ONITA R. KING

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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: <u>Annual Purchased Gas Cost Adjustment; Deferred Gas Cost Amortization</u>
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. <u>Introduction and Summary</u>

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

Washington Utilities & Transportation Commission NWN WUTC Advice No. 13-4 August 30, 2013; Page 2

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. <u>Temporary Rate Adjustments</u>

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

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(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 <a href="https://www.nwnatural.com">www.nwnatural.com</a>.

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 NW Natural 220 NW Second Avenue Portland, Oregon 97209

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Sincerely,

**NW NATURAL** 

/s/ Onita R. King

Onita R. King Rates & Regulatory Affairs

Attachments: Supporting Materials

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Washington natural gas safety and consumer information • SEPTEMBER 2013 • nwnatural.com

#### 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

SCHEDULE 1		SCHEDULE 2		SCHEDULE 3		SCHEDULE 10			
GENERAL SALES SERVI	<u>CE</u>	RESIDENTIAL SALES SERV	ICE	BASIC FIRM SALES SERVI	<u>CE</u>	<u>s</u>	SPECIAL METER	RING EQUIPMENT	
Usage Charges:		Usage Charges:		Usage Charges:		Meter Size:			
Customer Charge	\$3.47	Customer Charge	\$7.00	Customer Charge	\$15.00	First 150 CF/hr./mo. Capacity	\$0.40628		
Res'l Usage Charge (per therm):	\$1.22951	All therms	\$0.94244	Commercial All therms	\$0.94320	Next 800 CF/hr./mo. Capacity	\$0.00165	+minimum monthly rental charge	
Com'l Usage Charge (per therm):	\$1.21979	Minimum Monthly Bill	\$7.00	Industrial All therms	\$0.92310	All add'l CF/hr./mo. Capacity	\$0.00241	+minimum monthly rental charge	
, ,				Minimum Monthly Bill	\$15.00	Minimum Monthly Rental	\$0.40628	, , , , , , , , , , , , , , , , , , , ,	
Minimum Monthly Bill	\$3.47			, ,	*	Charge for Meter Reading	\$0.36		
·									
SCHEDULE 27		SCHEDULE 41		SCHEDULE 42		SCHEDULE 42			
RESIDENTIAL HEATING DRY-OU	T SERVICE	NON-RESIDENTIAL SALES SE	RVICE	LARGE VOLUME NON-RESIDE	NTIAL	LARGE VOLUME NON-RES	IDENTIAL	OTHER CHARGES:	
		-		FIRM SALES SERVICE		INTERRUPTIBLE SALES S	ERVICE		
Usage Charge:						-		Telemetry Charge (per month)	\$127.00
Customer Charge	\$6.00	Customer Charge:	\$250.00	Customer Charge:	\$1,300.00	Customer Charge:	\$1,300.00	Standard Unauthorized Use:	\$ 2.00/th
Per therm, all therms	\$0.77644	Volumetric Charges:		_		Volumetric Charges: Industrial		Unauthorized Use - Violation	\$10.00/th
Minimum Monthly Bill:	\$6.00			Commercial Volumetric Charges:		1st 10,000 therms:	\$0.50036	of Curtailment Order	•
·		Commercial Firm Service:		1st 10,000 therms:	\$0.49212	Next 20,000 therms:	\$0.48782		
		1st 2,000 therms:	\$0.68165	Next 20,000 therms:	\$0.47849	Next 20,000 therms:	\$0.46283	3	
		All additional therms:	\$0.64367	Next 20,000 therms:	\$0.45138	Next 100,000 therms:	\$0.44639		
		Industrial Firm Service:		Next 100,000 therms:	\$0.43352	Next 600,000 therms:	\$0.42446		
		1st 2,000 therms:	\$0.66635	Next 600,000 therms:	\$0.40973	All additional therms:	\$0.39706		
		All additional therms:	\$0.63019	All additional therms:	\$0.37998	Volumetric Charges: Commercial			
		<u>Plus</u>		Industrial Volumetric Charges:		1st 10,000 therms:	\$0.50571		
				1st 10,000 therms:	\$0.48230	Next 20,000 therms:	\$0.49258		
		Pipeline Capacity Charges*:		Next 20,000 therms:		Next 20,000 therms:	\$0.46648		
		Firm (MDDV):	\$2.08	Next 20,000 therms:		Next 100,000 therms:	\$0.44931		
		Firm (per therm):	\$0.13961	Next 100,000 therms:	\$0.42813	Next 600,000 therms:	\$0.42641		
		, ,		Next 600,000 therms:	\$0.40614	All additional therms:	\$0.39779		
		Commercial Interruptible Service:		All additional therms:	\$0.37862	<u>Plus</u>			
		1st 2,000 therms:	\$0.69916		*				
		All additional therms:	\$0.66127	Plus		Pipeline Capacity Chg. per therm:	\$0.04876		
		Industrial Interruptible Service:	,						
		1st 2.000 therms:	\$0.68446	Storage Charge (per MDDV)	\$0.20415	<u>Plus</u>			
		All additional therms:		Distribution Capacity Chg. (MDDV)	\$0.15748				
				Firm Pipeline Capacity Charges*:	***************************************	Storage Charge per MDDV:	\$0.10208		
		Plus		Per MDDV:	\$2.08		Ţ <b>.</b>		
		Pipeline Capacity Charge		Per therm:		Minimum Monthly Bill:			
		(per therm):	\$0.04876		*	Customer Charge, plus Volumetric C	Charges, plus		
		(4	*********			Pipeline Capacity Charge, plus Stora			
		Minimum Monthly Bill:		Minimum Monthly Bill:				J	
		Customer Charge, plus Volumetric Ch		Customer Charge, plus Volumetric Ch	arges, plus				70
		applicable Pipeline Capacity Ch		applicable Pipeline Capacity Charge, plu					S
			-	and Distribution Charges.	· ·				RATE
				1		I			ш



#### **WASHINGTON**

#### SUMMARY OF MONTHLY <u>TRANSPORTATION SERVICE</u> BILLING RATES

#### **EFFECTIVE: November 1, 2013**

SCHEDULE 41		SCHEDULE 42		SCHEDULE 43			
NON-RESIDENTIAL		LARGE VOLUME NON-RESIDENTIAL		HIGH-VOLUME NON-RESIDENTIAL		OTHER CHARGES:	
TRANSPORTATION SERVICE		FIRM TRANSPORTATION SERVICE		TRANSPORTATION SERVICE			
Customer Charge:	\$250.00	Customer Charge:	\$1,300.00	Customer Charge:	\$38,000.00	Monthly Telemetry Charge:	\$127.00
Transportation Charge:	\$250.00	Transportation Charge:	\$250.00	Transportation Charge:	\$250.00	Standard Unauthorized Use:	\$2.00/th
						Unauthorized Use - Violation	
Volumetric Charges:		Volumetric Charges:		Volumetric Charges:		of Curtailment Order:	\$10.00/th
1st 2,000 therms:	\$0.29891	1st 10,000 therms:	\$0.11740	All therms:	\$0.00496		
All additional therms:	\$0.26336	Next 20,000 therms:	\$0.10509			Annual Sales WACOG:	\$0.40076
		Next 20,000 therms:	\$0.08058			Winter Sales WACOG:	\$0.40021
Minimum Monthly Bill:	\$500.00	Next 100,000 therms:	\$0.06447				
· ·		Next 600,000 therms:	\$0.04298				
		All additional therms:	\$0.01611				
				If Firm Service, ADD:			
		Firm Distribution Capacity Chg. (MDDV)	\$0.15748	Distribution Capacity Chg. (MDDV)	\$0.15748		
		,		, ,			
		Minimum Monthly Bill:	\$1,550.00	Minimum Monthly Bill:	\$38,250.00		
		Plus for Firm Service: Distribution Capacity Charge		Plus for Firm Service: Distribution Capacity Charge			
				DENIAL TV OLLABORO			
		SCHEDULE 42 LARGE VOLUME NON-RESIDENTIAL		PENALTY CHARGES:			
				Balancing Charge (excess over 5%)	\$1.00/therm		
		INTERRUPTIBLE TRANSPORTATION SER	VICE	Entitlement Overrun Charges:	\$1.00/merm		
		Customer Charge:	\$1 300 00	Excess < threshold + 2%	\$0.50/therm		
		Transportation Charge:	. ,	Excess > threshold + 2%	\$1.00/therm		
		Transportation onarge.	Ψ230.00	Entitlement Underrun Charges:	ψ1.00/11/01/11		
		Volumetric Charges:		5% to 10%	\$0.50/therm		
		1st 10,000 therms:	\$0.11746	Over 10%	\$1.00/therm		
		Next 20,000 therms:		Underrun not cleared	\$1.00/therm		
		Next 20,000 therms:	\$0.08063				
		Next 100,000 therms:	\$0.06451			-	
		Next 600,000 therms:	\$0.04301				_
		All additional therms:	\$0.01612				RAT
		Minimum Monthly Bill:	\$1,550.00				4



Issued August 30, 2013 NWN WUTC Advice No. 13-4 Effective with service on and after November 1, 2013

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

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

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

(continue to Sheet 101.2)

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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

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

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

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

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 CHARG	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 MH	\$5.00				

- [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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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

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

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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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 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]:					
Customer Charge (per month):					
Volumetric Charges (per therm)	Base Rate	Commo Compor [2]	nent	Total Femporary djustments [3]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.30130	\$0.400	)76 \$	(0.02041)	\$0.68165
Block 2: All additional therms	\$0.26549	\$0.400	)76 \$	(0.02258)	\$0.64367
Pipeline Capacity Charge Options (	select one):				
Firm Pipeline Capacity Charge - Volu	metric option (pe	therm):			\$0.13961
Firm Pipeline Capacity Charge - Peak	Demand option	(per therm of MDDV):			\$2.08
INTERRUPTIBLE SALES SERVICE	CHARGES (C41	SI) [1]:			
Customer Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Commo Compor [2]	ent.	Total Femporary djustments [3]	
Block 1: 1 <sup>st</sup> 2,000 therms	\$0.30108	\$0.400	)76 \$	(0.00268)	\$0.69916
Block 2: All additional therms	\$0.26527	\$0.400	)76 \$	(0.00476)	\$0.66127
Plus: Interruptible Pipeline Capacity (	Charge - Volume	ric (per therm):			\$0.04876
FIRM TRANSPORTATION SERVICE	CHARGES (C4	1TF):			
Customer Charge (per month):					\$250.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate			Total Femporary djustments [4]	
Block 1: 1st 2,000 therms	\$0.30077		\$	(0.00186)	\$0.29891
Block 2: All additional therms	\$0.26500		\$	(0.00164)	\$0.26336

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.

(continue to Sheet 141.10)

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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.

<sup>[3]</sup> 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.

<sup>[4]</sup> 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.

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 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 <sup>st</sup> 2,000 therms	\$0.30133	\$0.40076	\$(0.03574)	\$0.66635
Block 2: All additional therms	\$0.26551	\$0.40076	\$(0.03608)	<b>\$</b> 0.63019
<b>Pipeline Capacity Charge Options</b>	(select one):			
Firm Pipeline Capacity Charge - Volu	metric option (per ther	m):		\$0.13961
Firm Pipeline Capacity Charge - Pea	k Demand option (per t	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 <sup>st</sup> 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 (p	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: 1st 2,000 therms	\$0.30077		\$(0.00186)	\$0.29891
Block 2: All additional therms	\$0.26500		\$(0.00164)	\$0.26336

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.

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

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.

<sup>[3]</sup> 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.

<sup>[4]</sup> 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.

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 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 CHARGE	Billing Rates			
Customer Charge (per month, all s	\$1,300.00			
	Base Rate	Commodity Component [2]	Total Temporary Adjustments [3]	
42 CSF Volumetric Charges (p	er therm):			
Block 1: 1st 10,000 therms Block 2: Next 20,000 therms Block 3: Next 20,000 therms Block 4: Next 100,000 therms Block 5: Next 600,000 therms Block 6: All additional therms	\$0.11854 \$0.10611 \$0.08138 \$0.06510 \$0.04340 \$0.01627	\$0.40076 \$0.40076 \$0.40076 \$0.40076 \$0.40076 \$0.40076	\$(0.02718) \$(0.02838) \$(0.03076) \$(0.03234) \$(0.03443) \$(0.03705)	\$0.49212 \$0.47849 \$0.45138 \$0.43352 \$0.40973 \$0.37998
42 ISF Volumetric Charges (pe	er therm):			
Block 1: 1st 10,000 therms Block 2: Next 20,000 therms Block 3: Next 20,000 therms Block 4: Next 100,000 therms Block 5: Next 600,000 therms Block 6: All additional therms	\$0.11851 \$0.10608 \$0.08135 \$0.06508 \$0.04340 \$0.01626	\$0.40076 \$0.40076 \$0.40076 \$0.40076 \$0.40076 \$0.40076	\$(0.03697) \$(0.03715) \$(0.03749) \$(0.03771) \$(0.03802) \$(0.03840)	\$0.48230 \$0.46969 \$0.44462 \$0.42813 \$0.40614 \$0.37862
Firm Service Distribution Capacity	Charge (per therm of	of MDDV per month):		\$0.15748
Firm Sales Service Storage Charg		DV per month):		\$0.20415
Pipeline Capacity Charge Option	,			
Firm Pipeline Capacity Charge - V	olumetric option (pe	r therm):		\$0.13961
Firm Pipeline Capacity Charge - P	eak Demand option	(per therm of MDDV per	month):	\$2.08

- [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.
- 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

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.

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

<sup>[2]</sup> 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 142.11)

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<sup>[3]</sup> 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.

<sup>[4]</sup> 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.

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.

FIRM TRANSPORTATION SERV	ICE CHARGES	(I42TF and C42T	<u>F) [</u> 1]:	Billing Rates				
Customer Charge (per month):				\$1,300.00				
Transportation Charge (per month):								
Volumetric Charges (per therm)	Base Rate		Total Temporary Adjustments [2]					
Block 1: 1 <sup>st</sup> 10,000 therms Block 2: Next 20,000 therms Block 3: Next 20,000 therms Block 4: Next 100,000 therms Block 5: Next 600,000 therms Block 6: All additional therms	\$0.11818 \$0.10579 \$0.08112 \$0.06490 \$0.04327 \$0.01622		\$(0.00078) \$(0.00070) \$(0.00054) \$(0.00043) \$(0.00029) \$(0.00011)	\$0.11740 \$0.10509 \$0.08058 \$0.06447 \$0.04298 \$0.01611				
Firm Service Distribution Capacity	Charge (per the	erm of MDDV per i	month):	\$0.15748				
INTERRUPTIBLE TRANSPORTA	TION SERVICE	CHARGES (142T	Tand 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 <sup>st</sup> 10,000 therms Block 2: Next 20,000 therms Block 3: Next 20,000 therms Block 4: Next 100,000 therms Block 5: Next 600,000 therms Block 6: All additional therms	\$0.11818 \$0.10579 \$0.08112 \$0.06490 \$0.04327 \$0.01622		\$(0.00072) \$(0.00064) \$(0.00049) \$(0.00039) \$(0.00026) \$(0.00010)	\$0.11746 \$0.10515 \$0.08063 \$0.06451 \$0.04301 \$0.01612				

<sup>[1]</sup> 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.

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<sup>[2]</sup> 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.

<sup>[3]</sup> 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.

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

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.

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**.

[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

### 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

Description	Page			
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Calculation of Winter WACOG	10			

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

1 2 3 4			11/1/2012 Billing Rates	Net change WACOG	Net change Demand [1]	Proposed Rates PGA Only [1] D=A+B+C	Net change Temporary Increments	Proposed 11/1/2013 Billing Rates [1] F=D+E
5 6	Schedule	Block	A	В	С	D=A+B+C D	E	F=D+E F
7	1R	DIOCK	1.21592	0.01417	(0.00078)	1.22931	0.00020	1.22951
8	1C		1.20611	0.01417	(0.00078)	1.21950	0.00029	1.21979
9	2R		0.93022	0.01417	(0.00078)	0.94361	(0.00117)	0.94244
10	3 CFS		0.93197	0.01417	(0.00078)	0.94536	(0.00216)	0.94320
11	3 IFS		0.91994	0.01417	(0.00078)	0.93333	(0.01023)	0.92310
12	27		0.76588	0.01417	(0.00078)	0.77927	(0.00283)	0.77644
13	41C Firm Sales	Block 1	0.67049	0.01417	0.00000	0.68466	(0.00301)	0.68165
14		Block 2	0.63290	0.01417	0.00000	0.64707	(0.00340)	0.64367
15	41C Interr Sales	Block 1	0.67900	0.01417	0.00000	0.69317	0.00599	0.69916
16		Block 2	0.64148	0.01417	0.00000	0.65565	0.00562	0.66127
17	41 Firm Trans	Block 1	0.30077	0.00000	0.00000	0.30077	(0.00186)	0.29891
18	41I Firm Sales	Block 2	0.26500	0.00000	0.00000	0.26500	(0.00164)	0.26336
19 20	411 FITTI Sales	Block 1 Block 2	0.66199 0.62540	0.01417 0.01417	0.00000	0.67616 0.63957	(0.00938)	0.66635 0.63019
21	41I Interr Sales	Block 1	0.67088	0.01417	0.00000	0.68505	(0.0059)	0.68446
22	TII IIILEII Jaies	Block 1	0.63433	0.01417	0.00000	0.64850	(0.00039)	0.64832
23	42C Firm Sales	Block 1	0.48281	0.01417	0.00000	0.49698	(0.00486)	0.49212
24	120 1 1111 50105	Block 2	0.46934	0.01417	0.00000	0.48351	(0.00502)	0.47849
25		Block 3	0.44250	0.01417	0.00000	0.45667	(0.00529)	0.45138
26		Block 4	0.42485	0.01417	0.00000	0.43902	(0.00550)	0.43352
27		Block 5	0.40131	0.01417	0.00000	0.41548	(0.00575)	0.40973
28		Block 6	0.37188	0.01417	0.00000	0.38605	(0.00607)	0.37998
29	42I Firm Sales	Block 1	0.47623	0.01417	0.00000	0.49040	(0.00810)	0.48230
30		Block 2	0.46344	0.01417	0.00000	0.47761	(0.00792)	0.46969
31		Block 3	0.43798	0.01417	0.00000	0.45215	(0.00753)	0.44462
32		Block 4	0.42123	0.01417	0.00000	0.43540	(0.00727)	0.42813
33		Block 5	0.39891	0.01417	0.00000	0.41308	(0.00694)	0.40614
34	40 F: T	Block 6	0.37097	0.01417	0.00000	0.38514	(0.00652)	0.37862
35	42 Firm Trans	Block 1	0.11818	0.00000	0.00000	0.11818	(0.00078)	0.11740
36 37		Block 2 Block 3	0.10579 0.08112	0.00000 0.00000	0.00000 0.00000	0.10579 0.08112	(0.00070) (0.00054)	0.10509 0.08058
38		Block 4	0.06490	0.00000	0.00000	0.06112	(0.00034)	0.06038
39		Block 5	0.04327	0.00000	0.00000	0.04327	(0.00043)	0.04298
40		Block 6	0.01622	0.00000	0.00000	0.01622	(0.00023)	0.01611
41	42C Interr Sales	Block 1	0.48791	0.01417	0.00000	0.50208	0.00363	0.50571
42		Block 2	0.47485	0.01417	0.00000	0.48902	0.00356	0.49258
43		Block 3	0.44889	0.01417	0.00000	0.46306	0.00342	0.46648
44		Block 4	0.43181	0.01417	0.00000	0.44598	0.00333	0.44931
45		Block 5	0.40904	0.01417	0.00000	0.42321	0.00320	0.42641
46		Block 6	0.38058	0.01417	0.00000	0.39475	0.00304	0.39779
47	42I Interr Sales	Block 1	0.48480	0.01417	0.00000	0.49897	0.00139	0.50036
48		Block 2	0.47207	0.01417	0.00000	0.48624	0.00158	0.48782
49		Block 3	0.44676	0.01417	0.00000	0.46093	0.00190	0.46283
50		Block 4	0.43012	0.01417	0.00000	0.44429	0.00210	0.44639
51		Block 5	0.40791	0.01417	0.00000	0.42208	0.00238	0.42446
52 53	42 Inter Trans	Block 6 Block 1	0.38016 0.11818	0.01417 0.00000	0.00000	0.39433 0.11818	0.00273 (0.00072)	0.39706 0.11746
53 54	72 111101 110115	Block 1	0.11616	0.00000	0.00000	0.11616	(0.00072)	0.11746
55		Block 3	0.10379	0.00000	0.00000	0.08112	(0.00049)	0.08063
56		Block 4	0.06490	0.00000	0.00000	0.06490	(0.00039)	0.06451
57		Block 5	0.04327	0.00000	0.00000	0.04327	(0.00026)	0.04301
58		Block 6	0.01622	0.00000	0.00000	0.01622	(0.00010)	0.01612
59	43 Firm Trans		0.00499	0.00000	0.00000	0.00499	(0.00003)	0.00496
60	43 Interr Trans		0.00499	0.00000	0.00000	0.00499	(0.00003)	0.00496
61	Intentionally blank			<u> </u>		<u> </u>	<u> </u>	
62 63	Sources							

#### Sources:

63

64 65 66

67 68

<del>504.005.</del>					
Direct Inputs	12-13 PGA				
Rates in detail		Column F - B	Column G+H-C-D	Column K - J	

<sup>[1]</sup> 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. WUTC Advice 13-4 Supporting Materials.xlsx 8/30/2013 2:36 PM

**NW Natural** Rates & Regulatory Affairs 2013-2014 PGA Filing - Washington: August Filing PGA Effects on Average Bill by Rate Schedule

		Calculation of Effect on Customer Average Bill by Rate Schedule [1]														
		Washington PGA Normalized		Normal Therms	Minimum	Current 11/1/2012	11/1/2012	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013	Proposed 11/1/2013
		Volumes page,	Therms in	Monthly	Monthly	Billing	Current	PGA Only	PGA Only	PGA Only	Temp Only	Temp Only	Temp Only	Total	Total	Total
		Column D	Block	Average use	Charge	Rates	Average Bill F=D+(C * E)	Rates	Average Bill H=D+(C * G)	% Bill Change I =(H - F)/F	Rates	Average Bill K=D+(C * J)	% Bill Change L =(K - F)/F	Rates	Average Bill N=D+(C * M)	% Bill Chang
Schedule	Block	Α	В	С	D	E	F	G	H H	I -(H-F)/F	3	K-D+(C * 3)	L -(K-F)/F	м	N-DT(C * M)	0 -(N-F)/1
1R		150,638	N/A	16.0	3.47	1.21592	22.92	1.22931	23.14	1.0%	1.21612	22.93	0.0%	1.22951	23.14	1.00
1C		64,959	N/A	180.0	3.47	1.20611	220.57	1.21950	222.98	1.1%	1.20640	220.62	0.0%	1.21979	223.03	1.10
2R		43,453,885	N/A	55.0	7.00	0.93022	58.16	0.94361	58.90	1.3%	0.92905	58.10	-0.1%	0.94244	58.83	1.20
3 CFS 3 IFS		17,889,381 490,108	N/A N/A	274.0 2,553.0	15.00 15.00	0.93197	270.36 2,363.61	0.94536 0.93333	274.03 2,397.79	1.4% 1.4%	0.92981 0.90971	269.77 2,337.49	-0.2% -1.1%	0.94320 0.92310	273.44 2,371.67	1.1 <sup>0</sup> 0.3 <sup>0</sup>
27		161,364	N/A	36.0	6.00	0.76588	33.57	0.77927	34.05	1.4%	0.76305	33.47	-0.3%	0.77644	33.95	1.10
41C Firm Sales	Block 1	2,139,658	2,000	3,901.0	250.00	0.67049		0.68466			0.66748			0.68165		
	Block 2 TOTAL	2,073,319	all additional			0.63290	2,794.12	0.64707	2,849.40	2.0%	0.62950	2,781,64	-0.4%	0.64367	2,836.92	1.5%
11C Interr Sales	Block 1	0	2,000	0.0	250.00	0.67900	2,734.12	0.69317	2,049.40	2.0%	0.68499	2,701.04	-0.470	0.69916	2,030.92	1.5
ize znem bales	Block 2		all additional	0.0	250.00	0.64148		0.65565			0.64710			0.66127		
	TOTAL						250.00		250.00	0.0%		250.00	0.0%		250.00	0.09
41 Firm Trans	Block 1	47,796	2,000	5,739.0	500.00	0.30077		0.30077			0.29891			0.29891		
	Block 2 TOTAL	89,936	all additional			0.26500	2,092.38	0.26500	2,092.38	0.0%	0.26336	2,082.52	-0.5%	0.26336	2,082.52	-0.59
41I Firm Sales	Block 1	199,295	2,000	3,835.0	250.00	0.66199	2,092.30	0.67616	2,092.30	0.070	0.65218	2,002.32	-0.570	0.66635	2,002.32	-0.5
	Block 2	214,880	all additional	-,		0.62540		0.63957			0.61602			0.63019		
	TOTAL						2,721.59		2,775.93	2.0%		2,684.76	-1.4%		2,739.10	0.69
41I Interr Sales	Block 1	0	2,000	0.0	250.00	0.67088		0.68505			0.67029			0.68446		
	Block 2 TOTAL	U	all additional			0.63433	250.00	0.64850	250.00	0.0%	0.63415	250.00	0.0%	0.64832	250.00	0.09
42C Firm Sales	Block 1	679,000	10,000	11,896.0	1,300.00	0.48281	250.00	0.49698	230.00	0.0 70	0.47795	250.00	0.0 70	0.49212	250.00	0.0
	Block 2	301,144	20,000	•		0.46934		0.48351			0.46432			0.47849		
	Block 3	19,118	20,000			0.44250		0.45667			0.43721			0.45138		
	Block 4 Block 5	0	100,000 600,000			0.42485 0.40131		0.43902 0.41548			0.41935 0.39556			0.43352 0.40973		
	Block 6	0	all additional			0.37188		0.38605			0.36581			0.37998		
	TOTAL						7,017.97		7,186.53	2.4%		6,959.85	-0.8%		7,128.42	1.69
42I Firm Sales	Block 1	1,079,174	10,000	14,987.0	1,300.00	0.47623		0.49040			0.46813			0.48230		
	Block 2	786,160	20,000			0.46344		0.47761			0.45552			0.46969		
	Block 3 Block 4	270,853 21,904	20,000 100,000			0.43798 0.42123		0.45215 0.43540			0.43045 0.41396			0.44462 0.42813		
	Block 5	21,304	600,000			0.39891		0.41308			0.39197			0.40614		
	Block 6	0				0.37097		0.38514			0.36445			0.37862		
	TOTAL						8,373.48		8,585.84	2.5%		8,252.98	-1.4%		8,465.34	1.19
42 Firm Trans	Block 1 Block 2	982,602 945,098	10,000 20,000	45,302.0	1,550.00	0.11818 0.10579		0.11818 0.10579			0.11740 0.10509			0.11740 0.10509		
	Block 3	720,000	20,000			0.10379		0.10379			0.08058			0.10309		
	Block 4	1,495,095	100,000			0.06490		0.06490			0.06447			0.06447		
	Block 5	749,810	600,000			0.04327		0.04327			0.04298			0.04298		
	Block 6	0	all additional			0.01622		0.01622			0.01611			0.01611		
12C Interr Sales	TOTAL Block 1	504,693	10,000	92,362.0	1,300.00	0.48791	6,088.90	0.50208	6,088.90	0.0%	0.49154	6,058.84	-0.5%	0.50571	6,058.84	-0.5
AZC TITLETT SaleS	Block 2	958,087	20,000	92,302.0	1,300.00	0.47485		0.48902			0.47841			0.49258		
	Block 3	494,816	20,000			0.44889		0.46306			0.45231			0.46648		
	Block 4	259,089	100,000			0.43181		0.44598			0.43514			0.44931		
	Block 5	0	600,000			0.40904		0.42321			0.41224			0.42641		
	Block 6 TOTAL	0	all additional			0.38058	42,946,24	0.39475	44,255.00	3.0%	0.38362	43,263.20	0.7%	0.39779	44,571.97	3.89
42I Interr Sales	Block 1	720,387	10,000	25,724.0	1,300.00	0.48480	42,940.24	0.49897	44,233.00	3.070	0.48619	+3,203.20	0.7 70	0.50036	44,371.37	3.0
	Block 2	478,052	20,000	•		0.47207		0.48624			0.47365			0.48782		
	Block 3	36,334	20,000			0.44676		0.46093			0.44866			0.46283		
	Block 4	0	100,000			0.43012		0.44429			0.43222			0.44639		
	Block 5 Block 6		600,000 all additional			0.40791 0.38016		0.42208 0.39433			0.41029 0.38289			0.42446 0.39706		
	TOTAL	U	an additional			0.30010	13,570.83	0.55755	13,935.34	2.7%	0.30209	13,609.57	0.3%	0.33700	13,974.08	3.09
42 Inter Trans	Block 1	846,474	10,000	73,085.0	1,550.00	0.11818		0.11818			0.11746			0.11746		
	Block 2	1,573,592	20,000			0.10579		0.10579			0.10515			0.10515		
	Block 3	1,144,957 3,778,518	20,000 100,000			0.08112 0.06490		0.08112 0.06490			0.08063			0.08063 0.06451		Ī
	Block 4 Block 5	2,303,680	600,000			0.06490		0.06490			0.06451 0.04301			0.06451		
	Block 6	2,303,000				0.01622		0.01622			0.01612			0.01612		Ī
	TOTAL						7,968.22		7,968.22	0.0%		7,929.41	-0.5%		7,929.41	-0.5
		0	N/A N/A	0.0	38,000.00 38,000.00	0.00499	38,000.00 38,000.00	0.00499	38,000.00 38,000.00	N/A	0.00496	38,000.00	N/A	0.00496	38,000.00	N/A
43 Firm Trans 43 Interr Trans		0								N/A	0.00496	38,000.00	N/A	0.00496	38,000.00	N/A

74 75 76 77

Sources: Direct Inputs per Tariff per Tariff Col A + Col E Rates in summary Column A Column D Column G

<sup>2 [1]</sup> 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 included in the calculations for those schedules.

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

2			REMOVE	ADD	ADD	ADD	ADD	ADD	ADD	ADD		
4			Current Temporaries	WACOG Deferral	Demand Deferral FIRM	Demand Deferral INTERR	R&C Energy Efficiency Programs	Low Income Bill Pay Assistance (GREAT)	WA-LIEE	Tualatin Property Gain	Total Current Temporaries	Net Effect of Temps
5	C-l	Disale			•		-	-	•		I=sum B thru H	J = I - A
6 7	Schedule 1R	Block	0.00524	(0.01023)	(0.02839)	0.00000	<b>E</b> 0.03712	<b>F</b> 0.01070	<b>G</b> 0.00044	(0.00420)	0.00544	0.00020
8	1C		(0.00324	(0.01023)	(0.02839)	0.00000	0.02917	0.00841	0.00034	(0.00329)	(0.00399)	0.00029
9	2R		(0.01081)	(0.01023)	(0.02839)	0.00000	0.02244	0.00647	0.00027	(0.00254)	(0.01198)	(0.00117)
10	3 CFS		(0.01315)	(0.01023)	(0.02839)	0.00000	0.01964	0.00566	0.00023	(0.00222)	(0.01531)	(0.00216)
11	3 IFS		(0.02510)	(0.01023)	(0.02839)	0.00000	0.00000	0.00507	0.00021	(0.00199)	(0.03533)	(0.01023)
12	27		(0.01496)	(0.01023)	(0.02839)	0.00000	0.01754	0.00506	0.00021	(0.00198)	(0.01779)	(0.00283)
13	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)
14	4407.1.01	Block 2	(0.01918)	(0.01023)	(0.02839)	0.00000	0.01351	0.00390	0.00016	(0.00153)	(0.02258)	(0.00340)
15	41C Interr Sales		(0.00867)	(0.01023)	0.00000	(0.00991)	0.01470 0.01295	0.00436 0.00384	0.00018	(0.00178)	(0.00268)	0.00599
16 17	41 Firm Trans	Block 2 Block 1	(0.01038) 0.00000	(0.01023) 0.00000	0.00000	(0.00991) 0.00000	0.01295	0.00384	0.00016 0.00000	(0.00157) (0.00186)	(0.00476)	0.00562 (0.00186)
18	41 FIIIII IIdiiS	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00164)	(0.00164)	(0.00166)
19	41I Firm Sales	Block 1	(0.02593)	(0.01023)	(0.02839)	0.00000	0.00000	0.00444	0.00018	(0.00104)	(0.03574)	(0.00104)
20	TIT THIN SUICS	Block 2	(0.02670)	(0.01023)	(0.02839)	0.00000	0.00000	0.00391	0.00016	(0.00171)	(0.03608)	(0.00938)
21	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)
22		Block 2	(0.01753)	(0.01023)	0.00000	(0.00991)	0.00000	0.00384	0.00016	(0.00157)	(0.01771)	(0.00018)
23	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)
24		Block 2	(0.02336)	(0.01023)	(0.02839)	0.00000	0.00863	0.00249	0.00010	(0.00098)	(0.02838)	(0.00502)
25		Block 3	(0.02547)	(0.01023)	(0.02839)	0.00000	0.00662	0.00191	0.00008	(0.00075)	(0.03076)	(0.00529)
26		Block 4	(0.02684)	(0.01023)	(0.02839)	0.00000	0.00529	0.00153	0.00006	(0.00060)	(0.03234)	(0.00550)
27		Block 5	(0.02868) (0.03098)	(0.01023)	(0.02839)	0.00000	0.00353	0.00102	0.00004	(0.00040)	(0.03443)	(0.00575)
28 29	42I Firm Sales	Block 6 Block 1	(0.02887)	(0.01023)	(0.02839)	0.00000	0.00132 0.00000	0.00038 0.00255	0.00002 0.00010	(0.00015)	(0.03705)	(0.00607)
30	421 FIIII Sales	Block 2	(0.02923)	(0.01023)	(0.02839)	0.00000	0.00000	0.00233	0.00010	(0.00100)	(0.03715)	(0.00792)
31		Block 3	(0.02925)	(0.01023)	(0.02839)	0.00000	0.00000	0.00228	0.00003	(0.00090)	(0.03713)	(0.00753)
32		Block 4	(0.03044)	(0.01023)	(0.02839)	0.00000	0.00000	0.00175	0.00006	(0.00055)	(0.03771)	(0.00727)
33		Block 5	(0.03108)	(0.01023)	(0.02839)	0.00000	0.00000	0.00093	0.00004	(0.00033)	(0.03802)	(0.00694)
34		Block 6	(0.03188)	(0.01023)	(0.02839)	0.00000	0.00000	0.00035	0.00001	(0.00014)	(0.03840)	(0.00652)
35	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)
36		Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00070)	(0.00070)	(0.00070)
37		Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00054)	(0.00054)	(0.00054)
38		Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00043)	(0.00043)	(0.00043)
39		Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00029)	(0.00029)	(0.00029)
40 41	42C Intern Cales	Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000 0.00007	(0.00011)	(0.00011)	(0.00011)
	42C Interr Sales		(0.01710) (0.01773)	(0.01023) (0.01023)	0.00000	(0.00991) (0.00991)	0.00562 0.00503	0.00162 0.00145	0.00007	(0.00064) (0.00057)	(0.01347) (0.01417)	0.00363 0.00356
42 43		Block 2 Block 3	(0.01773)	(0.01023)	0.00000	(0.00991)	0.00386	0.00143	0.00005	(0.00037)	(0.01417)	0.00336
44		Block 4	(0.01980)	(0.01023)	0.00000	(0.00991)	0.00300	0.00089	0.00003	(0.00035)	(0.01647)	0.00333
45		Block 5	(0.02090)	(0.01023)	0.00000	(0.00991)	0.00206	0.00059	0.00002	(0.00023)	(0.01770)	0.00320
46		Block 6	(0.02227)	(0.01023)	0.00000	(0.00991)	0.00077	0.00022	0.00001	(0.00009)	(0.01923)	0.00304
47	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
48		Block 2	(0.02052)	(0.01023)	0.00000	(0.00991)	0.00000	0.00184	0.00008	(0.00072)	(0.01894)	0.00158
49		Block 3	(0.02112)	(0.01023)	0.00000	(0.00991)	0.00000	0.00141	0.00006	(0.00055)	(0.01922)	0.00190
50		Block 4	(0.02150)	(0.01023)	0.00000	(0.00991)	0.00000	0.00113	0.00005	(0.00044)	(0.01940)	0.00210
51		Block 5	(0.02203)	(0.01023)	0.00000	(0.00991)	0.00000	0.00075	0.00003	(0.00029)	(0.01965)	0.00238
52 53	42 Inter Trans	Block 6 Block 1	(0.02269) 0.00000	(0.01023) 0.00000	0.00000	(0.00991) 0.00000	0.00000	0.00028	0.00001 0.00000	(0.00011)	(0.01996)	0.00273 (0.00072)
53 54	AS THIS HAIR	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00072)	(0.00072)	(0.00072)
55		Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00049)	(0.00049)	(0.00049)
56		Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00039)	(0.00049)	(0.00039)
57		Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00026)	(0.00026)	(0.00026)
58		Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00010)	(0.00010)	(0.00010)
59	43 Firm Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00003)	(0.00003)	(0.00003)
60	43 Interr Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	(0.00003)	(0.00003)	(0.00003)
61	Intentionally blank											
62	C											
63 64	Sources:		12-12 DCA									
65	Direct Inputs		12-13 PGA									
66	Equal ¢ per the	erm		Column D	Column G	Column J						
67	Equal % of ma			COIGITITIE	Columnii	Columnia	Column L	Column O	Column R	Column U		
68	Tariff Schedule						COMMITTE	Coluitiii O	Coluitiii K	Coluitiii U		
69	Schedule #			Sched 201	Sched 201	Sched 201	Sched 215	Sched 230, Prg J	Sched 230, Prg I	Sched 210		
0,5				-5.100 201	23100 201	25.100 201	50.00 215	ca 250, 17g 3		-500 210		

NW Natural Rates & Regulatory Affairs

2013-14 PGA Filing - Washington: August Filing

**PGA Effects on Revenue** 

1		<u>Amount</u>
2	Purchased Gas Cost Adjustment (PGA)	
3 4	Gas Cost Change	\$1,040,697
5 6	Capacity Cost Change	534,630
7 8 9	Total PGA Change	1,575,327
10 11	Temporary Rate Adjustments	
12	Proposed Temporary Increments	(1,090,107)
13 14	Removal of Current Temporary Increments	903,976
15 16	Total Net Temporary Rate Adjustment	(186,131)
17 18		
19	TOTAL OF ALL COMPONENTS OF ALL RATE CHANGES	\$1,389,196
20		
21 22		
23	2012 Washington CBR Normalized Total Revenues	\$72,888,538
24		
25	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

			Billing	WACOG &	Temps from	n							R&C Energ	y Efficiency Pro	grams	Low Income	Bill Pay Assistance	e (GREAT)		WA-LIEE		Tualat	in Property Gai	n
		PGA	Rate from	Demand from	n Temporary	,						Proposed Amount:	1,355,020	emporary Incren	nents	401,687	Temporary Increm	ents	16,501	Temporary Increm	ents	(164,456) Al	located to Rate 9	Schedules
	٧	Volumes page,	Rates page,	Rates page,	Increment pa	ge. N	MARGIN	Volumetric	Customer		Total	Revenue Sensitive Multiplier:	4,372% a	dd revenue sensi	tive factor	4,372%	add revenue sensit	ive factor	4.372%	add revenue sensit	ive factor	4.372% ad	dd revenue sensit	tive facto
		Column D	Column A	Column B+C+			Rate	Margin	Charge	Customers	Margin	Amount to Amortize:	1,416,970 t	o all residential & co	mmercial sales	420.052	All sales		17,255	All sales			classes excluding spe	
	_					Е	=B-C-D						Multiplier	Allocation to RS	Increment	Multiplier	Allocation to RS	Increment	Multiplier	Allocation to RS	Increment			Increme
Schedule	Block	A	В	С	D		E	F = E * A	G	н	I = (G*H*12)+F		j	K	L	М	N	0	P	Q	R	S	T	U
1R		150,638	1.21592	0.5269			0.68370	102,991	\$3.47	761	134,679		1.0	5,592	0.03712	1.0	1,612	0.01070	1.0	66	0.00044	1.0	(632)	(0.004
1C		64,959	1.20611	0.5269			0.68341	44,394	\$3.47	30	45,643		1.0	1,895	0.02917	1.0	546	0.00841	1.0	22	0.00034	1.0	(214)	(0.003
2R 3 CFS		43,453,885 17,889,381	0.93022 0.93197	0.5269 0.5269			0.41405 0.41814	17,992,081 7,480,266	\$7.00 \$15.00	65,321 5,440	23,479,045 8,459,466		1.0	974,921 351,263	0.02244	1.0 1.0	280,980 101,237	0.00647	1.0	11,542 4,159	0.00027 0.00023	1.0	(110,231) (39,716)	(0.00
3 IFS		490,108	0.93197	0.5269			0.41806	204,895	\$15.00	3,440	207,775		0.0	331,203	0.00000	1.0	2,486	0.00507	1.0	102	0.00023	1.0	(975)	(0.00
27		161,364	0.76588	0.5269			0.25386	40,964	\$6.00	378	68,180		1.0	2.831	0.01754	1.0	816	0.00506	1.0	34	0.00021	1.0	(320)	(0.00
IC Firm Sales E	Block 1	2,139,658	0.67049	0.3865			0.30130	1,195,124	\$250.00	90	1,465,124		1.0	60,836	0.01534	1.0	17,534	0.00442	1.0	720	0.00018	1.0	(6,879)	(0.00
E	Block 2	2,073,319	0.63290	0.3865	9 (0.019)	18)	0.26549						1.0		0.01351	1.0		0.00390	1.0		0.00016	1.0		(0.00
	Block 1	0	0.67900	0.3865			0.30108	0	\$250.00	0	0		1.0	0	0.01470	1.0	0	0.00436	1.0	0	0.00018	1.0	0	(0.00
	Block 2	47.700	0.64148	0.3865			0.26527	38,209	\$500.00	-	50,209		1.0 0.0		0.01295	1.0		0.00384	1.0	^	0.00016	1.0	(236)	(0.00
	Block 1 Block 2	47,796 89,936	0.26500	0.0000			0.26500	38,209	\$500.00	2	50,209		0.0	U	0.00000	0.0	U	0.00000	0.0	0	0.00000	1.0 1.0	(236)	(0.00
	Block 1	199,295	0.66199	0.3865			0.30133	117,106	\$250.00	9	144,106		0.0	0	0.00000	1.0	1,725	0.00444	1.0	71	0.00000	1.0	(677)	(0.00
	Block 2	214,880	0.62540	0.3865			0.26551	,	+	-	,		0.0	_	0.00000	1.0	-,	0.00391	1.0	· -	0.00016	1.0	()	(0.00
Interr Sales E	Block 1	0	0.67088	0.3865	9 (0.016)	79)	0.30108	0	\$250.00	0	0		0.0	0	0.00000	1.0	0	0.00436	1.0	0	0.00018	1.0	0	(0.0
	Block 2	0	0.63433	0.3865			0.26527						0.0		0.00000	1.0		0.00384	1.0		0.00016	1.0		(0.0
	Block 1	679,000	0.48281	0.3865			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)	(0.0)
	Block 2 Block 3	301,144 19,118	0.46934 0.44250	0.3865 0.3865			0.10611 0.08138						1.0 1.0		0.00863 0.00662	1.0 1.0		0.00249 0.00191	1.0 1.0		0.00010	1.0 1.0		(0.0
	Block 4	19,118	0.42485	0.3865			0.06510						1.0		0.00529	1.0		0.00191	1.0		0.00008	1.0		(0.0
	Block 5	0	0.40131	0.3865			0.04340						1.0		0.00323	1.0		0.00133	1.0		0.00004	1.0		(0.0
	Block 6	0	0.37188	0.3865			0.01627						1.0		0.00132	1.0		0.00038	1.0		0.00002	1.0		(0.0
	Block 1	1,079,174	0.47623	0.3865	9 (0.028)	87)	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)	(0.0
E	Block 2	786,160	0.46344	0.3865			0.10608						0.0		0.00000	1.0		0.00228	1.0		0.00009	1.0		(0.0
	Block 3	270,853	0.43798	0.3865			0.08135						0.0		0.00000	1.0		0.00175	1.0		0.00007	1.0		(0.0
	Block 4	21,904	0.42123	0.3865			0.06508						0.0		0.00000	1.0		0.00140	1.0		0.00006	1.0		(0.0)
	Block 5 Block 6	0	0.39891	0.3865 0.3865			0.04340 0.01626						0.0		0.00000	1.0		0.00093	1.0		0.00004	1.0		(0.0)
	Block 1	982,602	0.37097	0.0000			0.01626	403,988	\$1,550.00	9	571,388		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00001	1.0	(2,683)	(0.00
	Block 2	945,098	0.10579	0.0000			0.11010	103,300	\$1,550.00	,	371,300		0.0	· ·	0.00000	0.0		0.00000	0.0		0.00000	1.0	(2,003)	(0.0
	Block 3	720,000	0.08112	0.0000			0.08112						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 4	1,495,095	0.06490	0.0000			0.06490						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 5	749,810	0.04327	0.0000			0.04327						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 6	0	0.01622	0.0000			0.01622	210 270	41 200 00	-	240 570		0.0	10.262	0.00000	0.0	2.987	0.00000	0.0	123	0.00000	1.0	(1.173)	(0.0
	Block 1 Block 2	504,693 958,087	0.48791 0.47485	0.3865 0.3865			0.11842 0.10599	218,378	\$1,300.00	2	249,578		1.0 1.0	10,363	0.00562 0.00503	1.0 1.0	2,987	0.00162 0.00145	1.0 1.0	123	0.00007	1.0 1.0	(1,172)	(0.0)
	Block 3	494,816	0.44889	0.3865			0.10399						1.0		0.00303	1.0		0.00143	1.0		0.00005	1.0		(0.0
	Block 4	259,089	0.43181	0.3865			0.06502						1.0		0.00309	1.0		0.00089	1.0		0.00004	1.0		(0.0
	Block 5	0	0.40904	0.3865	9 (0.0209	90)	0.04335						1.0		0.00206	1.0		0.00059	1.0		0.00002	1.0		(0.0
	Block 6	0	0.38058	0.3865			0.01626						1.0		0.00077	1.0		0.00022	1.0		0.00001	1.0		(0.0
	Block 1	720,387	0.48480	0.3865			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)	(0.0)
	Block 2 Block 3	478,052 36,334	0.47207 0.44676	0.3865 0.3865			0.10600 0.08129						0.0		0.00000	1.0 1.0		0.00184 0.00141	1.0 1.0		0.00008	1.0		(0.0
	Block 4	30,334	0.43012	0.3865			0.06503						0.0		0.00000	1.0		0.00141	1.0		0.00005	1.0		(0.0
	Block 5	0	0.40791	0.3865			0.04335						0.0		0.00000	1.0		0.00075	1.0		0.00003	1.0		(0.0
	Block 6	ō	0.38016	0.3865			0.01626						0.0		0.00000	1.0		0.00028	1.0		0.00001	1.0		(0.0
Inter Trans E	Block 1	846,474	0.11818	0.0000	0.0000	00	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)	(0.0
	Block 2	1,573,592	0.10579	0.0000			0.10579						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 3	1,144,957	0.08112	0.0000			0.08112						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 4	3,778,518 2,303,680	0.06490 0.04327	0.0000			0.06490 0.04327						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0
	Block 5 Block 6	2,3U3,00U n	0.04327	0.0000		00	0.04327						0.0		0.00000	0.0		0.00000	0.0		0.00000	1.0		(0.0)
Firm Trans	DIOLK U	0	0.01022	0.0000			0.01022	0	\$38,000,00	0	0		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	1.0	0	(0.
Interr Trans		0	0.00499	0.0000			0.00499	0	\$38,000.00	0	0		0.0	0	0.00000	0.0	0	0.00000	0.0	ő	0.00000	1.0	Ö	(0.
entionally blank																								
		00 100 055						20 020 270			26 622 562					25 400 070 0	420.052		25 400 070 0	47.055		20.000.000	(474 076)	
ls		88,123,855						29,030,370			36,630,567		34,124,914.0	1,416,969		35,100,078.0	420,053		35,100,078.0	17,255		36,630,567.0	(171,976)	
rces for line 2 a	above:									Calman			U 27			U 43			11 20			Una AF		
uts page iff Schedules:										Column G			Line 37			Line 43			Line 39			Line 45		

<sup>68</sup> Note: Allocation to rate schedules or blocks with zero volumes is calculated on an overall margin percentage change basis.

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

1 Wash	hington		W	ACOG Deferr	al	Dema	and Deferral -	FIRM	Demand De	ferral - INTE	RRUPTIBLE
	PGA	Proposed Amount:		Temporary Inc			Temporary Inci		(32,722)	Temporary Inc	rement
3 Volum	nes page,	Revenue Sensitive Multiplier:	4.372%	add revenue se	ensitive factor	4.372%	add revenue se	nsitive factor	4.372%	add revenue se	nsitive factor
4 Colu	umn F	Amount to Amortize:	(751,192)	to all sales sch	edules	(1,986,999)	to all firm sales		(34,218)	to all Interrupti	ble sales
5			Multiplier	Volumes	Increment	Multiplier	Volumes	Increment	Multiplier	Volumes	Increment
	Α		В	C	D	E	F	G	Н	<u> I</u>	J
	150,638		1.0	150,638	(0.01023)	1.0	150,638	(0.02839)	0.0	0	0.00000
8 1C 9 2R 43,	64,959		1.0	64,959	(0.01023)	1.0	64,959	(0.02839)	0.0	0	0.00000
	,453,885		1.0	43,453,885 17,889,381	(0.01023) (0.01023)	1.0	43,453,885 17,889,381	(0.02839)	0.0	0	0.00000
	490,108		1.0	490,108	(0.01023)	1.0	490,108	(0.02839)	0.0	0	0.00000
	161,364		1.0	161,364	(0.01023)	1.0	161,364	(0.02839)	0.0	0	0.00000
	,139,658		1.0	2,139,658	(0.01023)	1.0	2,139,658	(0.02839)	0.0	0	0.00000
	,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
	199,295		1.0 1.0	199,295	(0.01023) (0.01023)	1.0 1.0	199,295	(0.02839) (0.02839)	0.0 0.0	0	0.00000
	214,880		1.0	214,880	(0.01023)	0.0	214,880 0	0.00000	1.0	0	0.00000 (0.00991)
21 41I Interr Sales Block 1 22 Block 2	0		1.0	0	(0.01023)	0.0	0	0.00000	1.0	0	(0.00991)
	679,000		1.0	679,000	(0.01023)	1.0	679,000	(0.02839)	0.0	0	0.00000
	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
	,079,174		1.0	1,079,174	(0.01023)	1.0	1,079,174	(0.02839)	0.0	0	0.00000
	786,160 270,853		1.0 1.0	786,160 270,853	(0.01023) (0.01023)	1.0 1.0	786,160 270,853	(0.02839) (0.02839)	0.0 0.0	0	0.00000
31 Block 3 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	21,304		1.0	21,904	(0.01023)	1.0	21,304	(0.02839)	0.0	0	0.00000
34 Block 6	0		1.0	0	(0.01023)	1.0	0	(0.02839)	0.0	Ö	0.00000
	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
	720,000		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
	,495,095		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
	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	504.603	0.00000
	504,693 958,087		1.0 1.0	504,693 958,087	(0.01023)	0.0 0.0	0	0.00000 0.00000	1.0 1.0	504,693 958,087	(0.00991)
	494,816		1.0	494,816	(0.01023) (0.01023)	0.0	0	0.00000	1.0	494,816	(0.00991) (0.00991)
	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	233,003	(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)
	720,387		1.0	720,387	(0.01023)	0.0	0	0.00000	1.0	720,387	(0.00991)
	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 53 42 Inter Trans Block 1	846,474		0.0	0	(0.01023) 0.00000	0.0	0	0.00000	1.0 0.0	0	(0.00991) 0.00000
	,573,592		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
	,144,957		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
	,778,518		0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000
	,303,680		0.0	0	0.00000	0.0	Ö	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
Intentionally blank											
52 53 T-1-1-	122.055			72 446 207	(0.01033)		60 004 030	(0.02020)		2.451.450	(0.00001)
53 Totals 88, 64	,123,855			73,446,297	(0.01023)		69,994,839	(0.02839)		3,451,458	(0.00991)
Sources for line 2 above:	3										
Inputs page			Line 31			Line 33			Line 35		
7 Tariff Schedules:			Cohod 201			Cahad 201			Cohod 201		
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		•	Revenue Sensitive	Revenue Sensitive
3	(a)	(b)	(c)	(d)
4	System Demand	- 4/	\$96,608,798	
5	Washington Allocation Factor	or 1/	9.84%	
6	Washington Demand		\$9,506,306	
7				
8	Washington Firm Sales Nor		69,994,838	
9	Washington Interruptible Sa	ales Normal Volumes	3,451,457	
10				
11				
12	Proposed Firm Demand Per	•	\$0.13351	\$0.13961
13	Proposed Interruptible Dem	•	\$0.04663	\$0.04876
14	Proposed MDDV Demand C	harge	\$1.99	\$2.08
15				
16	Current Firm Demand Per T	herm	\$0.13425	\$0.14039
17	Current Interruptible Dema	nd	\$0.04689	\$0.04903
18	Current MDDV Demand Cha	nrge	\$2.00	\$2.09
19				
20	Percent Change in Firm Der	mand	-0.55%	
21				
22				
23	1/Allocation Factor: 2013-14 F	GA forecast firm sales	volumes:	
24		<u>Washington</u>	<u>Oregon</u>	<u>System</u>
25	Firm Sales	69,994,838	610,826,251	680,821,089
26	Interruptible Sales	3,451,457	62,038,654	65,490,111
27	Total	73,446,295	672,864,905	746,311,200
28		9.84%	90.16%	100.00%
29				
30	2/Calculation of Proposed D	emand Rates:		
31	_,,			
32	Demand change factor		0.995	
33	Demana enange races		0.555	
34	Firm Demand (line 8 * line 34	)	\$0.13351	\$9,345,353
35	Interruptible Demand (line 9 *		\$0.04663	\$160,953
36		,	7	\$9,506,306
37				72,222,000
-				

#### NW Natural 2013-2014 PGA - SYSTEM: August Filing Summary of Total Demand Charges

#### SYSTEM COSTS

1 2	(a)	(b)	(c) November	(d) December	(e) January	(f) February	(g) March	(h) April	(i) May	(j) June	(k) July	(I) August	(m) September	(n) October	(o) TOTAL
3 4 5	Transport charges by transp	orter:	30	31	31	28	31	30	31	30	31	31	30	31	365
6	Northwest Pipeline		\$4,285,960	\$4,450,900	\$4,450,900	\$4,163,744	\$4,450,900	\$4,307,323	\$4,450,900	\$4,307,323	\$4,450,900	\$4,450,900	\$4,307,323	\$4,450,900	\$52,527,973
8	Alberta: Transcanada		42,105	38,952	38,952	38,952	38,952	38,952	38,952	38,952	38,952	38,952	38,952	38,952	470,579
10	Alberta: AECO Storage		0	81,150	81,150	81,150	81,150	81,150	81,150	81,150	81,150	81,150	81,150	81,150	892,651
11	Alberta: NOVA		875,419	844,151	844,151	844,151	844,151	844,151	844,151	844,151	844,151	844,151	844,151	844,151	10,161,084
13 14	Alberta: Foothills		500,472	373,671	373,671	373,671	373,671	333,532	333,532	333,532	333,532	333,532	333,532	373,671	4,370,019
15 16	Alberta: GTN		555,703	574,228	574,228	537,180	574,228	467,656	483,246	467,656	483,246	483,246	467,656	574,228	6,242,501
17 18 19	BC: Southern Crossing		801,059	812,863	812,863	764,872	812,863	788,868	812,863	788,868	812,863	812,863	788,868	812,863	9,622,576
20 21	BC: Spectra (Westcoast)		865,785	1,021,852	1,021,852	1,018,252	1,021,852	1,020,052	1,021,852	1,020,052	1,021,852	1,021,852	1,020,052	1,021,852	12,097,157
22	KB Pipeline	-	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$18,688	\$224,258

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

ALL VOLUMES IN THERMS														
SYSTEM	(a) (b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	<b>(</b> j)	(k)	(1)	(m)	(n)	(0)
2	(a) (b)	November	December	January	February	March	April	May	June	July	August	September	October	TOTAL
3 4 5 6	COSTS Commodity Cost from Supply tab commodity cost from supply, column bo, lines 93-105 plus	\$26,730,279	\$27,985,770	<sup>3</sup> \$25,591,832	\$18,633,068	\$16,919,506	<sup>6</sup> \$19,182,225	<sup>7</sup> \$10,674,505	\$8,079,234	<sup>9</sup> \$7,973,843	<sup>10</sup> \$7,786,098	\$7,676,579	\$14,683,886	\$191,916,826
7	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
9 10	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
11 12 13	tab Commodity Cost from Storage, column i, line 61-73													
12 13	Commodity Cost from Gas Reserves tab Commodity Cost from Gas Reserve, column M, line 59-70	\$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
14 15	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
16 17	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
18 19 20	Pipeline Fuel Use Gas Arriving at City Gate	2,228,889 78,426,674	2,219,770 80,131,408	1,989,847 73,322,499	1,402,952 53,974,910	1,318,064 50,287,604	1,685,424 58,952,049	858,827 35,410,148	677,780 28,473,297	704,788 29,018,685	697,408 29,174,399	684,867 28,577,629	1,249,897 47,875,849	15,718,513 593,625,151
20 21 22	Storage Gas Withdrawals Pipeline Fuel Use for Alberta-sourced Storage	5,680,076 195,796	37,238,081 286,185	41,277,701 322,307	38,942,118 141,495	31,730,575 131,998	240,000 0	248,000 0	240,000 0	248,000 0	248,000 0	240,000 0	248,000 0	156,580,550 1,077,781
23 24	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
25 26	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
27 28 29	Unaccounted for Gas  Load Served	372,131 83,538,823	380,220 116,703,084	347,912 113,929,981	256,108 92,519,425	238,612 81,647,568	279,724 58.912.325	168,019 35,490,129	135,104 28,578,193	137,692 29.128.993	138,431 29,283,968	135,599 28.682.030	227,168 47.896.681	2,816,720 746,311,200
29	Load Served	63,336,623	110,703,004	113,929,901	32,313,723	01,047,300	30,312,323	33,430,123	20,370,193	23,120,333	25,203,500	20,002,030	47,050,001	740,311,200
WACOG	Calculations													
30 31	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
31 32 33	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
34 35	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
36 37	Washingon Total (same as line 29 +/- rounding)	8,232,385 83,538,826	11,734,070 116,703,085	11,416,999 113,929,979	9,239,180 92,519,426	7,999,615 81,647,570	5,561,204 58,912,328	3,341,243 35,490,129	2,839,017 28,578,190	2,891,821 29,128,990	2,889,861 29,283,969	2,805,854 28,682,028	4,495,046 47,896,680	73,446,295 746,311,200
38 39	Washington WACOG Calculation													0
40 41 42	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
43 44	Hedged Rockies supply cost Hedged Rockies supply price per therm	\$5,874,938 \$0.39807	\$6,109,829 \$0.40063	\$5,478,591 \$0.39916	\$3,249,180 \$0.40273	\$2,228,225 \$0.40642	\$2,640,000 \$0.39751	\$2,693,125 \$0.39243	\$1,426,500 \$0.38662	\$905,200 \$0.39570	\$905,200 \$0.39570	\$876,000 \$0.39570	\$2,757,450 \$0.40180	\$35,144,237 \$0.39878
45 46	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
47 48	Gas Reserves cost Gas Reserves price per therm	\$2,687,293 \$0.57885	\$2,982,755 \$0.61287	\$2,732,929 \$0.56261	\$2,679,036 \$0.60135	\$2,836,568 \$0.57129	\$3,020,935 \$0.55869	\$3,291,580 \$0.54109	\$3,429,681 \$0.53897	\$3,673,273 \$0.52857	\$4,065,061 \$0.52260	\$3,974,269 \$0.52439	\$4,302,099 \$0.51077	\$39,675,478 \$0.54823
49 50 51	Washington percentage of total load (line 36 $\div$ 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%
52 53	Total System Commodity Cost (line 14 above) Less: Commodity Cost of Rockies Hedged Supplies (from line 43)	\$31,693,614 \$5,874,938	\$46,376,579 \$6,109,829	\$45,139,887 \$5,478,591	\$37,446,210 \$3,249,180	\$32,589,467 \$2,228,225	\$22,519,581 \$2,640,000	\$14,218,573 \$2,693,125	\$11,734,831 \$1,426,500	\$11,879,279 \$905,200	\$12,083,817 \$905,200	\$11,877,095 \$876,000	\$19,284,744 \$2,757,450	\$296,843,676 \$35,144,237
54 55	Less: Commodity Cost of Gas Reserves (from line 12) Total System Commodity Cost excluding Rockies hedged & Gas Reserves	\$2,687,293 \$23,131,384	\$2,982,755 \$37,283,996	\$2,732,929 \$36,928,367	\$2,679,036 \$31,517,993	\$2,836,568 \$27,524,675	\$3,020,935 \$16,858,646	\$3,291,580 \$8,233,868	\$3,429,681 \$6,878,649	\$3,673,273 \$7,300,806	\$4,065,061 \$7,113,556	\$3,974,269 \$7,026,826	\$4,302,099 \$12,225,195	\$39,675,478 \$222,023,962
56 57 58	Total System Load Served (from line 29) Less: load from Rockies hedged supplies (from line 32)	83,538,823 14,758,500	116,703,084 15,250,450	113,929,981 13,725,405	92,519,425 8,067,980	81,647,568 5,482,570	58,912,325 6,641,325	35,490,129 6,862,703	28,578,193 3,689,625	29,128,993 2,287,568	29,283,968 2,287,568	28,682,030 2,213,775	47,896,681 6,862,703	746,311,200 88,130,170
59 60	Less: load served by gas reserves (from line 32)	4,642,472	4,866,886	4,857,608	4,455,023 79,996,422	4,965,217 71,199,781	5,407,127	6,083,221	6,363,430	6,949,454	7,778,473	7,578,804 18,889,451	8,422,715	72,370,431 585,810,599
60 61 62	Total System load excluding Rockies hedged & Gas Reserves  System price excluding Rockies hedged & Gas Reserves (line 75 ÷ line 72)	64,137,851 \$0.36065	96,585,748 \$0.38602	95,346,968 \$0.38731	\$0.39399	\$0.38658	46,863,873 \$0.35974	22,544,205 \$0.36523	18,525,138 \$0.37131	19,891,972 \$0.36702	19,217,927 \$0.37015	\$0.37200	32,611,263 \$0.37488	\$0.37900
63 64	Washington allocation of Rockies hedged supply	40.30003	Ç0.3000Z	40.30731	ψ0.33333	ψ0.30030	ψ0.3337 T	40.30323	40.37131		ψ0.5/013	ψ0.37£00	40.57 100	Ģ0.57500
65 66	Rockies hedged supply needed for Washington (line 50 * (line 42 + line 46)) Cost of Rockies hedged supply allocated to Washington (line 65 * line 44)	1,920,696 \$764,571	2,031,851 \$814,020	1,858,301 \$741,759	1,252,300 \$504,339	1,023,883 \$416,127	1,132,554 \$450,202	1,216,917 \$477,555	995,252 \$384,784	914,465 \$361,854	996,538 \$394,330	959,673 \$379,743	1,436,829 \$577,318	15,739,259 \$6,266,602
67 68	Washington portfolio Volumes													
70 71	volunies  Total Washington load  Washington load met by Rockies hedged supply	8,232,385 1,920,696	11,734,070 2,031,851	11,416,999 1,858,301	9,239,180 1,252,300	7,999,615 1,023,883	5,561,204 1,132,554	3,341,243 1,216,917	2,839,017 995,252	2,891,821 914,465	2,889,861 996,538	2,805,854 959,673	4,495,046 1,436,829	73,446,295 15,739,259
72 73	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
74 75	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
76 77	Cost of remaining Washington load (line 72 * line 62) Total cost of Washington portfolio	\$2,276,311 \$3,040,882	\$3,745,251 \$4,559,271	\$3,702,179 \$4,443,939	\$3,146,751 \$3,651,090	\$2,696,678 \$3,112,805	\$1,593,163 \$2,043,364	\$775,868 \$1,253,422	\$684,608 \$1,069,393	\$725,729 \$1,087,583	\$700,814 \$1,095,144	\$686,779 \$1,066,522	\$1,146,464 \$1,723,782	\$21,880,595 \$28,147,196
78 79 80	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
81	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 ga	s:				
2						
3		AECO/NIT	_			
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, Nove	ember-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 WACO	G	\$0.38324	\$0.40076		
WA	Washington Winter WACO	G	\$0.38271	\$0.40021		
			line 23 * \$0.38324			