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September 11, 2015

NWN Advice No. WUTC 15-8 / 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 and Deferred Gas Cost Amortization Adjustments

Northwest Natural Gas Company, dba NW Natural (NWN or the "Company") files herewith the following revisions to its Tariff WN U-6, stated to become effective with service on and after November 1, 2015.

Twenty-First Revision of Sheet 201.1,
Schedule 201,
"Temporary (Technical) Adjustments to Rates;"

Twelfth Revision of Sheet 201.2,
Schedule 201,
"Temporary (Technical) Adjustments to Rates;" and

Twenty-Third Revision of Sheet 203.1,
Schedule 203,
"Purchased Gas Cost Adjustments to Rates."

I. Introduction and Summary

The purposes of this filing are to revise rates for: (1) the effects of changes in purchased gas costs, and (2) the effects of changes in deferred gas cost amortization adjustments. The Company revises rates for these purposes annually; the last such filing was effective on November 1, 2014.

II. Purchased Gas Cost Adjustment

This portion of the filing shows: (a) the cost of gas purchased by the Company from its natural gas suppliers, and the derivation of the Annual Weighted Average Cost of Gas (WACOG) (aka commodity rate) and the Winter Weighted Average Cost of Gas proposed to be applied to rates effective November 1, 2015; and (b) the cost of pipeline and storage capacity under contract with the Company's pipeline transporters, and the derivation of the firm and interruptible demand charges (aka pipeline capacity charge) proposed to be applied to rates effective November 1, 2015.

Including revenue sensitive effects, the proposed Annual WACOG is \$0.32160 per therm; the proposed Winter WACOG is \$0.33253; the proposed firm service pipeline capacity cost is \$0.12112 per therm, and the proposed interruptible service pipeline capacity cost is \$0.04231.

The net effect of the combined purchased gas adjustments in this filing is a decrease of \$0.11118 per therm for firm sales rate schedules and a decrease of \$0.10854 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 shows the account balances in deferred gas cost accounts (Account 191) and calculates the associated adjustments to rates for the amortization of such credit or debit balances.

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 collection balances in accounts 191420 and 191421. The balance in 191420 relates to commodity gas costs incurred above amounts collected in rates during the current PGA period that began on November 1, 2014. The balance in account 191421 is the forecasted residual balance related to deferrals from the previous PGA year that is included in current rates.

2. A 12-month amortization of balances in accounts 191430, 191431 and 254302. The balance in 191430 represents the amount the Company under collected from its Washington customers during the past year for demand charges. Account 191431 is the remaining unamortized amount from a consolidation of demand-related deferred accounts. Account 254302 relates to the deferral of storage-related off system sales.

It should be noted that the adjustments to rates proposed in this filing represent only part of the changes in customer rates proposed to be effective November 1, 2015 (see also NWN WUTC Advice Nos. 15-6 and 15-7). As such, the bill effects stated herein are provided for illustrative purposes only, and reflect the effect of removing the current Schedule 201 and Schedule 203 changes and applying the proposed Schedule 201 and Schedule 203 changes to current billing. NW Natural provides updated tariff sheets reflecting the combined effects of this filing and NWN WUTC Advice No. 15-6 and 16-7 separately in NWN WUTC Advice 15-9.

If there were no other adjustments to rates effective November 1, 2015, the effect of the rate changes proposed in this filing is a decrease to the average monthly bills in the primary rate schedules as follows: Schedule 2 Residential bills will decrease by 9.9% and Schedule 3 commercial bills will decrease 10.4%. If the effects of the temporary rate adjustments were permanent, the combined result of the rate changes would be a decrease in the Company's revenues from its Washington operations of \$3,884,887.

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 69,413 residential customers and 6,279 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, 2015.

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:

eFiling
Rates & Regulatory Affairs
NW Natural
220 NW Second Avenue
Portland, Oregon 97209
Telecopier: (503) 721-2516
Telephone: (503) 226-4211, ext. 3589
eFiling@nwnatural.com

Sincerely,

NW NATURAL

/s/ Onita R. King

Onita R. King
Rates & Regulatory Affairs

Attachments: Supporting Materials

NORTHWEST NATURAL GAS COMPANY

WN U-6

Twenty-First Revision of Sheet 201.1

Cancels Twentieth Revision of Sheet 201.1

SCHEDULE 201 TEMPORARY (TECHNICAL) ADJUSTMENTS TO RATES

PURPOSE: To identify adjustments to rates in the Rate Schedules listed below that relate to the amortization of balances in all of the Company's conventional deferred revenue and gas cost accounts, Accounts 186 and 191 respectively. Account 186 Adjustments reflect the net effect of adjustments related to Schedules 210, 215, and 230 of this Tariff.

APPLICABLE: To the following Rate Schedules of this Tariff:

Schedule 1	Schedule 27	Schedule 43 (all)
Schedule 2	Schedule 41 (all)	
Schedule 3	Schedule 42 (all)	

APPLICATION TO RATE SCHEDULES: Effective: November 1, 2015
The Total Temporary Adjustment amount shown below is included in the Temporary Adjustments reflected in the listed Rate Schedules. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

(T)

Schedule	Block	Account 191 Commodity Adjustment	Account 191 Pipeline Capacity Adjustment	Total Temporary Adjustment
1R		(\$0.03818)	(\$0.00042)	(\$0.03860)
1C		(\$0.03818)	(\$0.00042)	(\$0.03860)
2		(\$0.03818)	(\$0.00042)	(\$0.03860)
03 CSF		(\$0.03818)	(\$0.00042)	(\$0.03860)
03 ISF		(\$0.03818)	(\$0.00042)	(\$0.03860)
27		(\$0.03818)	(\$0.00042)	(\$0.03860)
41 CSF	Block 1	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 2	(\$0.03818)	(\$0.00042)	(\$0.03860)
41 CSI	Block 1	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 2	(\$0.03818)	(\$0.00016)	(\$0.03834)
41 TF	Block 1	N/A	N/A	\$0.00000
	Block 2	N/A	N/A	\$0.00000
41 ISF	Block 1	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 2	(\$0.03818)	(\$0.00042)	(\$0.03860)
41 ISI	Block 1	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 2	(\$0.03818)	(\$0.00016)	(\$0.03834)
42 CSF	Block 1	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 2	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 3	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 4	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 5	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 6	(\$0.03818)	(\$0.00042)	(\$0.03860)

(C)

(C)

(continue to Sheet 201.2)

Issued September 11, 2015
NWN WUTC Advice No. 15-08

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

WN U-6

Twelfth Revision of Sheet 201.2

Cancels Eleventh Revision of Sheet 201.2

**SCHEDULE 201
TEMPORARY (TECHNICAL) ADJUSTMENTS TO RATES
(continued)**

APPLICATION TO RATE SCHEDULES (continued):

Effective: November 1, 2015

(T)

Schedule	Block	Account 191 Commodity Adjustment	Account 191 Pipeline Capacity Adjustment	Total Temporary Adjustment
42 ISF	Block 1	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 2	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 3	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 4	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 5	(\$0.03818)	(\$0.00042)	(\$0.03860)
	Block 6	(\$0.03818)	(\$0.00042)	(\$0.03860)
42 TF	Block 1	N/A	N/A	\$0.00000
	Block 2	N/A	N/A	\$0.00000
	Block 3	N/A	N/A	\$0.00000
	Block 4	N/A	N/A	\$0.00000
	Block 5	N/A	N/A	\$0.00000
	Block 6	N/A	N/A	\$0.00000
42 CSI	Block 1	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 2	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 3	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 4	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 5	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 6	(\$0.03818)	(\$0.00016)	(\$0.03834)
42 ISI	Block 1	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 2	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 3	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 4	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 5	(\$0.03818)	(\$0.00016)	(\$0.03834)
	Block 6	(\$0.03818)	(\$0.00016)	(\$0.03834)
42 TI	Block 1	N/A	N/A	\$0.00000
	Block 2	N/A	N/A	\$0.00000
	Block 3	N/A	N/A	\$0.00000
	Block 4	N/A	N/A	\$0.00000
	Block 5	N/A	N/A	\$0.00000
	Block 6	N/A	N/A	\$0.00000
43 TF/TI		N/A	N/A	\$0.00000

(C)

(C)

GENERAL TERMS:

This schedule is governed by the terms of this 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.

Issued September 11, 2015
NWN WUTC Advice No. 15-08

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

WN U-6

Twenty-Third Revision of Sheet 203.1

Cancels Twenty-Second Revision of Sheet 203.1

SCHEDULE 203

PURCHASED GAS COST ADJUSTMENTS TO RATES

PURPOSE:

To (a) identify the Commodity and Pipeline Capacity Components applicable to the Rate Schedules listed below; and (b) to identify any changes to such components due to changes in the cost of Pipeline capacity and the cost of gas purchased from the Company's suppliers that apply to the Rate Schedules listed below. **See SCHEDULE P.**

APPLICABLE:

Schedule 1	Schedule 27	Schedule 41SI
Schedule 2	Schedule 41SF	Schedule 42SI
Schedule 3	Schedule 42SF	

APPLICATION TO RATE SCHEDULES:

Effective: November 1, 2015

(T)

Annual Sales WACOG [1]	\$0.32160	(R)
Winter Sales WACOG [2]	\$0.33253	(R)
Firm Sales Service Pipeline Capacity Component [3]	\$0.12112	(R)
Firm Sales Service Pipeline Capacity Component [4]	\$1.81	(R)
Interruptible Sales Service Pipeline Capacity Component [5]	\$0.04231	(R)

- [1] Applies to all Sales Service Rate Schedules (per therm) except where Winter Sales WACOG or Monthly Incremental Cost of Gas applies.
- [2] Applies to Sales Customers that request Winter Sales WACOG at the September 15 Annual Service Election.
- [3] Applies to Rate Schedules 1, 2, 3, 27 and Schedule 41 and Schedule 42 Firm Sales Service Volumetric Pipeline Capacity option (per therm).
- [4] Applies to Schedules 41 and 42 Firm Sales Service Peak Demand Pipeline Capacity option (per therm of MDDV per month).
- [5] Applies to Schedule 41 and Schedule 42 Interruptible Sales Service (per therm).

The above listed components shall be further adjusted as follows:

Commodity Component	Firm Pipeline Capacity Component
\$0.00000	\$0.00000

GENERAL TERMS:

This schedule is governed by the terms of this 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.

Issued September 11, 2015
NWN WUTC Advice No. 15-08

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

WN U-6

Eighth Revision of Sheet 220.1

Cancels Seventh Revision of Sheet 220.1

SCHEDULE 220 SPECIAL RATE ADJUSTMENT

PURPOSE:

The purpose of this schedule is to reflect the rate effects of the Company's recall of Mist storage capacity for use by the Company's core customers. (T)

APPLICABLE:

To Firm and Interruptible Sales service provided under the following Rate Schedules of this Tariff: (C)

Schedule 1 Schedule 2 Schedule 3 Schedule 27 Schedule 41 Schedule 42

APPLICATION TO RATE SCHEDULES: Effective: November 1, 2015 (T)

The Total Adjustment amounts shown below are included in the Base Adjustments reflected in the above-listed Rate Schedules. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

Schedule	Block	Mist Recall Base Rate Adjustment
1R		\$0.00078
1C		\$0.00066
2		\$0.00049
3C		\$0.00044
3I		\$0.00039
27		\$0.00034
41CSF	Block 1	\$0.00034
	Block 2	\$0.00030
41CSI	Block 1	\$0.00033
	Block 2	\$0.00029
41ISF	Block 1	\$0.00035
	Block 2	\$0.00031
41ISI	Block 1	\$0.00033
	Block 2	\$0.00029
42CSF	Block 1	\$0.00023
	Block 2	\$0.00021
	Block 3	\$0.00016
	Block 4	\$0.00013
	Block 5	\$0.00008
	Block 6	\$0.00003
42ISF	Block 1	\$0.00020
	Block 2	\$0.00018
	Block 3	\$0.00014
	Block 4	\$0.00011
	Block 5	\$0.00007
	Block 6	\$0.00003

(D)
(C)

(C)

(D)

(continue to Sheet 220.2)

Issued September 11, 2015
NWN WUTC Advice No. 15-08

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

WN U-6

Second Revision of Sheet 220.2

Cancels First Sheet 220.2

SCHEDULE 220 SPECIAL RATE ADJUSTMENT (continued)

Schedule	Block	Mist Recall Base Rate Adjustment
42CSI	Block 1	\$0.00014
	Block 2	\$0.00013
	Block 3	\$0.00010
	Block 4	\$0.00008
	Block 5	\$0.00005
	Block 6	\$0.00002
42ISI	Block 1	\$0.00028
	Block 2	\$0.00025
	Block 3	\$0.00019
	Block 4	\$0.00015
	Block 5	\$0.00010
	Block 6	\$0.00004

(T)

(C)

(C)

GENERAL TERMS:

This Schedule is governed by the terms of this 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.

Issued September 11, 2015
NWN WUTC Advice No. 15-08

Effective with service on
and after November 1, 2015

Issued by: **NORTHWEST NATURAL GAS COMPANY**
d.b.a. NW Natural
220 N.W. Second Avenue
Portland, Oregon 97209-3991

BEFORE THE
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

NW NATURAL
SUPPORTING MATERIALS

Annual Purchased Gas Cost and
Deferred Gas Cost Amortization Adjustments

NWN WUTC Advice No. 15-08 / UG-_____

September 11, 2015

NW NATURAL

EXHIBIT A

Supporting Material

Annual Purchased Gas Cost and Deferred Gas Cost Amortization Adjustments

NWN WUTC ADVICE NO. 15-08 / UG-_____

Description	Page
Summary of Temporary Increments	1
Calculation of Increments – Equal Cent Per Therm	2
Effects of Average Bill by Rate Schedule	3
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NW Natural
Rates & Regulatory Affairs
2015-2016 PGA Filing - Washington: September Filing
Summary of TEMPORARY Increments

		REMOVE	ADD	ADD	ADD		
		PGA Current	WACOG	Demand	Demand	Total	Net Effect of
		Temporaries	Deferral	Deferral	Deferral	Proposed PGA	PGA Temps
				FIRM	INTERR	E=B+C+D	F=E-A
Schedule	Block	B	C	D	E	F	
1R		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
1C		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
2R		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
3 CFS		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
3 IFS		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
27		0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
41C Firm Sales	Block 1	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 2	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
41C Interr Sales	Block 1	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 2	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
41 Firm Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
41I Firm Sales	Block 1	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 2	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
41I Interr Sales	Block 1	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 2	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
42C Firm Sales	Block 1	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 2	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 3	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 4	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 5	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 6	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
42I Firm Sales	Block 1	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 2	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 3	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 4	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 5	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
	Block 6	0.01472	(0.03818)	(0.00042)	0.00000	(0.03860)	(0.05332)
42 Firm Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
42C Interr Sales	Block 1	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 2	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 3	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 4	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 5	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 6	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
42I Interr Sales	Block 1	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 2	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 3	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 4	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 5	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
	Block 6	0.03328	(0.03818)	0.00000	(0.00016)	(0.03834)	(0.07162)
42 Inter Trans	Block 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 2	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 3	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 4	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Block 6	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
43 Firm Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
43 Interr Trans		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Intentionally blank							
Sources:							
Direct Inputs							
Equal ¢ per therm			Column D	Column G	Column J		
Equal % of margin							
Tariff Schedules:							
Schedule #			Sched 201	Sched 201	Sched 201		

NW Natural
 Rates & Regulatory Affairs
 2015-2016 PGA Filing - Washington: September Filing
 Calculation of Increments Allocated on the EQUAL CENT PER THERM BASIS

Line	Schedule	Block	A	WACOG Deferral			Demand Deferral - FIRM			Demand Deferral - INTERRUPTIBLE		
				Multiplier	Volumes	Increment	Multiplier	Volumes	Increment	Multiplier	Volumes	Increment
1	Washington											
2	PGA											
3	Proposed Amount:											
4	Revenue Sensitive Multiplier:											
5	Amount to Amortize:											
6	Column F											
7	1C	195,073	1.0	195,073	(0.03818)	1.0	195,073	(0.00042)	0.0	0	0.00000	0
8	1R	33,275	1.0	33,275	(0.03818)	1.0	33,275	(0.00042)	0.0	0	0.00000	0
9	2R	47,349,001	1.0	47,349,001	(0.03818)	1.0	47,349,001	(0.00042)	0.0	0	0.00000	0
10	3 CFS	16,528,921	1.0	16,528,921	(0.03818)	1.0	16,528,921	(0.00042)	0.0	0	0.00000	0
11	3 IFS	494,140	1.0	494,140	(0.03818)	1.0	494,140	(0.00042)	0.0	0	0.00000	0
12	27	292,826	1.0	292,826	(0.03818)	1.0	292,826	(0.00042)	0.0	0	0.00000	0
13	41C Firm Sales	2,304,186	1.0	2,304,186	(0.03818)	1.0	2,304,186	(0.00042)	0.0	0	0.00000	0
14	41C Interr Sales	1,829,429	1.0	1,829,429	(0.03818)	1.0	1,829,429	(0.00042)	0.0	0	0.00000	0
15	41C Interr Sales	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
16	Block 2	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
17	41 Firm Trans	146,151	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
18	Block 2	182,278	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
19	41I Firm Sales	197,178	1.0	197,178	(0.03818)	1.0	197,178	(0.00042)	0.0	0	0.00000	0
20	Block 2	176,667	1.0	176,667	(0.03818)	1.0	176,667	(0.00042)	0.0	0	0.00000	0
21	41I Interr Sales	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
22	Block 2	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
23	42C Firm Sales	527,889	1.0	527,889	(0.03818)	1.0	527,889	(0.00042)	0.0	0	0.00000	0
24	Block 2	193,130	1.0	193,130	(0.03818)	1.0	193,130	(0.00042)	0.0	0	0.00000	0
25	Block 3	1,433	1.0	1,433	(0.03818)	1.0	1,433	(0.00042)	0.0	0	0.00000	0
26	Block 4	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
27	Block 5	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
28	Block 6	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
29	42I Firm Sales	1,069,486	1.0	1,069,486	(0.03818)	1.0	1,069,486	(0.00042)	0.0	0	0.00000	0
30	Block 2	653,627	1.0	653,627	(0.03818)	1.0	653,627	(0.00042)	0.0	0	0.00000	0
31	Block 3	49,887	1.0	49,887	(0.03818)	1.0	49,887	(0.00042)	0.0	0	0.00000	0
32	Block 4	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
33	Block 5	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
34	Block 6	0	1.0	0	(0.03818)	1.0	0	(0.00042)	0.0	0	0.00000	0
35	42 Firm Trans	1,203,966	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
36	Block 2	1,247,863	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
37	Block 3	960,088	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
38	Block 4	1,401,040	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
39	Block 5	331,993	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
40	Block 6	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
41	42C Interr Sales	241,648	1.0	241,648	(0.03818)	0.0	0	0.00000	1.0	241,648	(0.00016)	0
42	Block 2	468,617	1.0	468,617	(0.03818)	0.0	0	0.00000	1.0	468,617	(0.00016)	0
43	Block 3	190,313	1.0	190,313	(0.03818)	0.0	0	0.00000	1.0	190,313	(0.00016)	0
44	Block 4	33,749	1.0	33,749	(0.03818)	0.0	0	0.00000	1.0	33,749	(0.00016)	0
45	Block 5	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
46	Block 6	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
47	42I Interr Sales	151,102	1.0	151,102	(0.03818)	0.0	0	0.00000	1.0	151,102	(0.00016)	0
48	Block 2	105,893	1.0	105,893	(0.03818)	0.0	0	0.00000	1.0	105,893	(0.00016)	0
49	Block 3	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
50	Block 4	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
51	Block 5	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
52	Block 6	0	1.0	0	(0.03818)	0.0	0	0.00000	1.0	0	(0.00016)	0
53	42 Inter Trans	947,868	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
54	Block 2	1,645,477	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
55	Block 3	1,229,017	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
56	Block 4	3,810,108	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
57	Block 5	2,410,781	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
58	Block 6	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
59	43 Firm Trans	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
60	43 Interr Trans	0	0.0	0	0.00000	0.0	0	0.00000	0.0	0	0.00000	0
61	Intentionally blank											
62												
63	Totals		88,604,100		73,087,470	(0.03818)	71,896,148	(0.00042)	1,191,322		(0.00016)	
64	Sources for line 2 above:		0									
65	Input page											
66	Tariff Schedules:											
67	Schedule #											
68												

NW Natural
Rates & Regulatory Affairs
2015-2016 PGA Filing - Washington: September Filing
PGA Effects on Average Bill by Rate Schedule

Calculation of Effect on Customer Average Bill by Rate Schedule [1]

		Washington PGA Normalized Volumes page, Column D	Therms in Block	Normal Therms Monthly Average use	Minimum Monthly Charge	Current 11/1/2014 Billing Rates	11/1/2014 Current Average Bill	Proposed 11/1/2015 PGA Effects Rates	Proposed 11/1/2015 PGA Effects Average Bill	Proposed 11/1/2015 PGA Effects % Bill Change
							F=D+(C * E)		O=D+(C*N)	
Schedule	Block	A	B	C	D	E	F	M	N	O
1R		195,073	N/A	20.0	3.47	1.29732	29.42	1.19	27.21	-7.6%
1C		33,275	N/A	75.0	3.47	1.28886	100.13	1.18	91.85	-8.4%
2R		47,349,001	N/A	58.0	7.00	1.01057	65.61	0.90	59.19	-9.9%
3 CFS		16,528,921	N/A	245.0	15.00	1.01161	262.84	0.90	235.71	-10.4%
3 IFS		494,140	N/A	2,167.0	15.00	0.99181	2,164.25	0.88	1,924.17	-11.2%
27		292,826	N/A	51.0	6.00	0.84196	48.94	0.73	43.29	-11.6%
41C Firm Sales	Block 1	2,304,186	2,000	3,785.0	250.00	0.76423		0.66		
	Block 2	1,829,429	all additional			0.72611		0.62		
	TOTAL						3,074.57		2,670.29	-13.2%
41C Interr Sales	Block 1	0	2,000	0.0	250.00	0.78165		0.67		
	Block 2	0	all additional			0.74363		0.64		
	TOTAL						250.00		250.00	0.0%
41 Firm Trans	Block 1	146,151	2,000	3,041.0	500.00	0.30077		0.30		
	Block 2	182,278	all additional			0.26500		0.27		
	TOTAL						1,377.41		1,377.41	0.0%
41I Firm Sales	Block 1	197,178	2,000	3,115.0	250.00	0.74924		0.64		
	Block 2	176,667	all additional			0.71289		0.61		
	TOTAL						2,543.35		2,210.69	-13.2%
41I Interr Sales	Block 1	0	2,000	0.0	250.00	0.76749		0.66		
	Block 2	0	all additional			0.73116		0.62		
	TOTAL						250.00		250.00	0.0%
42C Firm Sales	Block 1	527,889	10,000	10,034.0	1,300.00	0.57511		0.47		
	Block 2	193,130	20,000			0.56130		0.45		
	Block 3	1,433	20,000			0.53384		0.43		
	Block 4	0	100,000			0.51575		0.41		
	Block 5	0	600,000			0.49166		0.38461		
	Block 6	0	all additional			0.46152		0.35442		
	TOTAL						7,070.18		5,997.55	-15.2%
42I Firm Sales	Block 1	1,069,486	10,000	13,432.0	1,300.00	0.56438		0.46		
	Block 2	653,627	20,000			0.55170		0.44		
	Block 3	49,887	20,000			0.52646		0.42		
	Block 4	0	100,000			0.50986		0.40		
	Block 5	0	600,000			0.48774		0.38068		
	Block 6	0	all additional			0.46004		0.35294		
	TOTAL						8,837.23		7,400.88	-16.3%
42 Firm Trans	Block 1	1,203,966	10,000	38,977.0	1,550.00	0.11818		0.12		
	Block 2	1,247,863	20,000			0.10579		0.11		
	Block 3	960,088	20,000			0.08112		0.08		
	Block 4	1,401,040	100,000			0.06490		0.06		
	Block 5	331,993	600,000			0.04327		0.04327		
	Block 6	0	all additional			0.01622		0.01622		
	TOTAL						5,575.81		5,575.81	0.0%
42C Interr Sales	Block 1	241,648	10,000	38,930.0	1,300.00	0.58869		0.48		
	Block 2	468,617	20,000			0.57539		0.47		
	Block 3	190,313	20,000			0.54896		0.44		
	Block 4	33,749	100,000			0.53156		0.42		
	Block 5	0	600,000			0.50838		0.40130		
	Block 6	0	all additional			0.47941		0.37230		
	TOTAL						23,596.91		19,431.23	-17.7%
42I Interr Sales	Block 1	151,102	10,000	7,139.0	1,300.00	0.58345		0.48		
	Block 2	105,893	20,000			0.57071		0.46		
	Block 3	0	20,000			0.54537		0.44		
	Block 4	0	100,000			0.52870		0.42		
	Block 5	0	600,000			0.50646		0.39943		
	Block 6	0	all additional			0.47868		0.37159		
	TOTAL						5,465.25		4,702.45	-14.1%
42 Inter Trans	Block 1	947,868	10,000	76,085.0	1,550.00	0.11818		0.12		
	Block 2	1,645,477	20,000			0.10579		0.11		
	Block 3	1,229,017	20,000			0.08112		0.08		
	Block 4	3,810,108	100,000			0.06490		0.06		
	Block 5	2,410,781	600,000			0.04327		0.04327		
	Block 6	0	all additional			0.01622		0.01622		
	TOTAL						8,162.92		8,162.92	0.0%
43 Firm Trans		0	N/A	0.0	38,000.00	0.00499	38,000.00	0.00	38,000.00	0.0%
43 Interr Trans		0	N/A	0.0	38,000.00	0.00499	38,000.00	0.00	38,000.00	0.0%

Sources:

Direct Inputs per Tariff per Tariff

Rates in summary Column A

NW Natural
 Rates & Regulatory Affairs
 2015-2016 PGA Filing - Washington: September Filing
 Summary of Deferred Accounts

Account A	Balance 8/31/2015 B	Sep-Oct Estimated Activity C	Sep-Oct Interest D	Estimated Balance 10/31/2015 E	Estimated Interest During Amortization F	Total Estimated Amount for (Refund) or Collection G	Amounts Excluded from PGA Filing H	Amounts Included in PGA Filing I
16 Gas Cost Deferrals and Amortizations					3.25%			
17 191420 WACOG - ACCRUAL WA	(3,070,791)	0	(16,656)	(3,087,447)				
18 191421 AMORT OF WACOG - WA	760,313	(298,299)	3,469	465,483				
19 Subtotal	(2,310,478)	(298,299)	(13,187)	(2,621,964)	(46,386)	(2,668,350)		(2,668,350)
20								
21 191430 DEMAND ACCRUAL - WA	1,497,801	0	8,125	1,505,926				
22 191431 AMORT OF DEMAND WA	(945,446)	193,516	(4,704)	(756,634)				
23 254302 MARGIN SHARING - WA	(778,067)	0	0	(778,067)				
24 Subtotal	(225,713)	193,516	3,421	(28,776)	(509)	(29,285)		
25								
26								

(29,285) to FIRM
 to INTERRUPTIBLE
 (29,107)
 (178)
 (29,285)

Company: Northwest Natural Gas Company
 State: Washington
 Description: Washington WACOG Deferral
 Account Number: 191420
 Program under Schedule P
 Temp Increment under Schedule 203

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Debit	(Credit)	Month/Year	Note	Accumulation	Transfers	Interest Rate	Interest	Activity	Balance								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)										
Beginning Balance																	
105		Oct-14		(28,417.00)		3.25%	7,645.00	(20,772.00)	2,816,162.00								
106		Nov-14	1	98,527.00	(2,916,751.00)	3.25%	(139.00)	(2,818,363.00)	(2,201.00)								
107		Dec-14		(106,827.00)		3.25%	(151.00)	(106,978.00)	(109,179.00)								
108		Jan-15		(490,858.00)		3.25%	(960.00)	(491,818.00)	(600,997.00)								
109		Feb-15		(401,492.00)		3.25%	(2,171.00)	(403,663.00)	(1,004,660.00)								
110		Mar-15		(490,273.00)		3.25%	(3,385.00)	(493,658.00)	(1,498,318.00)								
111		Apr-15		(507,617.00)		3.25%	(4,745.00)	(512,362.00)	(2,010,680.00)								
112		May-15		(270,013.00)		3.25%	(5,811.00)	(275,824.00)	(2,286,504.00)								
113		Jun-15		(283,325.00)		3.25%	(6,576.00)	(289,901.00)	(2,576,405.00)								
114		Jul-15		(264,071.00)		3.25%	(7,335.00)	(271,406.00)	(2,847,811.00)								
115		Aug-15		(214,976.00)		3.25%	(8,004.00)	(222,980.00)	(3,070,791.00)								
116		Sep-15				3.25%	(8,317.00)	(8,317.00)	(3,079,108.00)								
117		Oct-15				3.25%	(8,339.00)	(8,339.00)	(3,087,447.00)								

History truncated for ease of viewing

Notes

1 - Transferred authorized balance to account 191421 for amortization.

Company: Northwest Natural Gas Company
 State: Washington
 Description: Washington Amortization of WACOG
 Account Number: 191421
 Program under Schedule P
 Temp Increment under Schedule 203

	1	2	3	4	5	6	7	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125
Debit (Credit)	Month/Year	Note	Amortization	Transfers	Interest Rate	Interest	Activity	Balance														
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)														
Beginning Balance																						
	Oct-14		26,894.12		3.25%	14.87	26,909.02	18,950.82														
	Nov-14	old rate	25,353.35		3.25%	86.00	25,439.38	44,390.20														
	Nov-14	new rate (1)	(108,913.00)	2,916,751.00	3.25%	7,752.05	2,815,590.08	2,859,980.29														
	Dec-14		(414,581.94)		3.25%	7,184.00	(407,397.91)	2,452,582.38														
	Jan-15		(452,896.97)		3.25%	6,029.00	(446,867.94)	2,005,714.44														
	Feb-15		(336,241.32)		3.25%	4,977.00	(331,264.28)	1,674,450.15														
	Mar-15		(268,160.43)		3.25%	4,172.00	(263,988.39)	1,410,461.76														
	Apr-15		(219,645.01)		3.25%	3,523.00	(216,121.98)	1,194,339.78														
	May-15		(164,676.91)		3.25%	3,012.00	(161,664.88)	1,032,674.90														
	Jun-15		(113,282.45)		3.25%	2,643.00	(110,639.42)	922,035.48														
	Jul-15		(85,339.09)		3.25%	2,382.00	(82,957.06)	839,078.43														
	Aug-15		(80,926.74)	(1.54)	3.25%	2,163.00	(78,765.25)	760,313.18														
	Sep-15	forecast	(92,759.04)		3.25%	1,934.00	(90,825.01)	669,488.17														
	Oct-15	forecast	(205,539.98)		3.25%	1,535.00	(204,004.95)	465,483.23														

History truncated for ease of viewing

Notes

1 - Transfer in amounts from account 191420 approved for amortization.

Company: Northwest Natural Gas Company
 State: Washington
 Description: Washington Demand Accrual
 Account Number: 191430
 Program under Schedule P
 Temp Increment under Schedule 203

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Debit	(Credit)	Month/Year	Note	Accumulation	Transfers	Interest Rate	Interest	Activity	Balance								
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)								
		Beginning Balance															
105		Oct-14		316,940.80		3.25%	(806.00)	316,134.80	(139,839.76)								
106		Nov-14	1	(278,465.85)	919,526.24	3.25%	1,735.00	642,795.39	502,955.63								
107		Dec-14		(425,694.98)		3.25%	786.00	(424,908.98)	78,046.65								
108		Jan-15		(446,439.00)		3.25%	(393.00)	(446,832.00)	(368,785.35)								
109		Feb-15		(86,937.00)		3.25%	(1,117.00)	(88,054.00)	(456,839.35)								
110		Mar-15		78,687.00		3.25%	(1,131.00)	77,556.00	(379,283.35)								
111		Apr-15		91,316.00		3.25%	(904.00)	90,412.00	(288,871.35)								
112		May-15		353,386.63		3.25%	(304.00)	353,082.63	64,211.28								
113		Jun-15		457,277.61		3.25%	793.00	458,070.61	522,281.89								
114		Jul-15		475,905.00		3.25%	2,059.00	477,964.00	1,000,245.89								
115		Aug-15		494,175.64	1.27	3.25%	3,378.00	497,554.91	1,497,800.80								
116		Sep-15				3.25%	4,057.00	4,057.00	1,501,857.80								
117		Oct-15				3.25%	4,068.00	4,068.00	1,505,925.80								

History truncated for ease of viewing

Notes

1 - Transferred authorized balance to account 191431 for amortization.

Company: Northwest Natural Gas Company
 State: Washington
 Description: Washington Amortization of Demand
 Account Number: 191431
 Program under Schedule P
 Temp Increment under Schedule 203

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
Debit	Credit	Month/Year	Note	Amortization	Transfers	Interest Rate	Interest	Activity	Balance																								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)																										
Beginning Balance																																	
Oct-14		42,013.47				3.25%	(799.18)	41,214.29	(274,875.13)																								
Nov-14	old	43,975.02				3.25%	(684.90)	43,290.12	(231,584.99)																								
Nov-14	new	69,576.30	(1)		(919,526.24)	3.25%	(2,396.17)	(852,346.11)	(1,083,931.10)																								
Dec-14		271,345.02				3.25%	(2,568.20)	268,776.82	(815,154.27)																								
Jan-15		296,523.03	2		(1,223,450.71)	3.25%	(5,119.68)	(932,047.36)	(1,747,201.63)																								
Feb-15		219,881.29				3.25%	(4,434.25)	215,447.04	(1,531,754.59)																								
Mar-15		174,927.66				3.25%	(3,911.62)	171,016.04	(1,360,738.55)																								
Apr-15		142,929.00				3.25%	(3,491.78)	139,437.22	(1,221,301.32)																								
May-15		106,927.32				3.25%	(3,162.89)	103,764.43	(1,117,536.89)																								
Jun-15		73,276.01				3.25%	(2,927.43)	70,348.58	(1,047,188.31)																								
Jul-15		55,029.96				3.25%	(2,761.62)	52,268.34	(994,919.97)																								
Aug-15		52,097.98			(0.06)	3.25%	(2,624.03)	49,473.89	(945,446.08)																								
Sep-15	forecast	59,802.97				3.25%	(2,479.60)	57,323.37	(888,122.71)																								
Oct-15	forecast	133,712.96				3.25%	(2,224.26)	131,488.70	(756,634.01)																								

History truncated for ease of viewing

Notes

- 1 - Transfer in amounts from account 191430 approved for amortization.
- 2 - Transfer in from account 186302 (storage and optimization revenue sharing).

Company: Northwest Natural Gas Company
 State: Washington
 Description: Washington Storage Sharing
 Account Number: 254302
 Temp Increment under Schedule 220

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Debit	(Credit)	Month/Year	Note	Accumulation	Transfers	Activity	Balance									
(a)	(b)	(c)	(d)	(e)	(f)											
Beginning Balance																
104		Oct-14		(108,666.14)		(108,666.14)	(1,016,096.05)									
105		Nov-14		(107,433.34)		(107,433.34)	(1,123,529.39)									
106		Dec-14		(99,921.32)		(99,921.32)	(1,223,450.71)									
107		Jan-15	1	(11,470.88)	1,223,450.71	1,211,979.83	(11,470.88)									
108		Feb-15		(48,599.01)		(48,599.01)	(60,069.89)									
109		Mar-15		(122,965.61)		(122,965.61)	(183,035.50)									
110		Apr-15		(96,042.06)		(96,042.06)	(279,077.56)									
111		May-15		(111,739.55)		(111,739.55)	(390,817.11)									
112		Jun-15		(119,912.74)		(119,912.74)	(510,729.85)									
113		Jul-15		(129,628.83)		(129,628.83)	(640,358.68)									
114		Aug-15		(137,708.62)		(137,708.62)	(778,067.30)									
115		Sep-15				0.00	(778,067.30)									
116		Oct-15				0.00	(778,067.30)									

History truncated for ease of viewing

Notes

1 - Transfer December balance to account 191431 for amortization.

NW Natural
 2015-2016 PGA - SYSTEM: August Filing
 Summary of Total Commodity Cost
 ALL VOLUMES IN THERMS

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	November	December	January	February	March	April	May	June	July	August	September	October	November	December	TOTAL
SYSTEM COSTS															
COSTS															
Commodity Cost from Supply	\$22,231,481	\$22,071,975	\$20,025,507	\$16,292,779	\$15,893,736	\$13,686,646	\$8,719,705	\$5,270,398	\$4,483,980	\$4,462,223	\$4,943,100	\$12,003,223	\$150,084,754		
tab commodity cost from supply, column c4, lines 93-105 plus															
tab commodity cost from gas reserve, column q, lines 59-70															
Volumetric Pipeline Chgs	\$281,822	\$307,742	\$283,753	\$229,083	\$210,049	\$193,859	\$130,323	\$83,613	\$72,581	\$71,704	\$77,079	\$163,166	\$2,104,774		
tab volumetric cost from vol pipe, column e, line 78-90															
Commodity Cost from Storage	\$1,706,960	\$16,506,928	\$16,564,544	\$14,144,715	\$9,507,010	\$467,215	\$110,343	\$106,784	\$110,343	\$110,343	\$106,784	\$110,343	\$59,552,312		
tab Commodity Cost from Storage, column k, line 61-73															
Commodity Cost from Gas Reserves	\$3,006,823	\$3,047,210	\$3,012,670	\$2,847,394	\$2,979,638	\$2,821,446	\$2,846,855	\$2,756,320	\$2,787,533	\$2,754,346	\$2,714,793	\$2,694,011	\$34,269,038		
tab Commodity Cost from Gas Reserve, column p, line 59-70															
Total Commodity Cost	\$27,227,086	\$41,933,855	\$39,886,475	\$33,513,971	\$28,590,432	\$17,169,166	\$11,807,226	\$8,217,116	\$7,454,437	\$7,398,616	\$7,841,755	\$14,970,743	\$246,010,878		
VOLUMES															
Commodity Volumes at Receipt Points	85,463,372	78,957,507	71,635,594	58,756,696	59,230,103	63,577,019	42,722,321	27,414,590	23,804,109	23,516,745	25,275,221	53,508,733	613,862,010		
Pipeline Fuel Use	2,171,541	1,881,748	1,681,713	1,368,720	1,424,769	1,727,448	1,103,163	675,095	573,995	566,144	616,648	1,429,887	15,220,870		
Gas Arriving at City Gate	83,291,831	77,075,759	69,953,881	57,387,976	57,805,334	61,849,571	41,619,158	26,739,495	23,230,114	22,950,601	24,658,573	52,078,846	598,641,139		
Storage Gas Withdrawals	3,954,946	45,574,296	45,940,093	39,987,556	25,487,896	1,194,429	248,000	240,000	248,000	248,000	240,000	248,000	163,611,216		
Pipeline Fuel Use for Alberta-sourced Storage	113,306	439,484	448,287	278,008	95,088	0	0	0	0	0	0	0	1,374,172		
Storage Gas Deliveries at City Gate	3,841,640	45,134,811	45,491,806	39,709,548	25,392,809	1,194,429	248,000	240,000	248,000	248,000	240,000	248,000	162,237,044		
Total Gas At City Gate (Storage and Commodity)	87,133,471	122,210,571	115,445,687	97,097,524	83,198,142	63,044,000	41,867,158	26,979,495	23,478,114	23,198,601	24,898,573	52,326,846	760,878,183		
Unaccounted for Gas	538,851	498,637	452,562	371,268	373,968	400,132	269,252	172,989	150,286	148,477	159,527	336,921	3,872,870		
Load Served	86,594,620	121,711,934	114,993,125	96,726,257	82,824,175	62,643,868	41,597,906	26,806,505	23,327,828	23,050,124	24,739,046	51,989,926	757,005,313		

WACOG Calculations

Table with 3 columns: Line number, Description, and Value. Includes sections for Gas Reserves Supply, Total Load Served, and Washington WACOG Calculation.

Washington WACOG Calculation

Hedged Rockies supply excluding Gas Reserves

Table with 3 columns: Line number, Description, and Value. Details the hedged Rockies supply excluding gas reserves.

Total System Commodity Cost (line 14 above)
Less: Commodity Cost of Rockies Hedged Supplies (from line 43)
Less: Commodity Cost of Gas Reserves (from line 12)
Less: Cost of Index Adder for Gas Reserves Allocated to Baseboard
Total System Commodity Cost excluding Rockies hedged & Gas Reserves

Total System Load Served (from line 29)
Less: load from Rockies hedged supplies (from line 32)
Less: load served by gas reserves (from line 32)
Total System load excluding Rockies hedged & Gas Reserves

System price excluding Rockies hedged & Gas Reserves (line 55 + line 72)

Washington allocation of Rockies hedged supply

Table with 3 columns: Line number, Description, and Value. Shows the Washington allocation of Rockies hedged supply.

Washington portfolio

Table with 3 columns: Line number, Description, and Value. Details the Washington portfolio.

Cost of Rockies hedged supply allocated to Washington (line 66)

Cost of remaining Washington load (line 72 * line 62)

Total cost of Washington portfolio

Washington Sales WACOG (line 77 + line 70)

WASHINGTON BILLING WACOG

Oregon WACOG Calculation

Table with 3 columns: Line number, Description, and Value. Details the Oregon WACOG calculation.

Oregon Sales WACOG (line 88 + line 35)

OREGON BILLING WACOG

Table with 3 columns: Line number, Description, and Value. Summary table for Oregon WACOG calculation.

NW Natural
 2015-2016 PGA - SYSTEM: August Filing
 Summary of Total Demand Charges

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		
	30	31	31	29	31	30	31	30	31	31	30	31	30	31	366
Transport charges by transporter:															
1															
2															
3															
4															
5															
6	\$4,252,026	\$4,393,760	\$4,393,760	\$4,110,290	\$4,393,760	\$4,152,211	\$4,290,618	\$4,152,211	\$4,290,618	\$4,290,618	\$4,152,211	\$4,290,618	\$4,152,211	\$4,290,618	\$51,162,700
7															
8	67,586	67,586	67,586	67,586	67,586	0	0	0	0	0	0	0	0	0	337,928
9															
10	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	658,173	7,898,079
11															
12	351,318	351,318	351,318	351,318	351,318	313,580	313,580	313,580	313,580	313,580	313,580	313,580	313,580	351,318	3,989,385
13															
14	540,136	558,141	501,145	468,813	501,145	408,140	421,745	408,140	421,745	421,745	408,140	421,745	408,140	501,145	5,560,180
15															
16	626,539	646,524	646,524	606,555	646,524	626,539	646,524	626,539	646,524	646,524	626,539	646,524	626,539	646,524	7,638,379
17															
18	369,000	381,300	381,300	356,700	381,300	369,000	381,300	369,000	381,300	381,300	369,000	381,300	369,000	381,300	4,501,800
19															
20	18,688	18,688	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
21															
22	\$6,883,465	\$7,075,489	\$7,018,494	\$6,638,123	\$7,018,494	\$6,546,331	\$6,730,628	\$6,546,331	\$6,730,628	\$6,730,628	\$6,546,331	\$6,847,766	\$6,546,331	\$6,847,766	\$81,312,709
23															
24															
25															

Detail in file "Capacity Contract Monthly Summary for Tracker 2015-16.xls"

NW Natural
 2015-2016 PGA - SYSTEM: August Filing
 Derivation of Washington per therm Non-Commodity Charges
 ALL VOLUMES IN THERMS

Washington Derivation of Demand Increments

		<u>Without</u> Revenue Sensitive	<u>WITH</u> Revenue Sensitive
	(a) (b)	(c)	(d)
1			
2			
3			
4	System Demand	\$81,312,709	
5	Washington Allocation Factor 1/	10.30%	
6	Washington Demand	\$8,375,209	
7			
8	Washington Firm Sales Normal Volumes	71,896,148	
9	Washington Interruptible Sales Normal Volumes	1,191,322	
10			
11			
12	Proposed Firm Demand Per Therm 2/	\$0.11582	\$0.12112
13	Proposed Interruptible Demand 2/	\$0.04046	\$0.04231
14	Proposed MDDV Demand Charge	\$1.73	\$1.81
15			
16	Current Firm Demand Per Therm	\$0.11970	\$0.12517
17	Current Interruptible Demand	\$0.04181	\$0.04372
18	Current MDDV Demand Charge	\$1.79	\$1.87
19			
20	Percent Change in Firm Demand	-3.24%	
21			
22			
23	1/Allocation Factor: 2013-14 PGA forecast firm sales volumes:		
24		<u>Washington</u>	<u>Oregon</u>
25	Firm Sales	71,896,148	625,943,383
26		10.30%	89.70%
27			<u>System</u>
28			697,839,531
29			100.00%
30	2/Calculation of Proposed Demand Rates:		
31			
32	Demand change factor	0.968	
33	Firm Demand (line 8 * line 34)	\$0.11582	\$8,327,014
34	Interruptible Demand (line 9 * line 35)	\$0.04045	\$48,195
35			<u>\$8,375,209</u>
			\$0

NW Natural
 2015-2016 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	\$0.23306	
6	December	\$0.23984	
7	January	\$0.24536	
8	February	\$0.24604	
9	March	\$0.24193	
10	April	\$0.22696	
11	May	\$0.22431	
12	June	\$0.22495	
13	July	\$0.22543	
14	August	\$0.22783	
15	September	\$0.22845	
16	October	\$0.23567	
17			
18			
19	Average price, November-March	\$0.24125	average lines 5-9
20			
21	Annual average price, November-October	\$0.23332	average lines 5-16
22			
23	Ratio of winter to annual	1.03399	line 19 ÷ line 21
24			
25		Without Rev	WITH Rev
26		<u>Sensitive</u>	<u>Sensitive</u>
OR	Oregon Annual WACOG	\$0.32684	\$0.33602
OR	Oregon Winter WACOG	\$0.33795	\$0.34744
		line 23 * \$0.32684	
WA	Washington Annual WACOG	\$0.30754	\$0.32160
WA	Washington Winter WACOG	\$0.31799	\$0.33253
		line 23 * \$0.30754	

NW Natural
Rates & Regulatory Affairs
2015-2016 PGA Filing - Washington: September Filing
Calculation of Increments Allocated on the EQUAL PERCENTAGE OF MARGIN BASIS

				Mist Storage Recall for Core		
				Proposed Amount:	33,076 Permanent Increment	
				Revenue Sensitive Multiplier:	N/A rev sensitive factor is built in	
				Amount to Amortize:	33,076 all sales	
Schedule	Block	A		Multiplier T	Allocation to RS U	Increment V
1R		195,073		1.0	153	0.00078
1C		33,275		1.0	22	0.00066
2R		47,349,001		1.0	23,214	0.00049
3 CFS		16,528,921		1.0	7,253	0.00044
3 IFS		494,140		1.0	192	0.00039
27		292,826		1.0	99	0.00034
41C Firm Sales	Block 1	2,304,186		1.0	1,330	0.00034
	Block 2	1,829,429		1.0		0.00030
41C Interr Sales	Block 1	0		1.0	0	0.00033
	Block 2	0		1.0		0.00029
41 Firm Trans	Block 1	146,151		0.0	0	0.00000
	Block 2	182,278		0.0		0.00000
41I Firm Sales	Block 1	197,178		1.0	125	0.00035
	Block 2	176,667		1.0		0.00031
41I Interr Sales	Block 1	0		1.0	0	0.00033
	Block 2	0		1.0		0.00029
42C Firm Sales	Block 1	527,889		1.0	162	0.00023
	Block 2	193,130		1.0		0.00021
	Block 3	1,433		1.0		0.00016
	Block 4	0		1.0		0.00013
	Block 5	0		1.0		0.00008
	Block 6	0		1.0		0.00003
42I Firm Sales	Block 1	1,069,486		1.0	340	0.00020
	Block 2	653,627		1.0		0.00018
	Block 3	49,887		1.0		0.00014
	Block 4	0		1.0		0.00011
	Block 5	0		1.0		0.00007
	Block 6	0		1.0		0.00003
42 Firm Trans	Block 1	1,203,966		0.0	0	0.00000
	Block 2	1,247,863		0.0		0.00000
	Block 3	960,088		0.0		0.00000
	Block 4	1,401,040		0.0		0.00000
	Block 5	331,993		0.0		0.00000
	Block 6	0		0.0		0.00000
42C Interr Sales	Block 1	241,648		1.0	116	0.00014
	Block 2	468,617		1.0		0.00013
	Block 3	190,313		1.0		0.00010
	Block 4	33,749		1.0		0.00008
	Block 5	0		1.0		0.00005
	Block 6	0		1.0		0.00002
42I Interr Sales	Block 1	151,102		1.0	69	0.00028
	Block 2	105,893		1.0		0.00025
	Block 3	0		1.0		0.00019
	Block 4	0		1.0		0.00015
	Block 5	0		1.0		0.00010
	Block 6	0		1.0		0.00004
42 Inter Trans	Block 1	947,868		0.0	0	0.00000
	Block 2	1,645,477		0.0		0.00000
	Block 3	1,229,017		0.0		0.00000
	Block 4	3,810,108		0.0		0.00000
	Block 5	2,410,781		0.0		0.00000
	Block 6	0		0.0		0.00000
43 Firm Trans		0		0.0	0	0.00000
43 Interr Trans		0		0.0	0	0.00000
Intentionally blank						
Totals		88,604,100		36,139,860.0	33,075	

Sources for line 2 above:

Inputs page	Line 50
Tariff Schedules:	
Schedule #	Sched 220

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

NW Natural
2015-2016 PGA Filing
Recall of Mist Storage for Core
Allocation Between States

1					
2					
3			Total		
4	Net Investment recalled for core		Investment		
5			<u>\$1,801,429</u>		<i>From recall memo</i>
6	Allocation based on Actual Firm Sales volumes (12 mos ended 06/30/15):				
7			Allocated	Revenue	
8			Investment	Requirement	
9	Oregon	528,944,984	88.04%	\$1,585,978	\$234,753
10	Washington	71,846,975	11.96%	\$215,451	\$33,076
11		<u>600,791,959</u>	<u>100.0%</u>	<u>\$1,801,429</u>	<u>\$267,829</u>

Amount included in PGA

NW Natural
Rates & Regulatory Affairs
2015-16 Washington: September Filing Updating Energy Efficiency Schedules 201 & 203
Tariff Advice 15-8: Schedules 201 & 203 Effects on Revenue

	<u>Amount</u>
1	
2	
3	
4	
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12	
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15	
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20	

	<u>Temporary Increments</u>
	<u>Removal of Current Temporary Increments</u>
	Amortization of Annual PGA and Deferred Gas Costs
	(1,096,995)
	<u>Addition of Proposed Temporary Increments</u>
	Amortization of Annual PGA and Deferred Gas Costs
	<u>(2,820,968)</u>
	<u>Permanent Rate Adjustments</u>
	<u>Storage Recall for Core</u>
	33,076
	<u>TOTAL OF ALL COMPONENTS OF RATE CHANGES</u>
	<u>(\$3,884,887)</u>
	2013 Washington CBR Normalized Total Revenues
	\$73,292,422
	Effect of this filing, as a percentage change
	-5.30%

NOTICE TO CUSTOMERS

ANNUAL PURCHASED GAS COST ADJUSTMENT PROCESS

Each year, NW Natural files its purchased gas adjustment (PGA) with the Washington Utilities and Transportation Commission (WUTC). The purpose of the filing is to true-up differences between estimated and actual gas costs and to establish the cost of gas to be applied to customer bills for the Nov. through Oct. PGA cycle.

The company adjusts for gas cost changes each year. NW Natural does not profit from increases in gas costs.

When it files the PGA, NW Natural typically files to revise rates for other annual adjustments based on ongoing agreements with the WUTC.

NW Natural anticipates that a lower cost of gas will result in a **14.4 percent rate reduction** to residential customers starting Nov. 1, 2015.

For more information, visit the Rates & Regulations section of nwnatural.com or contact us at **503-226-4211** and ask for the Rates & Regulatory Department.

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