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August 30, 2013

NWN Advice No. WUTC 13-4 /UG _____

VIA ELECTRONIC FILING

Steven V. King, Executive Director and Secretary
WASHINGTON UTILITIES &
TRANSPORTATION COMMISSION
1300 S Evergreen Park Drive, SW
Post Office Box 47250
Olympia, Washington 98504-7250

Re: Annual Purchased Gas Cost Adjustment; Deferred Gas Cost Amortization Adjustments; and other Non-Gas Cost Amortization Adjustments

Northwest Natural Gas Company, dba NW Natural (NWN or the "Company") files revisions to its Tariff WN U-6, as listed in the attached Table of Tariff Sheet Revisions. The proposed tariff sheets are stated to become effective with service on and after November 1, 2013.

I. Introduction and Summary

The purposes of this filing are to revise rates for (a) the effects of changes in purchased gas costs, and (b) for the further effects of applying and removing temporary rate adjustments to amortize balances in deferred accounts. The Company revises rates for both of these purposes annually; the last such filing was effective on November 1, 2012.

The combined effect of the proposed rate changes is to increase the average monthly bills in the primary rate schedules as follows: Residential bills will increase by 1.2% and commercial bills will increase 1.1%. If the effects of the temporary rate adjustments were permanent, the combined result of all components of the rate changes would be an increase in the Company's revenues from its Washington operations of \$1,389,196.

II. Purchased Gas Cost Adjustment

This portion of the filing will: (a) pass through changes in the cost of gas purchased by the Company from its natural gas suppliers; and (b) pass through changes in the cost of pipeline and storage capacity under contract with the Company's pipeline transporters.

Including revenue sensitive effects, the proposed Annual Sales Weighted Average Cost of Gas (WACOG) is \$0.40076 per therm; the proposed Winter Sales Weighted Average Cost of Gas is \$0.40021; the proposed firm service pipeline capacity cost is \$0.13961 per therm, and the proposed interruptible service pipeline capacity cost is \$0.04876. The net effect of the combined purchased gas adjustments in this filing is an increase of \$0.01339 per

therm for firm sales rate schedules and an increase of \$0.01390 per therm for interruptible sales rate schedules.

Should there be a subsequent change in the pipeline's rates or other gas supply costs from levels used to determine the adjustments the Company proposes in this filing, then the Company will reflect such changes to Washington gas customers in a manner approved by the Commission.

III. Temporary Rate Adjustments

This portion of the filing is to make periodic technical adjustments to rates under the terms of the Company's tariffs in order to amortize credit or debit balances in its deferred gas cost accounts (Account 191) and other non-gas cost accounts (Account 186). These adjustments are shown in the Supporting Materials as the removal of current temporary rate adjustments and the application of new temporary rate adjustments.

Collections and refunds under the temporary rate adjustments do not affect the Company's earnings because the accruals to these accounts already have been reflected in recorded results.

The new temporary adjustments include the following:

1. A 12-month amortization of refund balances in accounts 191.420 and 191.421. The balance in 191.420 relates to commodity gas costs incurred during the current PGA period that began on November 1, 2012. The refund balance in account 191.421 is the remaining unamortized amount from a consolidation of commodity-related amortization accounts.
2. A 12-month amortization of balances in accounts 191.430, 191.431 and 254.302. The refund balance in 191.430 represents the amount the Company collected from its Washington customers during the past year that exceeded the amount incurred by the Company for demand charges. Account 191.431 is the remaining unamortized amount from a consolidation of demand-related deferred accounts. Account 254.302 relates to the deferral of storage-related off system sales.
3. A 12-month amortization of collection balances in account 186.234. The balance in 186.234 relates to the Schedule J "Gas Residential Energy Assistance" Tariff (GREAT), which is the Company's low-income bill payment assistance program. Account 186.235 is the remaining unamortized amount from this schedule from the prior year.
4. A 12-month amortization of collection balances in accounts 186.310 and 186.312. The balance in 186.310 relates to the general administration of Schedule G and the balance in account 186.312 relates to the programs offered by the Energy Trust of Oregon under Schedule G "Energy Efficiency Services and Programs – Residential and Commercial." Account 186.316 is the remaining unamortized amount from this schedule from the prior year.
5. A 12-month amortization of collection balances in account 186.314. The balance in 186.314 relates to the Schedule I "Washington Low Income Energy Efficiency Tariff

(WALIEE), which is the Company's low-income energy efficiency program. Account 186.315 is the remaining unamortized amount from this schedule from the prior year.

The removal of the temporary adjustments that were placed into rates effective November 1, 2012 is also reflected in this portion of the filing.

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

In accordance with WAC 480-90-198, the Company declares that notice to customers is made in accordance with WAC 480-90-194(5). A copy of this notice is included with this filing.

This rate change affects all of NW Natural's Washington customers. NW Natural currently serves approximately 66,460 residential customers and 5,632 business and industrial customers in the Company's Washington service territory.

The Company respectfully requests that the tariff sheets filed herewith be approved to become effective with service on and after November 1, 2013.

As required by WAC 480-80-103(4)(a), I certify that I have authority to issue tariff revisions on behalf of NW Natural.

Copies of this letter and the attached filing are available in the Company's main office in Portland, Oregon, and on its website at www.nwnatural.com.

Please address correspondence on this matter to me at ork@nwnatural.com, with copies to the following:

Kelley C. Miller, Rates Specialist
Rates & Regulatory Affairs
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Sincerely,

NW NATURAL

/s/ Onita R. King

Onita R. King
Rates & Regulatory Affairs
Attachments: Supporting Materials



Is your home wasting energy? **WEATHERIZE!**



Many homes waste up to 35 percent of the energy they use, but your home doesn't have to be one of them.

Weatherizing by upgrading the insulation or windows in your home is a great way to lower

your energy use, save money on energy costs and make your home cozy.

As a NW Natural customer, cash incentives from Energy Trust of Oregon can offset the cost of weatherization improvements.* Energy Trust can also connect you with qualified weatherization

contractors that can do the work and help you with incentive applications.

To learn how to get started, visit Energy Trust of Oregon at energytrust.org/weatherize or call **866-368-7878**.



* Incentives are subject to qualifications and funding availability and may change.

NW NATURAL FILES for annual rate adjustment

Each summer, NW Natural files for rate changes, based primarily on the wholesale cost of natural gas, plus some annual adjustments based on ongoing agreements with the Washington Utilities and Transportation Commission.

If the Commission approves the proposed rate change as submitted, Washington residential customers will see about a 1.2 percent increase in rates, or approximately \$0.67 a month for the average home. The increase for the average Washington commercial customer will be about 1.1 percent, or about \$3.08 a month.

NW Natural will update the proposed rate changes for final approval by the WUTC in mid-October. The new rates

will be in effect for the year beginning November 1.

About gas prices

In recent years, the abundance of new natural gas supplies entering the market has brought tremendous savings to gas customers, allowing NW Natural to lower rates four times in a row – **saving customers about \$400 million**.

A small uptick in market prices this year – from prices that reached 10-year lows in 2012 – was driven in large part by power producers switching from coal to natural gas for electric generation.

The good news is that the market looks fairly stable going forward. At this point, industry experts forecast minor

The proposed November 1 rate change includes an adjustment for cost recovery of energy efficiency programs offered to customers through the Energy Trust of Oregon. By itself, the effect of this filing on the average residential customer would be a 1 percent increase, or about \$0.56 per month. For the average commercial Schedule 3 customer it would be a 0.9 percent increase, or about \$2.38 per month. This increase is largely offset by the higher gas cost decreases included in the rate adjustment filing.

year-to-year adjustments but no major swings for the immediate future.

Next steps

Regulators will rule on the proposed rate changes in late October. Look for information in a future issue of the Comfort Zone or visit the Rates & Regulations section of nwnatural.com.

HIGH-EFFICIENCY FURNACE OFFER

Is your heating system old, inefficient and frequently needing repairs? If so, upgrade to a new high-efficiency natural gas furnace today. Avoid the inconvenience of equipment breakdowns this winter and save money in lower energy bills for years to come.

Don't wait. Take advantage of **up to \$500** in rebates and tax credits that go away at year-end. Call **800-WARM-123** or visit the Special Offers section of nwnatural.com for details.

FALL HEARTH OFFER

Enjoy the benefits of a warm, wonderful fire with the flip of a switch. Installing a natural gas fireplace just became more affordable thanks to rebates and incentives available through the end of the year. Get **up to \$550 back** when you act before December 31, and forget the hassle of hauling and chopping wood.

For more information, visit the Special Offers section of nwnatural.com.



TABLE OF TARIFF SHEET REVISIONS
PROPOSED TO BECOME EFFECTIVE NOVEMBER 1, 2013

PROPOSED REVISION	CANCELS REVISION	SCHEDULE TITLE
Effective November 1, 2013	Effective November 1, 2012	Summary of Monthly Sales Service Billing Rates
Effective November 1, 2013	Effective November 1, 2012	Summary of Monthly Transportation Service Billing Rates
Twenty-Second Revision of Sheet 101.1	Twenty-First Revision of Sheet 101.1	Schedule 1 "General Sales Service"
Twenty-Second Revision of Sheet 102.1	Twenty-First Revision of Sheet 102.1	Schedule 2 "Residential Sales Service"
Tenth Revision of Sheet 103.3	Ninth Revision of Sheet 103.3	Schedule 3 "Basic Firm Sales Service – Non-Residential (continued)"
Twenty-Second Revision of Sheet 127.1	Twenty-First Revision of Sheet 127.1	Schedule 27 "Residential Heating Dry-Out Service"
Eighth Revision of Sheet 141.9	Seventh Revision of Sheet 141.9	Schedule 41 "Non-Residential Sales and Transportation Service (continued)"
Third Revision of Sheet 141.10	Second Revision of Sheet 141.10	Schedule 41 "Non-Residential Sales and Transportation Service (continued)"
Ninth Revision of Sheet 142.10	Eighth Revision of Sheet 142.10	Schedule 42 "Large Volume Non-Residential Sales and Transportation Service (continued)"
Fourth Revision of Sheet 142.10.1	Third Revision of Sheet 142.10.1	Schedule 42 "Large Volume Non-Residential Sales and Transportation Service (continued)"
Eighth Revision of Sheet 142.11	Seventh Revision of Sheet 142.11	Schedule 42 "Large Volume Non-Residential Sales and Transportation Service (continued)"
Eighth Revision of Sheet 143.6	Seventh Revision of Sheet 143.6	Schedule 43 "High-Volume Non-Residential Firm and Interruptible Transportation Service (continued)"
Nineteenth Revision of Sheet 201.1	Eighteenth Revision of Sheet 201.1	Schedule 201 "Temporary (Technical) Adjustments to Rates"
Tenth Revision of Sheet 201.2	Ninth Revision of Sheet 201.2	Schedule 201 "Temporary (Technical) Adjustments to Rates (continued)"
Twenty-First Revision of Sheet 203.1	Twentieth Revision of Sheet 203.1	Schedule 203 "Purchased Gas Cost Adjustments to Rates"

Third Revision of Sheet 210.1	Second Revision of Sheet 210.1	Schedule 210 "Adjustment to Rates for Property Sales"
Fifth Revision of Sheet 230.1	Fourth Revision of Sheet 230.1	Schedule 230 "Temporary Adjustments to Rates For Low-Income Programs"
Third Revision of Sheet 230.2	Second Revision of Sheet 230.2	Schedule 230 "Temporary Adjustments to Rates For Low-Income Programs"

WASHINGTON

SUMMARY OF MONTHLY SALES SERVICE BILLING RATES

**EFFECTIVE:
November 1, 2013**

<p>SCHEDULE 1 GENERAL SALES SERVICE</p>	<p>SCHEDULE 2 RESIDENTIAL SALES SERVICE</p>	<p>SCHEDULE 3 BASIC FIRM SALES SERVICE</p>	<p>SCHEDULE 10 SPECIAL METERING EQUIPMENT</p>	
<p>Usage Charges: Customer Charge \$3.47 Res'l Usage Charge (per therm): \$1.22951 Com'l Usage Charge (per therm): \$1.21979 Minimum Monthly Bill \$3.47</p>	<p>Usage Charges: Customer Charge \$7.00 All therms \$0.94244 Minimum Monthly Bill \$7.00</p>	<p>Usage Charges: Customer Charge \$15.00 Commercial All therms \$0.94320 Industrial All therms \$0.92310 Minimum Monthly Bill \$15.00</p>	<p>Meter Size: First 150 CF/hr./mo. Capacity \$0.40628 Next 800 CF/hr./mo. Capacity \$0.00165 +minimum monthly rental charge All add'l CF/hr./mo. Capacity \$0.00241 +minimum monthly rental charge Minimum Monthly Rental \$0.40628 Charge for Meter Reading \$0.36</p>	
<p>SCHEDULE 27 RESIDENTIAL HEATING DRY-OUT SERVICE</p>	<p>SCHEDULE 41 NON-RESIDENTIAL SALES SERVICE</p>	<p>SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL FIRM SALES SERVICE</p>	<p>SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL INTERRUPTIBLE SALES SERVICE</p>	<p>OTHER CHARGES:</p>
<p>Usage Charge: Customer Charge \$6.00 Per therm, all therms \$0.77644 Minimum Monthly Bill \$6.00</p>	<p>Customer Charge: \$250.00 Volumetric Charges: Commercial Firm Service: 1st 2,000 therms: \$0.68165 All additional therms: \$0.64367 Industrial Firm Service: 1st 2,000 therms: \$0.66635 All additional therms: \$0.63019 Plus Pipeline Capacity Charges*: Firm (MDDV): \$2.08 Firm (per therm): \$0.13961 Commercial Interruptible Service: 1st 2,000 therms: \$0.69916 All additional therms: \$0.66127 Industrial Interruptible Service: 1st 2,000 therms: \$0.68446 All additional therms: \$0.64832 Plus Pipeline Capacity Charge (per therm): \$0.04876 Minimum Monthly Bill: Customer Charge, plus Volumetric Charges, plus applicable Pipeline Capacity Charge.</p>	<p>Customer Charge: \$1,300.00 Commercial Volumetric Charges: 1st 10,000 therms: \$0.49212 Next 20,000 therms: \$0.47849 Next 20,000 therms: \$0.45138 Next 100,000 therms: \$0.43352 Next 600,000 therms: \$0.40973 All additional therms: \$0.37998 Industrial Volumetric Charges: 1st 10,000 therms: \$0.48230 Next 20,000 therms: \$0.46969 Next 20,000 therms: \$0.44462 Next 100,000 therms: \$0.42813 Next 600,000 therms: \$0.40614 All additional therms: \$0.37862 Plus Storage Charge (per MDDV) \$0.20415 Distribution Capacity Chg. (MDDV) \$0.15748 Firm Pipeline Capacity Charges*: Per MDDV: \$2.08 Per therm: \$0.13961 Minimum Monthly Bill: Customer Charge, plus Volumetric Charges, plus applicable Pipeline Capacity Charge, plus the Storage and Distribution Charges.</p>	<p>Customer Charge: \$1,300.00 Volumetric Charges: Industrial 1st 10,000 therms: \$0.50036 Next 20,000 therms: \$0.48782 Next 20,000 therms: \$0.46283 Next 100,000 therms: \$0.44639 Next 600,000 therms: \$0.42446 All additional therms: \$0.39706 Volumetric Charges: Commercial 1st 10,000 therms: \$0.50571 Next 20,000 therms: \$0.49258 Next 20,000 therms: \$0.46648 Next 100,000 therms: \$0.44931 Next 600,000 therms: \$0.42641 All additional therms: \$0.39779 Plus Pipeline Capacity Chg. per therm: \$0.04876 Plus Storage Charge per MDDV: \$0.10208 Minimum Monthly Bill: Customer Charge, plus Volumetric Charges, plus Pipeline Capacity Charge, plus Storage Charge.</p>	<p>Telemetry Charge (per month) \$127.00 Standard Unauthorized Use: \$ 2.00/th Unauthorized Use - Violation of Curtailment Order \$10.00/th</p>

RATE SUMMARY



WASHINGTON

SUMMARY OF MONTHLY TRANSPORTATION SERVICE BILLING RATES

**EFFECTIVE:
November 1, 2013**

SCHEDULE 41 NON-RESIDENTIAL TRANSPORTATION SERVICE	SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL FIRM TRANSPORTATION SERVICE	SCHEDULE 43 HIGH-VOLUME NON-RESIDENTIAL TRANSPORTATION SERVICE	<u>OTHER CHARGES:</u>
Customer Charge: \$250.00 Transportation Charge: \$250.00	Customer Charge: \$1,300.00 Transportation Charge: \$250.00	Customer Charge: \$38,000.00 Transportation Charge: \$250.00	Monthly Telemetry Charge: \$127.00 Standard Unauthorized Use: \$2.00/th Unauthorized Use - Violation of Curtailment Order: \$10.00/th Annual Sales WACOG: \$0.40076 Winter Sales WACOG: \$0.40021
Volumetric Charges: 1st 2,000 therms: \$0.29891 All additional therms: \$0.26336	Volumetric Charges: 1st 10,000 therms: \$0.11740 Next 20,000 therms: \$0.10509 Next 20,000 therms: \$0.08058 Next 100,000 therms: \$0.06447 Next 600,000 therms: \$0.04298 All additional therms: \$0.01611	Volumetric Charges: All therms: \$0.00496	
Minimum Monthly Bill: \$500.00	Firm Distribution Capacity Chg. (MDDV) \$0.15748	If Firm Service, ADD: Distribution Capacity Chg. (MDDV) \$0.15748	
	Minimum Monthly Bill: \$1,550.00 Plus for Firm Service: Distribution Capacity Charge	Minimum Monthly Bill: \$38,250.00 Plus for Firm Service: Distribution Capacity Charge	
	SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL INTERRUPTIBLE TRANSPORTATION SERVICE	<u>PENALTY CHARGES:</u>	
	Customer Charge: \$1,300.00 Transportation Charge: \$250.00	Balancing Charge (excess over 5%) \$1.00/therm Entitlement Overrun Charges: Excess < threshold + 2% \$0.50/therm Excess > threshold + 2% \$1.00/therm Entitlement Underrun Charges: 5% to 10% \$0.50/therm Over 10% \$1.00/therm Underrun not cleared \$1.00/therm	
	Volumetric Charges: 1st 10,000 therms: \$0.11746 Next 20,000 therms: \$0.10515 Next 20,000 therms: \$0.08063 Next 100,000 therms: \$0.06451 Next 600,000 therms: \$0.04301 All additional therms: \$0.01612 Minimum Monthly Bill: \$1,550.00		



Issued August 30, 2013
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and after November 1, 2013

RATE SUMMARY

NORTHWEST NATURAL GAS COMPANY

WN U-6

Twenty-Second Revision of Sheet 101.1

Cancels Twenty-First Revision of Sheet 101.1

RATE SCHEDULE 1 GENERAL SALES SERVICE

AVAILABLE:

To all Residential and Commercial Customer classes in all territory served by the Company under the Tariff of which this Rate Schedule is a part, except that service under this Rate Schedule is not available for Standby Service to Commercial Customers. Seasonal or temporary Discontinuance 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 E**.

SERVICE DESCRIPTION:

Service under this Rate Schedule is Firm Sales Service to gas-fired equipment, including but not limited to one or any multiple or combination of the following:

- (a) Non-ducted space heating equipment that does not qualify as primary heating systems under Rate Schedule 2, including but not limited to fireplace inserts, free standing gas stoves, and room heaters;
- (b) Supplemental or Standby space heating equipment including but not limited to natural gas back-up to electric heat pumps, used in residential applications;
- (c) Water heating equipment used to serve single-family residential swimming pools, spas, and hot tubs;
- (d) Other equipment including, but not limited to, log lighter, gas log, gas barbecue, tiki torch, Bunsen burner, Domestic cooking equipment, hobby kilns, refrigeration or Domestic clothes drying;
- (e) Equipment installed for use in detached garages, shops, or outbuildings.

MONTHLY RATE: Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to charges for purchased gas costs and technical rate adjustments.

	Base Rate	Pipeline Capacity Rate	Commodity Rate	Temporary Adjustment	Billing Rate
Customer Charge	\$3.47	----	----	----	\$3.47
Volumetric Charge (per therm)					
Residential	\$0.68370	\$0.13961	\$0.40076	\$0.00544	\$1.22951
Commercial	\$0.68341	\$0.13961	\$0.40076	\$(0.00399)	\$1.21979

(I)

(I)

Minimum Monthly Bill: Customer Charge, plus charges under **SCHEDULE C** and **SCHEDULE 10** (if applicable)

(continue to Sheet 101.2)

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Twenty-Second Revision of Sheet 102.1

Cancels Twenty-First Revision of Sheet 102.1

RATE SCHEDULE 2 RESIDENTIAL SALES SERVICE

AVAILABLE:

To Residential Customers, in all territory served by the Company under the Tariff of which this Rate Schedule is a part. Seasonal or temporary Discontinuance 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, are subject to the provisions of **SCHEDULE E**.

SERVICE DESCRIPTION:

Service under this Rate Schedule is Firm Sales Service to gas-fired equipment used in Residential dwellings that provide complete family living facilities in which the occupant normally cooks, eats, sleeps, and carries on the household operations incident to Domestic life, for at least one of the following purposes:

- (a) Operation of ducted forced air Natural Gas space heating equipment that is the primary source for space heating requirements;
- (b) Operation of a gas-fired hearth product or wall heater as the primary source for space heating requirements where the hearth or wall heater has a verified nameplate rating of 20,000 BTUs or greater, and is installed in a primary residence defined as a dwelling that is occupied year-round, and where that dwelling is 1,500 square feet or less; and, or
- (c) Operation of fully automatic water heating equipment for primary water heating requirements.

Service under this Rate Schedule includes the use of gas for equipment installed in addition to (a) and (b).

MONTHLY RATE: Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

	Base Rate	Pipeline Capacity Rate	Commodity Rate	Temporary Adjustment	Billing Rate
Customer Charge:	\$7.00	---	---	---	\$7.00
Volumetric Charge (per therm)	\$0.41405	\$0.13961	\$0.40076	\$(0.01198)	\$0.94244

(I)

Minimum Monthly Bill: Customer Charge, plus charges under **SCHEDULE C** and **SCHEDULE 10** (if applicable)

(continue to Sheet 102.2)

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6 Tenth Revision of Sheet 103.3
 Cancels Ninth Revision of Sheet 103.3

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

MONTHLY RATE: Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

FIRM SALES SERVICE CHARGES (03 SF):						Billing Rates [1]
Customer Charge (per month):						\$15.00
	Base Rate		Pipeline Capacity	Commodity Component [2]	Temporary Adjustment	
Volumetric Charges (per therm):						
Commercial	\$0.41814		\$0.13961	\$0.40076	\$(0.01531)	\$0.94320
Industrial	\$0.41806		\$0.13961	\$0.40076	\$(0.03533)	\$0.92310
Standby Charge (per therm of MHDV) [3]:						\$5.00

(I)

(I)

[1] **SCHEDULE C** and **SCHEDULE 10** Charges shall apply, if applicable.

[2] The Commodity Component will be either Annual Sales WACOG or Monthly Incremental Cost of Gas.

[3] Applies to Standby Sales Service only.

Minimum Monthly Bill. The Minimum Monthly Bill shall be any **SCHEDULE C** and **SCHEDULE 10** Charges, plus:

- (a) **Firm Sales Service.** Customer Charge
- (b) **Firm Sales Standby Service.** Customer Charge, plus Standby Service Charge

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NORTHWEST NATURAL GAS COMPANY

WN U-6

Twenty-Second Revision of Sheet 127.1

Cancels Twenty-First Revision of Sheet 127.1

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 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 more 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 1** or **SCHEDULE 2**, whichever is applicable.

MONTHLY RATE: Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to charges for purchased gas costs and technical rate adjustments.

	Base Rate	Pipeline Capacity Rate	Commodity Rate	Temporary Adjustment	Billing Rate
Customer Charge:					\$6.00
Volumetric Charge (per therm)					
All therms	\$0.25386	\$0.13961	\$0.40076	\$(0.01779)	\$0.77644

(I)

Minimum Monthly Bill: Customer Charge, plus charges under **SCHEDULE C** and **SCHEDULE 10** (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 and by all rules and regulations prescribed by regulatory authorities, as amended from time to time.

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Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Eighth Revision of Sheet 141.9

Cancels Seventh Revision of Sheet 141.9

RATE SCHEDULE 41 NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE (continued)

MONTHLY RATES FOR COMMERCIAL CUSTOMER CLASS:

Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. **SEE SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

FIRM SALES SERVICE CHARGES (C41SF) [1]:					Billing Rates
Customer Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate		Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.30130		\$0.40076	\$(0.02041)	\$0.68165
Block 2: All additional therms	\$0.26549		\$0.40076	\$(0.02258)	\$0.64367
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.13961
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$2.08
INTERRUPTIBLE SALES SERVICE CHARGES (C41SI) [1]:					
Customer Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate		Commodity Component: [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.30108		\$0.40076	\$(0.00268)	\$0.69916
Block 2: All additional therms	\$0.26527		\$0.40076	\$(0.00476)	\$0.66127
Plus: Interruptible Pipeline Capacity Charge - Volumetric (per therm):					\$0.04876
FIRM TRANSPORTATION SERVICE CHARGES (C41TF):					
Customer Charge (per month):					\$250.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate			Total Temporary Adjustments [4]	
Block 1: 1 st 2,000 therms	\$0.30077			\$(0.00186)	\$0.29891
Block 2: All additional therms	\$0.26500			\$(0.00164)	\$0.26336

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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 10.

[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 201 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 201 may also apply.

(continue to Sheet 141.10)

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Third Revision of Sheet 141.10

Cancels Second Revision of Sheet 141.10

RATE SCHEDULE 41 NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE (continued)

MONTHLY RATES FOR INDUSTRIAL CUSTOMER CLASS:

Effective: November 1, 2013

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The rates shown in this Rate Schedule may not always reflect actual billing rates. **SEE SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

FIRM SALES SERVICE CHARGES (I41SF) [1]:					Billing Rates
Customer Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate		Commodity Component [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.30133		\$0.40076	\$(0.03574)	\$0.66635
Block 2: All additional therms	\$0.26551		\$0.40076	\$(0.03608)	\$0.63019
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.13961
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$2.08
INTERRUPTIBLE SALES SERVICE CHARGES (I41SI) [1]:					
Customer Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate		Commodity Component: [2]	Total Temporary Adjustments [3]	
Block 1: 1 st 2,000 therms	\$0.30108		\$0.40076	\$(0.01738)	\$0.68446
Block 2: All additional therms	\$0.26527		\$0.40076	\$(0.01771)	\$0.64832
Plus: Interruptible Pipeline Capacity Charge - Volumetric (per therm):					\$0.04876
FIRM TRANSPORTATION SERVICE CHARGES (I41TF):					
Customer Charge (per month):					\$250.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate			Total Temporary Adjustments [4]	
Block 1: 1 st 2,000 therms	\$0.30077			\$(0.00186)	\$0.29891
Block 2: All additional therms	\$0.26500			\$(0.00164)	\$0.26336

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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 10.

[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 201 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 201 may also apply.

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Ninth Revision of Sheet 142.10

Cancels Eighth Revision of Sheet 142.10

RATE SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE (continued)

MONTHLY SALES RATES - FIRM SERVICE:

Effective: November 1, 2013

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

FIRM SALES SERVICE CHARGES [1]:				Billing Rates
Customer Charge (per month, all service types):				\$1,300.00
	Base Rate	Commodity Component [2]	Total Temporary Adjustments [3]	
42 CSF Volumetric Charges (per therm):				
Block 1: 1 st 10,000 therms	\$0.11854	\$0.40076	\$(0.02718)	\$0.49212
Block 2: Next 20,000 therms	\$0.10611	\$0.40076	\$(0.02838)	\$0.47849
Block 3: Next 20,000 therms	\$0.08138	\$0.40076	\$(0.03076)	\$0.45138
Block 4: Next 100,000 therms	\$0.06510	\$0.40076	\$(0.03234)	\$0.43352
Block 5: Next 600,000 therms	\$0.04340	\$0.40076	\$(0.03443)	\$0.40973
Block 6: All additional therms	\$0.01627	\$0.40076	\$(0.03705)	\$0.37998
42 ISF Volumetric Charges (per therm):				
Block 1: 1 st 10,000 therms	\$0.11851	\$0.40076	\$(0.03697)	\$0.48230
Block 2: Next 20,000 therms	\$0.10608	\$0.40076	\$(0.03715)	\$0.46969
Block 3: Next 20,000 therms	\$0.08135	\$0.40076	\$(0.03749)	\$0.44462
Block 4: Next 100,000 therms	\$0.06508	\$0.40076	\$(0.03771)	\$0.42813
Block 5: Next 600,000 therms	\$0.04340	\$0.40076	\$(0.03802)	\$0.40614
Block 6: All additional therms	\$0.01626	\$0.40076	\$(0.03840)	\$0.37862
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):				\$0.13961
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV per month):				\$2.08

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- [1] For Firm Sales Service, the Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Distribution Capacity Charge, plus the Storage Capacity Charge, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 10.
- [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 201 may not apply.

(continue to Sheet 142.10.1)

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Fourth Revision of Sheet 142.10.1

Cancels Third Revision of Sheet 142.10.1

RATE SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE (continued)

MONTHLY SALES RATES – INTERRUPTIBLE SERVICE:

Effective: November 1, 2013

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

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INTERRUPTIBLE SALES SERVICE CHARGES [4]: (C42SI)					Billing Rates
Customer Charge (per month):					\$1,300.00
	Base Rate		Commodity Component [2]	Total Temporary Adjustments [3]	
Volumetric Charges (per therm):					
Block 1: 1 st 10,000 therms	\$0.11842		\$0.40076	\$(0.01347)	\$0.50571
Block 2: Next 20,000 therms	\$0.10599		\$0.40076	\$(0.01417)	\$0.49258
Block 3: Next 20,000 therms	\$0.08128		\$0.40076	\$(0.01556)	\$0.46648
Block 4: Next 100,000 therms	\$0.06502		\$0.40076	\$(0.01647)	\$0.44931
Block 5: Next 600,000 therms	\$0.04335		\$0.40076	\$(0.01770)	\$0.42641
Block 6: All additional therms	\$0.01626		\$0.40076	\$(0.01923)	\$0.39779
Interruptible Pipeline Capacity Charge (per therm):					\$0.04876
Interruptible Sales Service Storage Charge (per therm of MDDV per month)					\$0.10208
INTERRUPTIBLE SALES SERVICE CHARGES [4]: (I42SI)					
Customer Charge (per month):					\$1,300.00
Volumetric Charges (per therm)					
Block 1: 1 st 10,000 therms	\$0.11842		\$0.40076	\$(0.01882)	\$0.50036
Block 2: Next 20,000 therms	\$0.10600		\$0.40076	\$(0.01894)	\$0.48782
Block 3: Next 20,000 therms	\$0.08129		\$0.40076	\$(0.01922)	\$0.46283
Block 4: Next 100,000 therms	\$0.06503		\$0.40076	\$(0.01940)	\$0.44639
Block 5: Next 600,000 therms	\$0.04335		\$0.40076	\$(0.01965)	\$0.42446
Block 6: All additional therms	\$0.01626		\$0.40076	\$(0.01996)	\$0.39706
Interruptible Pipeline Capacity Charge (per therm):					\$0.04876
Interruptible Sales Service Storage Charge (per therm of MDDV per month)					\$0.10208

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- [2] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 201 may also apply.
- [3] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 201 may not apply.
- [4] For Interruptible Sales Service, the Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge, plus any other charges that apply from Schedule C or Schedule 10.

(continue to Sheet 142.11)

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Eighth Revision of Sheet 142.11

Cancels Seventh Revision of Sheet 142.11

RATE SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL SALES AND TRANSPORTATION SERVICE (continued)

MONTHLY TRANSPORTATION RATES:

Effective: November 1, 2013

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **SCHEDULE 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

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FIRM TRANSPORTATION SERVICE CHARGES (I42TF and C42TF) [1]:					Billing Rates
Customer Charge (per month):					\$1,300.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate			Total Temporary Adjustments [2]	
Block 1: 1 st 10,000 therms	\$0.11818			\$(0.00078)	\$0.11740
Block 2: Next 20,000 therms	\$0.10579			\$(0.00070)	\$0.10509
Block 3: Next 20,000 therms	\$0.08112			\$(0.00054)	\$0.08058
Block 4: Next 100,000 therms	\$0.06490			\$(0.00043)	\$0.06447
Block 5: Next 600,000 therms	\$0.04327			\$(0.00029)	\$0.04298
Block 6: All additional therms	\$0.01622			\$(0.00011)	\$0.01611
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					\$0.15748
INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (I42TI and C42TI) [3]:					
Customer Charge (per month):					\$1,300.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate			Temporary Adjustments [2]	
Block 1: 1 st 10,000 therms	\$0.11818			\$(0.00072)	\$0.11746
Block 2: Next 20,000 therms	\$0.10579			\$(0.00064)	\$0.10515
Block 3: Next 20,000 therms	\$0.08112			\$(0.00049)	\$0.08063
Block 4: Next 100,000 therms	\$0.06490			\$(0.00039)	\$0.06451
Block 5: Next 600,000 therms	\$0.04327			\$(0.00026)	\$0.04301
Block 6: All additional therms	\$0.01622			\$(0.00010)	\$0.01612

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[1] For Firm Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus the Distribution Capacity Charge, plus any other charges that may apply from Schedule C or Schedule 10.

[2] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 201 may also apply.

[3] For Interruptible Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus any other charges that may apply from Schedule C or Schedule 10.

Issued August 30, 2013
NWN WUTC Advice No. 13-XX

Effective with service on
and after November 1, 2013

NORTHWEST NATURAL GAS COMPANY

WN U-6

Eighth Revision of Sheet 143.6

Cancels Seventh Revision of Sheet 143.6

RATE SCHEDULE 43 HIGH VOLUME NON-RESIDENTIAL FIRM AND INTERRUPTIBLE TRANSPORTATION SERVICE (continued)

MONTHLY RATE:

Effective November 1, 2013 (T)

The rates shown below may not always reflect actual billing rates. See **Schedule 200** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments.

FIRM TRANSPORTATION SERVICE CHARGES (C43TF and I43TF)				
				Billing Rates
Customer Charge:				\$38,000.00
Transportation Charge:				\$250.00
Volumetric Charge		Base Rate	Total Temporary Adjustment [1]	
Per therm, all therms		\$0.00499	\$(0.00003)	\$0.00496
Firm Service Distribution Capacity Charge: Per therm of MDDV per month				\$0.13961
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 10 .				

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INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (C43TI and I43TI)				
				Billing Rates
Customer Charge:				\$38,000.00
Transportation Charge:				\$250.00
Volumetric Charge:		Base Rate	Total Temporary Adjustment [1]	
Per therm, all therms		\$0.00499	\$(0.00003)	\$0.00496
Minimum Monthly Bill: Customer Charge, plus Transportation Charge, plus any other charges that may apply from SCHEDULE C and SCHEDULE 10 .				

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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 201 shall apply.

Issued August 30, 2013
NWN WUTC Advice No. 13-4

Effective with service on
and after November 1, 2013

BEFORE THE
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

NW NATURAL
SUPPORTING MATERIALS

Purchased Gas Cost Adjustment
Deferred Gas Cost Amortization Adjustments
and
Other Non-Gas Cost Amortization Adjustments

NWN Advice No. WUTC 13-4
August 30, 2013



Supporting Materials
Purchased Gas Cost Adjustment
Deferred Gas Cost Amortization Adjustments and
Other Non-Gas Cost Amortization Adjustments
NWN Advice No. WUTC 13-4

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PGA Effects on Average Bill by Rate Schedule	2
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Calculation of Increments on Equal % of Margin	5
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<u>Commodity and Non-Commodity Costs</u>	
Derivation of Demand Increments	7
Summary of Total Demand Charges	8
Summary of Total Commodity Cost	9
Calculation of Winter WACOG	10

NW Natural
Rates & Regulatory Affairs
2013-2014 PGA Filing - Washington: August Filing
Calculation of Proposed Rates - SUMMARY

		11/1/2012	Net change	Net change	Proposed	Net change	Proposed
		Billing	WACOG	Demand [1]	Rates	Temporary	Billing
		Rates			PGA Only [1]	Increments	Rates [1]
		D=A+B+C				F=D+E	
Schedule	Block	A	B	C	D	E	F
1R		1.21592	0.01417	(0.00078)	1.22931	0.00020	1.22951
1C		1.20611	0.01417	(0.00078)	1.21950	0.00029	1.21979
2R		0.93022	0.01417	(0.00078)	0.94361	(0.00117)	0.94244
3 CFS		0.93197	0.01417	(0.00078)	0.94536	(0.00216)	0.94320
3 IFS		0.91994	0.01417	(0.00078)	0.93333	(0.01023)	0.92310
27		0.76588	0.01417	(0.00078)	0.77927	(0.00283)	0.77644
41C Firm Sales	Block 1	0.67049	0.01417	0.00000	0.68466	(0.00301)	0.68165
	Block 2	0.63290	0.01417	0.00000	0.64707	(0.00340)	0.64367
41C Interr Sales	Block 1	0.67900	0.01417	0.00000	0.69317	0.00599	0.69916
	Block 2	0.64148	0.01417	0.00000	0.65565	0.00562	0.66127
41 Firm Trans	Block 1	0.30077	0.00000	0.00000	0.30077	(0.00186)	0.29891
	Block 2	0.26500	0.00000	0.00000	0.26500	(0.00164)	0.26336
41I Firm Sales	Block 1	0.66199	0.01417	0.00000	0.67616	(0.00981)	0.66635
	Block 2	0.62540	0.01417	0.00000	0.63957	(0.00938)	0.63019
41I Interr Sales	Block 1	0.67088	0.01417	0.00000	0.68505	(0.00059)	0.68446
	Block 2	0.63433	0.01417	0.00000	0.64850	(0.00018)	0.64832
42C Firm Sales	Block 1	0.48281	0.01417	0.00000	0.49698	(0.00486)	0.49212
	Block 2	0.46934	0.01417	0.00000	0.48351	(0.00502)	0.47849
	Block 3	0.44250	0.01417	0.00000	0.45667	(0.00529)	0.45138
	Block 4	0.42485	0.01417	0.00000	0.43902	(0.00550)	0.43352
	Block 5	0.40131	0.01417	0.00000	0.41548	(0.00575)	0.40973
	Block 6	0.37188	0.01417	0.00000	0.38605	(0.00607)	0.37998
42I Firm Sales	Block 1	0.47623	0.01417	0.00000	0.49040	(0.00810)	0.48230
	Block 2	0.46344	0.01417	0.00000	0.47761	(0.00792)	0.46969
	Block 3	0.43798	0.01417	0.00000	0.45215	(0.00753)	0.44462
	Block 4	0.42123	0.01417	0.00000	0.43540	(0.00727)	0.42813
	Block 5	0.39891	0.01417	0.00000	0.41308	(0.00694)	0.40614
	Block 6	0.37097	0.01417	0.00000	0.38514	(0.00652)	0.37862
42 Firm Trans	Block 1	0.11818	0.00000	0.00000	0.11818	(0.00078)	0.11740
	Block 2	0.10579	0.00000	0.00000	0.10579	(0.00070)	0.10509
	Block 3	0.08112	0.00000	0.00000	0.08112	(0.00054)	0.08058
	Block 4	0.06490	0.00000	0.00000	0.06490	(0.00043)	0.06447
	Block 5	0.04327	0.00000	0.00000	0.04327	(0.00029)	0.04298
	Block 6	0.01622	0.00000	0.00000	0.01622	(0.00011)	0.01611
42C Interr Sales	Block 1	0.48791	0.01417	0.00000	0.50208	0.00363	0.50571
	Block 2	0.47485	0.01417	0.00000	0.48902	0.00356	0.49258
	Block 3	0.44889	0.01417	0.00000	0.46306	0.00342	0.46648
	Block 4	0.43181	0.01417	0.00000	0.44598	0.00333	0.44931
	Block 5	0.40904	0.01417	0.00000	0.42321	0.00320	0.42641
	Block 6	0.38058	0.01417	0.00000	0.39475	0.00304	0.39779
42I Interr Sales	Block 1	0.48480	0.01417	0.00000	0.49897	0.00139	0.50036
	Block 2	0.47207	0.01417	0.00000	0.48624	0.00158	0.48782
	Block 3	0.44676	0.01417	0.00000	0.46093	0.00190	0.46283
	Block 4	0.43012	0.01417	0.00000	0.44429	0.00210	0.44639
	Block 5	0.40791	0.01417	0.00000	0.42208	0.00238	0.42446
	Block 6	0.38016	0.01417	0.00000	0.39433	0.00273	0.39706
42 Inter Trans	Block 1	0.11818	0.00000	0.00000	0.11818	(0.00072)	0.11746
	Block 2	0.10579	0.00000	0.00000	0.10579	(0.00064)	0.10515
	Block 3	0.08112	0.00000	0.00000	0.08112	(0.00049)	0.08063
	Block 4	0.06490	0.00000	0.00000	0.06490	(0.00039)	0.06451
	Block 5	0.04327	0.00000	0.00000	0.04327	(0.00026)	0.04301
	Block 6	0.01622	0.00000	0.00000	0.01622	(0.00010)	0.01612
43 Firm Trans		0.00499	0.00000	0.00000	0.00499	(0.00003)	0.00496
43 Interr Trans		0.00499	0.00000	0.00000	0.00499	(0.00003)	0.00496
Intentionally blank							

Sources:

Direct Inputs	12-13 PGA
Rates in detail	Column F - B Column G+H-C-D Column K - J

[1] Rate Schedule 41 and 42 customers may choose demand charges at a volumetric rate or based on MDDV.
 For convenience of presentation, demand charges are not shown for those schedules.

NW Natural
 Rates & Regulatory Affairs
 2013-2014 PGA Filing - Washington: August Filing
 Summary of TEMPORARY Increments

		REMOVE	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD	ADD
		Current	WACOG	Demand	Demand	R&C Energy	Low Income	WA-LIEE	Tualatin	Total Current	Net Effect of	
		Temporaries	Deferral	Deferral	Deferral	Efficiency	Bill Pay		Property	Temporaries	Temps	
				FIRM	INTERR	Programs	Assistance		Gain			
							(GREAT)					
										I= sum B thru H	J = I - A	
Schedule	Block	A	B	C	D	E	F	G	H	I	J	
1R		0.00524	(0.01023)	(0.02839)	0.00000	0.03712	0.01070	0.00044	(0.00420)	0.00544	0.00020	
1C		(0.00428)	(0.01023)	(0.02839)	0.00000	0.02917	0.00841	0.00034	(0.00329)	(0.00399)	0.00029	
2R		(0.01081)	(0.01023)	(0.02839)	0.00000	0.02244	0.00647	0.00027	(0.00254)	(0.01198)	(0.00117)	
3 CFS		(0.01315)	(0.01023)	(0.02839)	0.00000	0.01964	0.00566	0.00023	(0.00222)	(0.01531)	(0.00216)	
3 IFS		(0.02510)	(0.01023)	(0.02839)	0.00000	0.00000	0.00507	0.00021	(0.00199)	(0.03533)	(0.01023)	
27		(0.01496)	(0.01023)	(0.02839)	0.00000	0.01754	0.00506	0.00021	(0.00198)	(0.01779)	(0.00283)	
41C Firm Sales	Block 1	(0.01740)	(0.01023)	(0.02839)	0.00000	0.01534	0.00442	0.00018	(0.00173)	(0.02041)	(0.00301)	
	Block 2	(0.01918)	(0.01023)	(0.02839)	0.00000	0.01351	0.00390	0.00016	(0.00153)	(0.02258)	(0.00340)	
41C Interr Sales	Block 1	(0.00867)	(0.01023)	0.00000	(0.00991)	0.01470	0.00436	0.00018	(0.00178)	(0.00268)	0.00599	
	Block 2	(0.01038)	(0.01023)	0.00000	(0.00991)	0.01295	0.00384	0.00016	(0.00157)	(0.00476)	0.00562	
41 Firm Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00186)	(0.00186)	(0.00186)	
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00164)	(0.00164)	(0.00164)	
41I Firm Sales	Block 1	(0.02593)	(0.01023)	(0.02839)	0.00000	0.00000	0.00444	0.00018	(0.00174)	(0.03574)	(0.00981)	
	Block 2	(0.02670)	(0.01023)	(0.02839)	0.00000	0.00000	0.00391	0.00016	(0.00153)	(0.03608)	(0.00938)	
41I Interr Sales	Block 1	(0.01679)	(0.01023)	0.00000	(0.00991)	0.00000	0.00436	0.00018	(0.00178)	(0.01738)	(0.00059)	
	Block 2	(0.01753)	(0.01023)	0.00000	(0.00991)	0.00000	0.00384	0.00016	(0.00157)	(0.01771)	(0.00018)	
42C Firm Sales	Block 1	(0.02232)	(0.01023)	(0.02839)	0.00000	0.00964	0.00278	0.00011	(0.00109)	(0.02718)	(0.00486)	
	Block 2	(0.02336)	(0.01023)	(0.02839)	0.00000	0.00863	0.00249	0.00010	(0.00098)	(0.02838)	(0.00502)	
	Block 3	(0.02547)	(0.01023)	(0.02839)	0.00000	0.00662	0.00191	0.00008	(0.00075)	(0.03076)	(0.00529)	
	Block 4	(0.02684)	(0.01023)	(0.02839)	0.00000	0.00529	0.00153	0.00006	(0.00060)	(0.03234)	(0.00550)	
	Block 5	(0.02868)	(0.01023)	(0.02839)	0.00000	0.00353	0.00102	0.00004	(0.00040)	(0.03443)	(0.00575)	
	Block 6	(0.03098)	(0.01023)	(0.02839)	0.00000	0.00132	0.00038	0.00002	(0.00015)	(0.03705)	(0.00607)	
42I Firm Sales	Block 1	(0.02887)	(0.01023)	(0.02839)	0.00000	0.00000	0.00255	0.00010	(0.00100)	(0.03697)	(0.00810)	
	Block 2	(0.02923)	(0.01023)	(0.02839)	0.00000	0.00000	0.00228	0.00009	(0.00090)	(0.03715)	(0.00792)	
	Block 3	(0.02996)	(0.01023)	(0.02839)	0.00000	0.00000	0.00175	0.00007	(0.00069)	(0.03749)	(0.00753)	
	Block 4	(0.03044)	(0.01023)	(0.02839)	0.00000	0.00000	0.00140	0.00006	(0.00055)	(0.03771)	(0.00727)	
	Block 5	(0.03108)	(0.01023)	(0.02839)	0.00000	0.00000	0.00093	0.00004	(0.00037)	(0.03802)	(0.00694)	
	Block 6	(0.03188)	(0.01023)	(0.02839)	0.00000	0.00000	0.00035	0.00001	(0.00014)	(0.03840)	(0.00652)	
42 Firm Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00078)	(0.00078)	(0.00078)	
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00070)	(0.00070)	(0.00070)	
	Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00054)	(0.00054)	(0.00054)	
	Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00043)	(0.00043)	(0.00043)	
	Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00029)	(0.00029)	(0.00029)	
	Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00011)	(0.00011)	(0.00011)	
42C Interr Sales	Block 1	(0.01710)	(0.01023)	0.00000	(0.00991)	0.00562	0.00162	0.00007	(0.00064)	(0.01347)	0.00363	
	Block 2	(0.01773)	(0.01023)	0.00000	(0.00991)	0.00503	0.00145	0.00006	(0.00057)	(0.01417)	0.00356	
	Block 3	(0.01898)	(0.01023)	0.00000	(0.00991)	0.00386	0.00111	0.00005	(0.00044)	(0.01556)	0.00342	
	Block 4	(0.01980)	(0.01023)	0.00000	(0.00991)	0.00309	0.00089	0.00004	(0.00035)	(0.01647)	0.00333	
	Block 5	(0.02090)	(0.01023)	0.00000	(0.00991)	0.00206	0.00059	0.00002	(0.00023)	(0.01770)	0.00320	
	Block 6	(0.02227)	(0.01023)	0.00000	(0.00991)	0.00077	0.00022	0.00001	(0.00009)	(0.01923)	0.00304	
42I Interr Sales	Block 1	(0.02021)	(0.01023)	0.00000	(0.00991)	0.00000	0.00205	0.00008	(0.00081)	(0.01882)	0.00139	
	Block 2	(0.02052)	(0.01023)	0.00000	(0.00991)	0.00000	0.00184	0.00008	(0.00072)	(0.01894)	0.00158	
	Block 3	(0.02112)	(0.01023)	0.00000	(0.00991)	0.00000	0.00141	0.00006	(0.00055)	(0.01922)	0.00190	
	Block 4	(0.02150)	(0.01023)	0.00000	(0.00991)	0.00000	0.00113	0.00005	(0.00044)	(0.01940)	0.00210	
	Block 5	(0.02203)	(0.01023)	0.00000	(0.00991)	0.00000	0.00075	0.00003	(0.00029)	(0.01965)	0.00238	
	Block 6	(0.02269)	(0.01023)	0.00000	(0.00991)	0.00000	0.00028	0.00001	(0.00011)	(0.01996)	0.00273	
42 Inter Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00072)	(0.00072)	(0.00072)	
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00064)	(0.00064)	(0.00064)	
	Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00049)	(0.00049)	(0.00049)	
	Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00039)	(0.00039)	(0.00039)	
	Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00026)	(0.00026)	(0.00026)	
	Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00010)	(0.00010)	(0.00010)	
43 Firm Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00003)	(0.00003)	(0.00003)	
43 Interr Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00003)	(0.00003)	(0.00003)	

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Sources:											
Direct Inputs		12-13 PGA									
Equal \$ per therm			Column D	Column G	Column J	Column L			Column O	Column R	Column U
Equal % of margin											
Tariff Schedules:											
Schedule #		Sched 201	Sched 201	Sched 201	Sched 215	Sched 230, Prg J	Sched 230, Prg I	Sched 210			

NW Natural
Rates & Regulatory Affairs
2013-14 PGA Filing - Washington: August Filing
PGA Effects on Revenue

	<u>Amount</u>
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<u>Purchased Gas Cost Adjustment (PGA)</u>	
Gas Cost Change	\$1,040,697
Capacity Cost Change	<u>534,630</u>
Total PGA Change	<u>1,575,327</u>
<u>Temporary Rate Adjustments</u>	
Proposed Temporary Increments	(1,090,107)
Removal of Current Temporary Increments	<u>903,976</u>
Total Net Temporary Rate Adjustment	<u>(186,131)</u>
TOTAL OF ALL COMPONENTS OF ALL RATE CHANGES	<u><u>\$1,389,196</u></u>
2012 Washington CBR Normalized Total Revenues	\$72,888,538
Effect of this filing, as a percentage change	1.91%

NW Natural
Rates & Regulatory Affairs
2013-2014 PGA Filing - Washington: August Filing
Calculation of Increments Allocated on the EQUAL PERCENTAGE OF MARGIN BASIS

Line	Schedule	Block	PGA Volumes page, Column D	Billing Rates from Rates page, Column A	WACOG & Demand from Rates page, Column B+C+D	Temps from Temporary Increment page, Column A	MARGIN Rate E=B-C-D	Volumetric Margin F = E * A	Customer Charge G	Customers H	Total Margin I = (G*H*12)+F	R&C Energy Efficiency Programs			Low Income Bill Pay Assistance (GREAT)			WA-LIEE			Tualatin Property Gain					
												Proposed Amount:			4,372% add revenue sensitive factor			4,372% add revenue sensitive factor			4,372% add revenue sensitive factor			4,372% add revenue sensitive factor		
												Revenue Sensitive Multiplier:	1,355,020	Temporary Increments	401,687	Temporary Increments	16,501	Temporary Increments	17,255	All sales	17,255	All sales	17,255	All sales	17,255	All sales
6													1.0	5,592	0.03712	1.0	1,612	0.01070	1.0	66	0.00044	1.0	(632)	(0.00420)		
7	1R		150,638	1.21592	0.52698	0.00524	0.68370	102,991	\$3.47	761	134,679	1.0	1,895	0.02917	1.0	546	0.00841	1.0	22	0.00034	1.0	(214)	(0.00329)			
8	1C		64,959	1.20611	0.52698	(0.00428)	0.68341	44,394	\$3.47	30	45,643	1.0	974,921	0.02244	1.0	280,980	0.00647	1.0	11,542	0.00027	1.0	(110,231)	(0.00254)			
9	2R		43,453,885	0.93022	0.52698	(0.01081)	0.41405	17,992,081	\$7.00	65,321	23,479,045	1.0	351,263	0.01964	1.0	101,237	0.00565	1.0	4,159	0.00023	1.0	(39,716)	(0.00222)			
10	3 CFS		17,889,381	0.93197	0.52698	(0.01315)	0.41814	7,480,266	\$15.00	5,440	8,459,466	1.0	0	0.00000	1.0	2,486	0.00507	1.0	102	0.00021	1.0	(975)	(0.00199)			
11	3 IFS		490,108	0.91994	0.52698	(0.02510)	0.41806	204,895	\$15.00	16	207,775	1.0	2,831	0.01754	1.0	816	0.00506	1.0	34	0.00021	1.0	(320)	(0.00198)			
12	2Z		161,364	0.76588	0.52698	(0.01496)	0.25386	40,964	\$6.00	378	68,180	1.0	60,836	0.01534	1.0	17,534	0.00442	1.0	720	0.00018	1.0	(6,879)	(0.00173)			
13	41C Firm Sales	Block 1	2,139,658	0.67049	0.38659	(0.01740)	0.30130	1,195,124	\$250.00	90	1,465,124	1.0	0	0.00000	1.0	0	0.00000	1.0	0	0.00000	1.0	0	0.00000			
14		Block 2	2,073,319	0.63290	0.38659	(0.01918)	0.26549					1.0	0	0.01470	1.0	0	0.00436	1.0	0	0.00018	1.0	0	(0.00178)			
15	41C Interr Sales	Block 1	0	0.67900	0.38659	(0.00867)	0.30108	0	\$250.00	0	0	1.0	0	0.01295	1.0	0	0.00384	1.0	0	0.00016	1.0	0	(0.00157)			
16		Block 2	0	0.64148	0.38659	(0.01028)	0.26527					1.0	0	0.00000	1.0	0	0.00000	1.0	0	0.00000	1.0	0	0.00000			
17	41 Firm Trans	Block 1	47,796	0.30077	0.00000	0.00000	0.30077	38,209	\$500.00	2	50,209	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	(236)	(0.00186)			
18		Block 2	89,936	0.26500	0.00000	0.00000	0.26500					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00164)			
19	41I Firm Sales	Block 1	199,295	0.66199	0.38659	(0.02593)	0.30133	117,106	\$250.00	9	144,106	0.0	0	0.00000	1.0	1,725	0.00444	1.0	71	0.00018	1.0	(677)	(0.00174)			
20		Block 2	214,880	0.62940	0.38659	(0.02570)	0.26551					0.0	0	0.00000	1.0	0	0.00000	1.0	0	0.00016	1.0	0	(0.00153)			
21	41I Interr Sales	Block 1	0	0.67088	0.38659	(0.01679)	0.30108	0	\$250.00	0	0	1.0	0	0.00000	1.0	0	0.00436	1.0	0	0.00018	1.0	0	(0.00178)			
22		Block 2	0	0.63433	0.38659	(0.01753)	0.26527					0.0	0	0.00000	1.0	0	0.00384	1.0	0	0.00016	1.0	0	(0.00157)			
23	42C Firm Sales	Block 1	679,000	0.48281	0.38659	(0.02232)	0.11854	113,999	\$1,300.00	7	223,199	1.0	9,268	0.00964	1.0	2,671	0.00278	1.0	110	0.00011	1.0	(1,048)	(0.00109)			
24		Block 2	301,144	0.46934	0.38659	(0.02336)	0.10611					1.0	0	0.00863	1.0	0	0.00249	1.0	0	0.00010	1.0	0	(0.00098)			
25		Block 3	19,118	0.44250	0.38659	(0.02547)	0.08138					1.0	0	0.00662	1.0	0	0.00191	1.0	0	0.00008	1.0	0	(0.00075)			
26		Block 4	0	0.42485	0.38659	(0.02684)	0.06510					1.0	0	0.00529	1.0	0	0.00153	1.0	0	0.00006	1.0	0	(0.00060)			
27		Block 5	0	0.40131	0.38659	(0.02868)	0.04340					1.0	0	0.00353	1.0	0	0.00102	1.0	0	0.00004	1.0	0	(0.00040)			
28		Block 6	0	0.37188	0.38659	(0.03098)	0.01627					1.0	0	0.00132	1.0	0	0.00038	1.0	0	0.00002	1.0	0	(0.00015)			
29	42I Firm Sales	Block 1	1,079,174	0.47623	0.38659	(0.02887)	0.11851	234,748	\$1,300.00	12	421,948	0.0	0	0.00000	1.0	5,050	0.00255	1.0	207	0.00010	1.0	(1,981)	(0.00160)			
30		Block 2	786,160	0.46344	0.38659	(0.02923)	0.10608					0.0	0	0.00000	1.0	0	0.00228	1.0	0	0.00009	1.0	0	(0.00090)			
31		Block 3	270,853	0.43798	0.38659	(0.02996)	0.08135					0.0	0	0.00000	1.0	0	0.00175	1.0	0	0.00007	1.0	0	(0.00069)			
32		Block 4	21,904	0.42123	0.38659	(0.03044)	0.06508					0.0	0	0.00000	1.0	0	0.00140	1.0	0	0.00006	1.0	0	(0.00055)			
33		Block 5	0	0.39891	0.38659	(0.03108)	0.04340					0.0	0	0.00000	1.0	0	0.00093	1.0	0	0.00004	1.0	0	(0.00037)			
34		Block 6	0	0.37097	0.38659	(0.03188)	0.01626					0.0	0	0.00000	1.0	0	0.00055	1.0	0	0.00001	1.0	0	(0.00014)			
35	42 Firm Trans	Block 1	982,602	0.11818	0.00000	0.00000	0.11818	403,988	\$1,550.00	9	571,388	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	(2,683)	(0.00078)			
36		Block 2	945,098	0.10579	0.00000	0.00000	0.10579					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00070)			
37		Block 3	720,000	0.08112	0.00000	0.00000	0.08112					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00054)			
38		Block 4	1,495,095	0.06490	0.00000	0.00000	0.06490					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00043)			
39		Block 5	749,810	0.04327	0.00000	0.00000	0.04327					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00029)			
40		Block 6	0	0.01622	0.00000	0.00000	0.01622					0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.00011)			
41	42C Interr Sales	Block 1	504,693	0.48791	0.38659	(0.01710)	0.11842	218,378	\$1,300.00	2	249,578	1.0	10,363	0.00562	1.0	2,987	0.00162	1.0	123	0.00007	1.0	(1,172)	(0.00064)			
42		Block 2	958,087	0.47485	0.38659	(0.01773)	0.10599					1.0	0	0.00503	1.0	0	0.00145	1.0	0	0.00006	1.0	0	(0.00057)			
43		Block 3	494,816	0.44889	0.38659	(0.01988)	0.08128					1.0	0	0.00386	1.0	0	0.00111	1.0	0	0.00005	1.0	0	(0.00044)			
44		Block 4	259,089	0.43181	0.38659	(0.01980)	0.06502					1.0	0	0.00309	1.0	0	0.00089	1.0	0	0.00004	1.0	0	(0.00035)			
45		Block 5	0	0.40904	0.38659	(0.02090)	0.04335					1.0	0	0.00206	1.0	0	0.00059	1.0	0	0.00002	1.0	0	(0.00023)			
46		Block 6	0	0.38058	0.38659	(0.02277)	0.01626					1.0	0	0.00077	1.0	0	0.00022	1.0	0	0.00001	1.0	0	(0.00009)			
47	42I Interr Sales	Block 1	720,387	0.48480	0.38659	(0.02021)	0.11842	138,935	\$1,300.00	4	201,335	0.0	0	0.00000	1.0	2,409	0.00205	1.0	99	0.00008	1.0	(945)	(0.00072)			
48		Block 2	478,052	0.47207	0.38659	(0.02052)	0.10600					0.0	0	0.00000	1.0	0	0.00184	1.0	0	0.00008	1.0	0	(0.00072)			
49		Block 3	36,334	0.44676	0.38659	(0.02112)	0.08129					0.0	0	0.00000	1.0	0	0.00141	1.0	0	0.00006	1.0	0	(0.00055)			
50		Block 4	0	0.43012	0.38659	(0.02150)	0.06503					0.0	0	0.00000	1.0	0	0.00113	1.0	0	0.00005	1.0	0	(0.00044)			
51		Block 5	0	0.40791	0.38659	(0.02203)	0.04335					0.0	0	0.00000	1.0	0	0.00075	1.0	0	0.00003	1.0	0	(0.00029)			
52		Block 6	0	0.38016	0.38659	(0.02269)	0.01626					0.0	0	0.00000	1.0	0	0.00028	1.0	0	0.00001	1.0	0	(0.00011)			
53	42 Inter Trans	Block 1	846,474	0.11818	0.00000	0.00000	0.11818	704,292	\$1,550.00	11	908,892	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	(4,267)	(0.00072)			

NW Natural
Rates & Regulatory Affairs
2013-2014 PGA Filing - Washington: August Filing
Calculation of Increments Allocated on the EQUAL CENT PER THERM BASIS

Washington		WACOG Deferral			Demand Deferral - FIRM			Demand Deferral - INTERRUPTIBLE			
1	PGA	Proposed Amount:	(718,350)	Temporary Increment	(1,900,127)	Temporary Increment	(32,722)	Temporary Increment			
2	Volumes page,	Revenue Sensitive Multiplier:	4.372%	add revenue sensitive factor	4.372%	add revenue sensitive factor	4.372%	add revenue sensitive factor			
3	Column F	Amount to Amortize:	(751,192)	to all sales schedules	(1,986,999)	to all firm sales	(34,218)	to all Interruptible sales			
Schedule	Block	A	Multiplier	Volumes	Increment	Multiplier	Volumes	Increment	Multiplier	Volumes	Increment
			B	C	D	E	F	G	H	I	J
7	1R	150,638	1.0	150,638	(0.01023)	1.0	150,638	(0.02839)	0.0	0	0.00000
8	1C	64,959	1.0	64,959	(0.01023)	1.0	64,959	(0.02839)	0.0	0	0.00000
9	2R	43,453,885	1.0	43,453,885	(0.01023)	1.0	43,453,885	(0.02839)	0.0	0	0.00000
10	3 CFS	17,889,381	1.0	17,889,381	(0.01023)	1.0	17,889,381	(0.02839)	0.0	0	0.00000
11	3 IFS	490,108	1.0	490,108	(0.01023)	1.0	490,108	(0.02839)	0.0	0	0.00000
12	27	161,364	1.0	161,364	(0.01023)	1.0	161,364	(0.02839)	0.0	0	0.00000
13	41C Firm Sales	Block 1 2,139,658	1.0	2,139,658	(0.01023)	1.0	2,139,658	(0.02839)	0.0	0	0.00000
14		Block 2 2,073,319	1.0	2,073,319	(0.01023)	1.0	2,073,319	(0.02839)	0.0	0	0.00000
15	41C Interr Sales	Block 1 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
16		Block 2 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
17	41 Firm Trans	Block 1 47,796	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
18		Block 2 89,936	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
19	41I Firm Sales	Block 1 199,295	1.0	199,295	(0.01023)	1.0	199,295	(0.02839)	0.0	0	0.00000
20		Block 2 214,880	1.0	214,880	(0.01023)	1.0	214,880	(0.02839)	0.0	0	0.00000
21	41I Interr Sales	Block 1 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
22		Block 2 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
23	42C Firm Sales	Block 1 679,000	1.0	679,000	(0.01023)	1.0	679,000	(0.02839)	0.0	0	0.00000
24		Block 2 301,144	1.0	301,144	(0.01023)	1.0	301,144	(0.02839)	0.0	0	0.00000
25		Block 3 19,118	1.0	19,118	(0.01023)	1.0	19,118	(0.02839)	0.0	0	0.00000
26		Block 4 0	1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	0	0.00000
27		Block 5 0	1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	0	0.00000
28		Block 6 0	1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	0	0.00000
29	42I Firm Sales	Block 1 1,079,174	1.0	1,079,174	(0.01023)	1.0	1,079,174	(0.02839)	0.0	0	0.00000
30		Block 2 786,160	1.0	786,160	(0.01023)	1.0	786,160	(0.02839)	0.0	0	0.00000
31		Block 3 270,853	1.0	270,853	(0.01023)	1.0	270,853	(0.02839)	0.0	0	0.00000
32		Block 4 21,904	1.0	21,904	(0.01023)	1.0	21,904	(0.02839)	0.0	0	0.00000
33		Block 5 0	1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	0	0.00000
34		Block 6 0	1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	0	0.00000
35	42 Firm Trans	Block 1 982,602	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
36		Block 2 945,098	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
37		Block 3 720,000	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
38		Block 4 1,495,095	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
39		Block 5 749,810	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
40		Block 6 0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
41	42C Interr Sales	Block 1 504,693	1.0	504,693	(0.01023)	0.0	0	0.00000	1.0	504,693	(0.00991)
42		Block 2 958,087	1.0	958,087	(0.01023)	0.0	0	0.00000	1.0	958,087	(0.00991)
43		Block 3 494,816	1.0	494,816	(0.01023)	0.0	0	0.00000	1.0	494,816	(0.00991)
44		Block 4 259,089	1.0	259,089	(0.01023)	0.0	0	0.00000	1.0	259,089	(0.00991)
45		Block 5 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
46		Block 6 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
47	42I Interr Sales	Block 1 720,387	1.0	720,387	(0.01023)	0.0	0	0.00000	1.0	720,387	(0.00991)
48		Block 2 478,052	1.0	478,052	(0.01023)	0.0	0	0.00000	1.0	478,052	(0.00991)
49		Block 3 36,334	1.0	36,334	(0.01023)	0.0	0	0.00000	1.0	36,334	(0.00991)
50		Block 4 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
51		Block 5 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
52		Block 6 0	1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
53	42 Inter Trans	Block 1 846,474	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
54		Block 2 1,573,592	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
55		Block 3 1,144,957	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
56		Block 4 3,778,518	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
57		Block 5 2,303,680	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
58		Block 6 0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
59	43 Firm Trans	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
60	43 Interr Trans	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
61	Intentionally blank										
62											
63	Totals	88,123,855		73,446,297	(0.01023)		69,994,839	(0.02839)		3,451,458	(0.00991)
64		0									

Sources for line 2 above:

Inputs page	Line 31	Line 33	Line 35
Tariff Schedules:			
Schedule #	Sched 201	Sched 201	Sched 201

NW Natural
2013-2014 PGA - SYSTEM: August Filing
Derivation of Washington per therm Non-Commodity Charges
ALL VOLUMES IN THERMS

Washington Derivation of Demand Increments

1		Without	WITH
2		<u>Revenue Sensitive</u>	<u>Revenue Sensitive</u>
3	(a)	(c)	(d)
4	System Demand	\$96,608,798	
5	Washington Allocation Factor 1/	9.84%	
6	Washington Demand	\$9,506,306	
7			
8	Washington Firm Sales Normal Volumes	69,994,838	
9	Washington Interruptible Sales Normal Volumes:	3,451,457	
10			
11			
12	Proposed Firm Demand Per Therm 2/	\$0.13351	\$0.13961
13	Proposed Interruptible Demand 2/	\$0.04663	\$0.04876
14	Proposed MDDV Demand Charge	\$1.99	\$2.08
15			
16	Current Firm Demand Per Therm	\$0.13425	\$0.14039
17	Current Interruptible Demand	\$0.04689	\$0.04903
18	Current MDDV Demand Charge	\$2.00	\$2.09
19			
20	Percent Change in Firm Demand	-0.55%	
21			
22			
23	1/Allocation Factor: 2013-14 PGA forecast firm sales volumes:		
24		<u>Washington</u>	<u>Oregon</u>
25	Firm Sales	69,994,838	610,826,251
26	Interruptible Sales	3,451,457	62,038,654
27	Total	<u>73,446,295</u>	<u>672,864,905</u>
28		9.84%	90.16%
29			<u>System</u>
30	2/Calculation of Proposed Demand Rates:		
31			
32	Demand change factor	0.995	
33			
34	Firm Demand (line 8 * line 34)	\$0.13351	\$9,345,353
35	Interruptible Demand (line 9 * line 35)	\$0.04663	\$160,953
36			<u>\$9,506,306</u>
37			

NW Natural
2013-2014 PGA - SYSTEM: August Filing
Summary of Total Commodity Cost
ALL VOLUMES IN THERMS

SYSTEM COSTS															
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
	November	December	January	February	March	April	May	June	July	August	September	October	TOTAL		
COSTS															
Commodity Cost from Supply	\$26,730,279	\$27,985,770	\$25,591,832	\$18,633,068	\$16,919,506	\$19,182,225	\$10,674,505	\$8,079,234	\$7,973,843	\$7,786,098	\$7,676,579	\$14,683,886	\$191,916,826		
tab commodity cost from supply, column bo, lines 93-105 plus															
tab commodity cost from gas reserve, column n, lines 59-70															
Volumetric Pipeline Chgs	\$342,411	\$375,549	\$363,393	\$262,642	\$234,884	\$198,909	\$131,058	\$108,403	\$110,733	\$111,228	\$108,735	\$177,329	\$2,525,274		
tab commodity cost from vol pipe, column e, line 78-90															
Commodity Cost from Storage	\$1,933,632	\$15,032,505	\$16,451,733	\$15,871,463	\$12,598,510	\$117,512	\$121,430	\$117,512	\$121,430	\$121,430	\$117,512	\$121,430	\$62,726,099		
tab Commodity Cost from Storage, column i, line 61-73															
Commodity Cost from Gas Reserves	\$2,687,293	\$2,982,755	\$2,732,929	\$2,679,036	\$2,836,568	\$3,020,935	\$3,291,580	\$3,429,681	\$3,673,273	\$4,065,061	\$3,974,269	\$4,302,099	\$39,675,478		
tab Commodity Cost from Gas Reserve, column m, line 59-70															
Total Commodity Cost	\$31,693,614	\$46,376,579	\$45,139,887	\$37,446,210	\$32,589,467	\$22,519,581	\$14,218,573	\$11,734,831	\$11,879,279	\$12,083,817	\$11,877,095	\$19,284,744	\$296,843,676		
VOLUMES															
Commodity Volumes at Receipt Points	80,655,563	82,351,178	75,312,346	55,377,862	51,605,668	60,637,473	36,268,975	29,151,077	29,723,473	29,871,807	29,262,496	49,125,746	609,343,664		
Pipeline Fuel Use	2,228,889	2,219,770	1,989,847	1,402,952	1,318,064	1,685,424	858,827	677,780	704,788	697,408	684,867	1,249,897	15,718,513		
Gas Arriving at City Gate	78,426,674	80,131,408	73,322,499	53,974,910	50,287,604	58,952,049	35,410,148	28,473,297	29,018,685	29,174,399	28,577,629	47,875,849	593,625,151		
Storage Gas Withdrawals	5,680,076	37,238,081	41,277,701	38,942,118	31,730,575	240,000	248,000	240,000	248,000	248,000	240,000	248,000	156,580,550		
Pipeline Fuel Use for Alberta-sourced Storage	195,796	286,185	322,307	141,495	131,998	0	0	0	0	0	0	0	1,249,897		
Storage Gas Deliveries at City Gate	5,484,280	36,951,896	40,955,394	38,800,623	31,598,576	240,000	248,000	240,000	248,000	248,000	240,000	248,000	155,502,769		
Total Gas At City Gate (Storage and Commodity)	83,910,954	117,083,304	114,277,893	92,775,533	81,886,180	59,192,049	35,658,148	28,713,297	29,266,685	29,422,399	28,817,629	48,123,849	749,127,920		
Unaccounted for Gas	372,131	380,220	347,912	256,108	238,612	279,724	168,019	135,104	137,692	138,431	135,599	227,168	2,816,720		
Load Served	83,538,823	116,703,084	113,929,981	92,519,425	81,647,568	58,912,325	35,490,129	28,578,193	29,128,993	29,283,968	28,682,030	47,896,681	746,311,200		

WACOG Calculations

Gas Reserves Supply:															
Total cost (line 12 above)	\$2,687,293	\$2,982,755	\$2,732,929	\$2,679,036	\$2,836,568	\$3,020,935	\$3,291,580	\$3,429,681	\$3,673,273	\$4,065,061	\$3,974,269	\$4,302,099	\$39,675,478		
Load served by gas reserves	4,642,472	4,866,886	4,857,608	4,455,023	4,965,217	5,407,127	6,083,221	6,363,430	6,949,454	7,778,473	7,578,804	8,422,715	72,370,431		
Total Load Served															
Oregon	75,306,441	104,969,015	102,512,980	83,280,246	73,647,955	53,351,124	32,148,886	25,739,173	26,237,169	26,394,108	25,876,174	43,401,634	672,864,905		
Washington	8,232,385	11,734,070	11,416,999	9,239,180	7,999,615	5,561,204	3,341,243	2,839,017	2,891,821	2,889,861	2,805,854	4,495,046	73,446,295		
Total (same as line 29 +/- rounding)	83,538,826	116,703,085	113,929,979	92,519,426	81,647,570	58,912,328	35,490,129	28,578,190	29,128,990	29,283,969	28,682,028	47,896,680	746,311,200		
Washington WACOG Calculation															
Hedged Rockies supply excluding Gas Reserves															
Hedged Rockies supply volumes	14,758,500	15,250,450	13,725,405	8,067,980	5,482,570	6,641,325	6,862,703	3,689,625	2,287,568	2,287,568	2,213,775	6,862,703	88,130,170		
Hedged Rockies supply cost	\$5,874,938	\$6,109,829	\$5,478,591	\$3,249,180	\$2,228,225	\$2,640,000	\$2,693,125	\$1,426,500	\$905,200	\$905,200	\$876,000	\$2,757,450	\$35,144,237		
Hedged Rockies supply price per therm	\$0.39807	\$0.40063	\$0.39916	\$0.40273	\$0.40642	\$0.39751	\$0.39243	\$0.38662	\$0.39570	\$0.39570	\$0.39570	\$0.40180	\$0.39878		
Load served by gas reserves	4,642,472	4,866,886	4,857,608	4,455,023	4,965,217	5,407,127	6,083,221	6,363,430	6,949,454	7,778,473	7,578,804	8,422,715	72,370,431		
Gas Reserves cost	\$2,687,293	\$2,982,755	\$2,732,929	\$2,679,036	\$2,836,568	\$3,020,935	\$3,291,580	\$3,429,681	\$3,673,273	\$4,065,061	\$3,974,269	\$4,302,099	\$39,675,478		
Gas Reserves price per therm	\$0.57885	\$0.61287	\$0.56261	\$0.60135	\$0.57129	\$0.55869	\$0.54109	\$0.53897	\$0.52857	\$0.52260	\$0.52439	\$0.51077	\$0.54823		
Washington percentage of total load (line 36 ÷ line 37)	9.9%	10.1%	10.0%	10.0%	9.8%	9.4%	9.4%	9.9%	9.9%	9.9%	9.8%	9.4%	9.8%		
Total System Commodity Cost (line 14 above)	\$31,693,614	\$46,376,579	\$45,139,887	\$37,446,210	\$32,589,467	\$22,519,581	\$14,218,573	\$11,734,831	\$11,879,279	\$12,083,817	\$11,877,095	\$19,284,744	\$296,843,676		
Less: Commodity Cost of Rockies Hedged Supplies (from line 43)	\$5,874,938	\$6,109,829	\$5,478,591	\$3,249,180	\$2,228,225	\$2,640,000	\$2,693,125	\$1,426,500	\$905,200	\$905,200	\$876,000	\$2,757,450	\$35,144,237		
Less: Commodity Cost of Gas Reserves (from line 12)	\$2,687,293	\$2,982,755	\$2,732,929	\$2,679,036	\$2,836,568	\$3,020,935	\$3,291,580	\$3,429,681	\$3,673,273	\$4,065,061	\$3,974,269	\$4,302,099	\$39,675,478		
Total System Commodity Cost excluding Rockies hedged & Gas Reserves	\$23,131,384	\$37,283,996	\$36,928,367	\$31,517,993	\$27,524,675	\$16,858,646	\$8,233,868	\$6,878,649	\$7,300,806	\$7,113,556	\$7,026,826	\$12,225,195	\$222,023,962		
Total System Load Served (from line 29)	83,538,823	116,703,084	113,929,981	92,519,425	81,647,568	58,912,325	35,490,129	28,578,193	29,128,993	29,283,968	28,682,030	47,896,681	746,311,200		
Less: load from Rockies hedged supplies (from line 32)	14,758,500	15,250,450	13,725,405	8,067,980	5,482,570	6,641,325	6,862,703	3,689,625	2,287,568	2,287,568	2,213,775	6,862,703	88,130,170		
Less: load served by gas reserves (from line 32)	4,642,472	4,866,886	4,857,608	4,455,023	4,965,217	5,407,127	6,083,221	6,363,430	6,949,454	7,778,473	7,578,804	8,422,715	72,370,431		
Total System load excluding Rockies hedged & Gas Reserves	64,137,851	96,585,748	95,346,968	79,996,422	71,199,781	46,863,873	22,544,205	18,525,138	19,891,972	19,217,927	18,889,451	32,611,263	585,810,599		
System price excluding Rockies hedged & Gas Reserves (line 55 ÷ line 72)	\$0.36065	\$0.38602	\$0.38731	\$0.39399	\$0.38658	\$0.35974	\$0.36523	\$0.37131	\$0.36702	\$0.37015	\$0.37200	\$0.37488	\$0.37900		
Washington allocation of Rockies hedged supply															
Rockies hedged supply needed for Washington (line 50 * (line 42 + line 46))	1,920,696	2,031,851	1,858,301	1,252,300	1,023,883	1,132,554	1,216,917	995,252	914,465	996,538	959,673	1,436,829	15,739,259		
Cost of Rockies hedged supply allocated to Washington (line 65 * line 44)	\$764,571	\$814,020	\$741,759	\$504,339	\$416,127	\$450,202	\$477,555	\$384,784	\$361,854	\$394,330	\$379,743	\$577,318	\$6,266,602		
Washington portfolio															
Volumes															
Total Washington load	8,232,385	11,734,070	11,416,999	9,239,180	7,999,615	5,561,204	3,341,243	2,839,017	2,891,821	2,889,861	2,805,854	4,495,046	73,446,295		
Washington load met by Rockies hedged supply	1,920,696	2,031,851	1,858,301	1,252,300	1,023,883	1,132,554	1,216,917	995,252	914,465	996,538	959,673	1,436,829	15,739,259		
Remaining Washington load	6,311,689	9,702,219	9,558,698	7,986,880	6,975,732	4,428,650	2,124,326	1,843,765	1,977,356	1,893,323	1,846,181	3,058,217	57,707,036		
Cost															
Cost of Rockies hedged supply allocated to Washington (line 66)	\$764,571	\$814,020	\$741,759	\$504,339	\$416,127	\$450,202	\$477,555	\$384,784	\$361,854	\$394,330	\$379,743	\$577,318	\$6,266,602		
Cost of remaining Washington load (line 72 * line 62)	\$2,276,311	\$3,745,251	\$3,702,179	\$3,146,751	\$2,696,678	\$1,593,163	\$775,868	\$684,608	\$725,729	\$700,814	\$686,779	\$1,146,464	\$21,880,595		
Total cost of Washington portfolio	\$3,040,882	\$4,559,271	\$4,443,939	\$3,651,090	\$3,112,805	\$2,043,364	\$1,253,422	\$1,069,393	\$1,087,583	\$1,095,144	\$1,066,522	\$1,723,782	\$28,147,196		
Washington Sales WACOG (line 77 ÷ line 70)	\$0.36938	\$0.38855	\$0.38924	\$0.39517	\$0.38912	\$0.36743	\$0.37514	\$0.37668	\$0.37609	\$0.37896	\$0.38011	\$0.38348	\$0.38324		
WASHINGTON BILLING WACOG	\$0.38627	\$0.40631	\$0.40704	\$0.41324	\$0.40691	\$0.38423	\$0.39229	\$0.39390	\$0.39328	\$0.39629	\$0.39749	\$0.40101	\$0.40076		

NW Natural
2013-2014 PGA - SYSTEM: August Filing
Calculation of Winter WACOG
Prices are per therm

1	Forecast price for AECO gas:		
2			
3		<u>AECO/NIT</u>	
4			
5	November	\$0.31622	
6	December	\$0.33008	
7	January	\$0.33424	
8	February	\$0.33460	
9	March	\$0.33192	
10	April	\$0.32446	
11	May	\$0.32579	
12	June	\$0.32819	
13	July	\$0.33071	
14	August	\$0.33245	
15	September	\$0.33305	
16	October	\$0.33673	
17			
18			
19	Average price, November-March	\$0.32941	average lines 5-9
20			
21	Annual average price, November-October	\$0.32987	average lines 5-16
22			
23	Ratio of winter to annual	0.99861	line 19 ÷ line 21
24			
25		Without Rev	WITH Rev
26		<u>Sensitive</u>	<u>Sensitive</u>
OR	Oregon Annual WACOG	\$0.39933	\$0.41018
OR	Oregon Winter WACOG	\$0.39877	\$0.40960
		line 23 * \$0.39933	
WA	Washington Annual WACOG	\$0.38324	\$0.40076
WA	Washington Winter WACOG	\$0.38271	\$0.40021
		line 23 * \$0.38324	