	Block 1	\$0.00039	32 CTI	Block 1	\$0.00009
	Block 2	\$0.00037		Block 2	\$0.00008
	Block 3	\$0.00035		Block 3	\$0.00006
	Block 4	\$0.00033		Block 4	\$0.00003
	Block 5	\$0.00031		Block 5	\$0.00002
	Block 6	\$0.00030		Block 6	\$0.00001
32 CTF	Block 1	\$0.00013	32 ITI	Block 1	\$0.00010
	Block 2	\$0.00011		Block 2	\$0.00008
	Block 3	\$0.00008		Block 3	\$0.00006
	Block 4	\$0.00005		Block 4	\$0.00003
	Block 5	\$0.00003		Block 5	\$0.00002
	Block 6	\$0.00001		Block 6	\$0.00001
			33 (all)		\$0.00000

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

First Revision of Sheet 182-1
Cancels Original Sheet 182-1

**SCHEDULE 182
RATE ADJUSTMENT FOR ENVIRONMENTAL COST RECOVERY**

PURPOSE:

The purpose of this Schedule is to reflect the rate effects of the collection of \$5.0 million per year for the recovery of costs related to environmental remediation expenses, in accordance with Order No. 15-049 in Docket UM 1635 and UM 1706 entered by the Public Utility Commission of Oregon on February 20, 2015.

APPLICABLE:

To all Customers served under the following Rate Schedules of this Tariff:

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

APPLICATION TO RATE SCHEDULES: Effective: November 1, 2022

The Adjustment amounts shown below are calculated based on equal percent of margin by Rate Schedule and Customer class, and the rate allocation adopted in Docket UG 221. The adjustment amount is embedded in the Base Rate reflected in the respective Rate Schedules listed above. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

Rate Schedule/Class	Block	Base Rate Adjustment	Schedule	Block	Base Rate Adjustment
2		\$0.00872	31 CSF	Block 1	\$0.00455
03 CSF		\$0.00634		Block 2	\$0.00415
03 ISF		\$0.00483	31 ISF	Block 1	\$0.00319
27		\$0.00692		Block 2	\$0.00288
			31 CTF	Block 1	\$0.00470
				Block 2	\$0.00430
			31 ITF	Block 1	\$0.00363
				Block 2	\$0.00328
32 CSF	Block 1	\$0.00279	32 CSI	Block 1	\$0.00167
	Block 2	\$0.00235		Block 2	\$0.00141
	Block 3	\$0.00163		Block 3	\$0.00098
	Block 4	\$0.00091		Block 4	\$0.00054
	Block 5	\$0.00039		Block 5	\$0.00028
	Block 6	\$0.00014		Block 6	\$0.00009
32 ISF	Block 1	\$0.00194	32 ISI	Block 1	\$0.00173
	Block 2	\$0.00164		Block 2	\$0.00146
	Block 3	\$0.00113		Block 3	\$0.00101
	Block 4	\$0.00063		Block 4	\$0.00056
	Block 5	\$0.00028		Block 5	\$0.00029
	Block 6	\$0.00010		Block 6	\$0.00009
32 CTF	Block 1	\$0.00219	32 CTI	Block 1	\$0.00158
	Block 2	\$0.00186		Block 2	\$0.00134
	Block 3	\$0.00131		Block 3	\$0.00095
	Block 4	\$0.00077		Block 4	\$0.00055
	Block 5	\$0.00044		Block 5	\$0.00032
	Block 6	\$0.00022		Block 6	\$0.00016
32 ITF	Block 1	\$0.00181	32 ITI	Block 1	\$0.00160
	Block 2	\$0.00154		Block 2	\$0.00136
	Block 3	\$0.00109		Block 3	\$0.00096
	Block 4	\$0.00064		Block 4	\$0.00056
	Block 5	\$0.00036		Block 5	\$0.00032
	Block 6	\$0.00018		Block 6	\$0.00016
			33 (all)		\$0.00009

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Original Sheet 189-1

**SCHEDULE 189
ADJUSTMENT FOR TSA CAPITAL AND COST OF SERVICE COST
RECOVERY**

(N)

PURPOSE:

The purpose of this Schedule is to reflect the rate effects per year for the recovery of costs related to TSA capital and operations and maintenance expenses, in accordance with Order No. 22-388 in Docket UG 435 entered by the Public Utility Commission of Oregon on October 24, 2022.

APPLICABLE:

To all Customers served under the following Rate Schedules of this Tariff:

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

APPLICATION TO RATE SCHEDULES:

Effective: November 1, 2022

The Adjustment amounts shown below are calculated based on equal percent of margin by Rate Schedule and Customer class, and the rate allocation adopted in Docket UG 435. The adjustment amount is embedded in the Base Rate reflected in the respective Rate Schedules listed above. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

Rate Schedule/Class	Block	Base Rate Adjustment	Schedule	Block	Base Rate Adjustment
2		\$0.00116	31 CSF	Block 1	\$0.00048
03 CSF		\$0.00096		Block 2	\$0.00044
03 ISF		\$0.00051	31 ISF	Block 1	\$0.00034
27		\$0.00106		Block 2	\$0.00031
			31 CTF	Block 1	\$0.00048
				Block 2	\$0.00044
			31 ITF	Block 1	\$0.00037
				Block 2	\$0.00034
32 CSF	Block 1	\$0.00033	32 CSI	Block 1	\$0.00020
	Block 2	\$0.00028		Block 2	\$0.00016
	Block 3	\$0.00020		Block 3	\$0.00011
	Block 4	\$0.00011		Block 4	\$0.00006
	Block 5	\$0.00005		Block 5	\$0.00003
	Block 6	\$0.00002		Block 6	\$0.00001
32 ISF	Block 1	\$0.00006	32 ISI	Block 1	\$0.00005
	Block 2	\$0.00005		Block 2	\$0.00004
	Block 3	\$0.00004		Block 3	\$0.00003
	Block 4	\$0.00002		Block 4	\$0.00002
	Block 5	\$0.00001		Block 5	\$0.00001
	Block 6	\$0.00000		Block 6	\$0.00000
32 CTF	Block 1	\$0.00006	32 CTI	Block 1	\$0.00004
	Block 2	\$0.00005		Block 2	\$0.00003
	Block 3	\$0.00004		Block 3	\$0.00002
	Block 4	\$0.00002		Block 4	\$0.00001
	Block 5	\$0.00001		Block 5	\$0.00001
	Block 6	\$0.00001		Block 6	\$0.00000
32 ITF	Block 1	\$0.00005	32 ITI	Block 1	\$0.00004
	Block 2	\$0.00004		Block 2	\$0.00003
	Block 3	\$0.00003		Block 3	\$0.00002
	Block 4	\$0.00002		Block 4	\$0.00001
	Block 5	\$0.00001		Block 5	\$0.00001
	Block 6	\$0.00000		Block 6	\$0.00000
			33 (all)		\$0.00000

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.

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Eleventh Revision of Sheet 190-2
Cancels Tenth Revision of Sheet 190-2

SCHEDULE 190 PARTIAL DECOUPLING MECHANISM (continued)

PARTIAL DECOUPLING DEFERRAL ACCOUNT (continued):

2. The baseline use-per-customer is:

Residential:	633.0	(C)
Commercial (Schedule 3):	2,849.0	(C)
Commercial (Schedule 31):	33,542.5	(C)

3. Weather-normalized usage is calculated using the approach to weather normalization adopted in the Company's last general rate case, Docket UG 435. 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.

Step Two. This step derives the per-therm customer variance by multiplying the heating degree-day difference by the usage coefficient of .14942 for Residential variances, .61412 for Commercial (Schedule 3) variances, and 6.12342 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, 2022 is \$0.68388 per therm for Residential customers and \$0.55639 per therm for Commercial (Schedule 3) customers and \$0.29264 per therm for Commercial (Schedule 31) customers. (C)(I)(I)
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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.

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Fourth Revision of Sheet 195-3
Cancels Third Revision of Sheet 195-3

**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, 2022 are: (C)

Rate Schedule 2:	0.14942	Rate Schedule 3:	0.61412
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(continue to Sheet 195-4)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Seventh Revision of Sheet 195-4
Cancels Sixth 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 November 1, 2022 are:

Rate Schedule 2:	\$0.68388	Rate Schedule 3:	\$0.55639
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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	0.1494	\$0.10	0.6141	\$0.34
5	0.7471	\$0.51	3.0706	\$1.71
10	1.4942	\$1.02	6.1412	\$3.42
15	2.2413	\$1.53	9.2118	\$5.13
20	2.9884	\$2.04	12.2824	\$6.83
25	3.7355	\$2.55	15.353	\$8.54
30	4.4826	\$3.07	18.4236	\$10.25
35	5.2297	\$3.58	21.4942	\$11.96
40	5.9768	\$4.09	24.5648	\$13.67
45	6.7239	\$4.60	27.6354	\$15.38
50	7.471	\$5.11	30.706	\$17.08

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(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)

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Eleventh Revision of Sheet 195-5
Cancels Tenth Revision of Sheet 195-5

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

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 \$1.21861 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	
	Statistical coefficient:	0.14942	(C)
	Equivalent therms:	-50 x 0.14942 = -7.4710 therms	(C)
Total Warm Adjustment:	Equivalent therms:	-7.4710 therms	(C)
	Margin Rate:	\$0.68388	(I)
	Total WARM Adj.:	-7.4710 x \$0.68388 = (\$5.10927)	(R)
Total WARM Adjustment converted to cents per therm:	Total WARM Adj.	(\$5.10927)	(R)
	Monthly usage:	129 therms	
	Cent/therm Adj.:	(\$5.10927) / 129 = (\$0.03961)	(R)
Billing Rate per therm:	Current Rate/therm:	\$1.21861	(I)
	WARM cent/therm Adj.	(\$0.03961)	(R)
	WARM Billing Rate:	\$1.21861 + (\$0.03961) = \$1.17942	(I)
Total WARM Bill:	Customer Charge:	\$8.00	
	Usage Charge:	\$1.17942	(I)
	Total	(129 x \$1.17942) + \$8.00 = \$160.15	(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.

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Original Sheet 198-1

**SCHEDULE 198
RENEWABLE NATURAL GAS ADJUSTMENT MECHANISM**

(N)

PURPOSE:

The purpose of this Schedule is to identify adjustments to rates in the Rate Schedules listed below for the recovery of the revenue requirement of qualified investments, as defined by ORS 757.392(5), in renewable natural gas (RNG) infrastructure.

This adjustment mechanism will recover the revenue requirement associated with the prudently incurred qualified investments that contribute to the Company meeting the targets set forth in ORS 757.396. For purposes of this Schedule, "qualified investment" has the meaning given that term in ORS 757.392. This Adjustment Schedule is implemented as an automatic adjustment clause as provided for under ORS 757.210 and Oregon Senate Bill 98 (2019) codified as ORS 757.396.

APPLICABLE:

To All Customers on the Rate Schedules of this Tariff listed below:

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

Application to Rates:

The per-therm Base Adjustment in the applicable Rate Schedules include the following adjustment:

	Sales Customers	All Customers	Effective Date:
Schedule 198 ongoing	\$0.00114	\$0.00082	November 1, 2022
Schedule 198 amortization of Lexington Deferral		\$0.00000	November 1, 2023

SPECIAL CONDITIONS:

1. The Company will file this Schedule by August 1 of each year as necessary to update all charges already included on this schedule as needed. Updating of charges will include updating for the relevant vintage of the revenue requirement for previously included investments and a true-up for actual costs and volumes of previously included costs. This updating of charges will be supported by a deferral application (Schedule 198 Deferral) that will apply to costs recovered through this Schedule 198. The amortization of the Schedule 198 Deferral amount will be subject to an earnings test deadband. Per Order No. 22-388, the deadband is set at at 50 basis points below and 50 basis points above authorized ROE.

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(continue to Sheet 198-2)

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NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Original Sheet 198-2

SCHEDULE 198
RENEWABLE NATURAL GAS ADJUSTMENT MECHANISM

(continued)

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2. In addition, the Company will file this Schedule on or before February 28 as necessary for proposed charges relating to new qualified investments in anticipation of the expected in-service date of the RNG project and providing time for stakeholder review.
3. The Company will provide in its Schedule 198 RNG project application filings a draft procedural schedule to accommodate stakeholder review and feedback, and may also include a technical workshop, depending on the size and complexity of the RNG project.
4. NW Natural will change rates under this schedule concurrent with annual Purchased Gas Adjustment on November 1.
5. NW Natural will propose a cost allocation methodology consistent with Commission guidance, including Order No. 22-388 and any subsequent Commission precedent. For the Lexington RNG project, costs are allocated in accordance with Order No. 22-388, including the costs associated with the project that NW Natural deferred consistent with that order ("Lexington Deferral").
6. For purposes of this Schedule, only applications for RNG Project(s) exceeding \$5 million individually or in aggregate will be eligible for recovery under this mechanism.
7. Within three years of the effective date of this tariff, NW Natural will convene a meeting with the parties in consolidated docket UG 411/UG 435 to meet and confer in good faith regarding a comprehensive review of Schedule 198. Any changes in Schedule 198 as a result of this review would apply prospectively to new RNG projects.
8. The provisions listed in the special conditions above may be modified if approved by the Commission.

QUALIFIED INVESTMENT COST RECOVERY:

The revenue requirement associated with qualified investments in RNG includes incremental depreciation expense, property and other taxes, return on investment, income taxes, operating and maintenance costs, and other costs relating to the Company's qualified investment. The capital structure and the cost of capital to be used in the calculation of return on rate base will be that adopted by the Commission in the Company's most recent general rate case.

(continue to Sheet 198-3)

(N)

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NORTHWEST NATURAL GAS COMPANY

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Original Sheet 198-3

SCHEDULE 198
RENEWABLE NATURAL GAS ADJUSTMENT MECHANISM

(continued)

(N)

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.

(N)

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Sixth Revision of Sheet 320-4
Cancels Fifth Revision of Sheet 320-4

SCHEDULE 320
OREGON LOW-INCOME ENERGY EFFICIENCY (OLIEE) PROGRAMS
(continued)

CAP Administration and Delivery Costs

Each Agency will be reimbursed from the OLIEE Account for administrative costs and direct program costs incurred by them in their administration and delivery of the OLIEE program. The Agency fee will be paid to each Agency along with the measure rebate payments. The Company will process measure rebate payments and Agency payments within thirty (30) days from the date the Company receives all completed documentation in support of such rebate request(s).

(C)

Annual Program Year Targets (households)

At the beginning of each Program Year, each participating Agency will be assigned a home completion target that supports the achievement of an annual program target. Agency targets may be adjusted from time to time throughout a Program Year, as necessary. Nothing precludes Agencies from serving more than the annual target of homes in any program year provided sufficient funds are available and approved by the Company. The Company will include the expected targets for the following year, by Agency, in the Annual Report.

Energy Efficiency Measures

Qualifying energy efficiency measures are: 1) energy efficiency measures recommended when the dwelling is modeled in the Energy Analyzer Software. All measures prescribed by the Energy Analyzer Software for the whole house, including (non-HSR) gas furnaces, must meet or exceed a Savings to Investment Ratio (SIR) of 1.0 or better unless identified through number 2 or 3 below. The SIR calculation will use the Energy Information Administration's Oregon residential natural gas price as the cost against which the benefits are measured. 2) The replacement of non-functioning or red-tagged heating equipment with a high efficiency gas furnace. Heating equipment is considered red-tagged when a representative from the Company or an Agency has deemed the appliance unsafe to operate. 3) Measures, including smart thermostats, attic insulation and wall insulation, identified as cost effective by third party organizations (Regional Technical Forum, Energy Trust of Oregon, etc.).

(T)

(T)

The OLIEE payments may not exceed \$21,600 per dwelling, as indicated in the following table.

(T)

Expense category	
Weatherization Only	\$10,000
Heating Equipment Only	\$5,000
HSR Cost Allocation	\$1,000
Administrative Cost Allocation	\$1,600
Flexible funds to supplement EE measures, HSR and Administrative costs (\$1,500 reserved for HSR to the extent there are HSR costs)	\$4,000
Reimbursement per dwelling	\$21,600

(N)

(T)(C)

To accommodate timing differences between measure installations, the payment may be disbursed through one or more requests. Under no circumstances will the payment exceed the actual installed cost of the measure(s). The Company may coordinate with other funders (eg Energy Trust of Oregon) to facilitate payments and appropriate reporting of measures.

(continue to Sheet 320-5)

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P.U.C. Or. 25

Fourth Revision of Sheet 320-5
Cancels Third Revision of Sheet 320-5

SCHEDULE 320 OREGON LOW-INCOME ENERGY EFFICIENCY (OLIEE) PROGRAMS (continued)

Health, Safety and Repair (HSR) Allowance

In addition to funds for qualifying energy efficiency measures, funds may be available for the costs of health, safety and repair (HSR) measures. HSR measures are those items that if not completed would adversely impact the safety and health of the occupants or the effectiveness of the energy efficiency measures. Standard efficiency furnace replacements may qualify for HSR funds if the existing furnace is broken, is found to produce an unsafe level of CO emissions, is back-drafting, or has a cracked heat exchanger and it is physically impossible to install a high-efficiency furnace. When a furnace is replaced with a standard efficiency furnace, the Agency must demonstrate why the furnace required replacement, and why a high efficiency furnace could not be installed.

(C)
(T)
(T)

Agency Reporting Requirements

For each home treated under the OLIEE Program, each Agency will be required to report to the Company, the following information:

(D)

- Customer Name (as shown on NW Natural Account)
- NWN Account Number
- Service Address
- Owner, Occupant or Property Manager Name
- Owner, Occupant or Property Manager Phone Number
- Audit Date
- Measure Completion Date
- Reimbursement Request Date
- Agency and Agency Representative
- Size of home in square feet and Year Built
- Measure description
- Installed cost per measure
- Estimated therm savings per measure
- Energy Analyzer Software SIR per measure
- Total Energy Analyzer Software SIR for
- Measure Group
- Total Cost of all energy efficiency measures installed (EEMC)
- Total Energy Analyzer Software estimated savings for each household (Total therms)
- Total job cost to Agency (OLIEE and non-OLIEE measure costs)
- Cost per measure
- Fuel cost savings per measures
- Total HSR measure cost
- Total Reimbursement Request: (energy efficiency measure costs up to annual limit + Admin + HSR)
- Prior 12 months of gas usage
- Projected savings as a percentage of the last 12 months gas usage

(continue to Sheet 320-6)

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