

ONITA R. KING
Rates & Regulatory Affairs
Tel: 503.721.2452
Fax: 503.721.2516
email: ork@nwnatural.com



September 28, 2015

NWN OPUC Advice No. 15-14 / UG 304
SUPPLEMENT A

VIA ELECTRONIC FILING

Public Utility Commission of Oregon
Attention: Filing Center
201 High Street SE, Suite 100
Post Office Box 1088
Salem, Oregon 97301-1088

Re: Replacement Filing: Combined Effects of:
UG 292: NWN OPUC Advice No. 15-06
UG 293: NWN OPUC Advice No. 15-07
UG 294: NWN OPUC Advice No. 15-08
UG 295: NWN OPUC Advice No. 15-09
UG 296: NWN OPUC Advice No. 15-10(A)
UG 297: NWN OPUC Advice No. 15-11
UG 298: NWN OPUC Advice No. 15-12(B)

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or the "Company"), files herewith revisions to its Tariff, P.U.C. Or. 25, stated to become effective with service on and after November 1, 2015, as follows:

Fourth Revision of Sheet 2-1,
Rate Schedule 2,
"Residential Sales Service;"

Fourth Revision of Sheet 3-4,
Rate Schedule 3,
"Basic Firm Sales Service – Non-Residential (continued),"

Third Revision of Sheet 27-1,
Rate Schedule 27,
"Residential Heating Dry-Out Service,"

Fourth Revision of Sheet 31-11,
Rate Schedule 31,
"Non-Residential Firm Sales and Firm Transportation Service (continued),"

Third Revision of Sheet 31-12,
Rate Schedule 32,
"Non-Residential Firm Sales and Firm Transportation Service (continued),"

Third Revision of Sheet 32-12,
 Rate Schedule 32,
 “Large Volume Non-Residential Sales and Transportation Service (continued),”

Fourth Revision of Sheet 32-13,
 Rate Schedule 32,
 “Large Volume Non-Residential Sales and Transportation Service (continued),”

Third Revision of Sheet 32-14,
 Rate Schedule 32,
 “Large Volume Non-Residential Sales and Transportation Service (continued),”

Third Revision of Sheet 33-8,
 Rate Schedule 33,
 “High Volume Non-Residential Firm and Interruptible Transportation Service
 (continued),”

Third Revision of Sheet 190-2,
 Schedule 190,
 “Partial Decoupling Mechanism (continued),”

Third Revision of Sheet 195-4,
 Schedule 195,
 “Weather Adjusted Rate Mechanism (WARM Program) (continued),” and

Third Revision of Sheet 195-5,
 Schedule 195,
 “Weather Adjusted Rate Mechanism (WARM Program) (continued).”

The purpose of this filing is to revise the Company’s Tariff Rate Schedules to reflect the combined effects of changes to rates proposed under the above-referenced filings. The Company withdraws in its entirety, NWN OPUC Advice 15-14 dated September 15, 2015.

The number of customers affected by the changes proposed in this filing is 572,721 residential customers, 58,300 commercial customers, and 805 industrial customers.

The net effect of the changes to rates associated with all of the referenced filings combined is to decrease the Company’s annual revenues by \$56,749,021 (including revenue sensitive effects).

The average monthly bill impact of the combined changes to rates is shown in the table below:

Class	Rate Schedule	Average Monthly Bill Change (\$)	Average Monthly Bill Change (%)
Residential	Schedule 2	-\$4.14	-6.7%
Commercial	Schedule 3	-\$17.54	-7.4%
Commercial Firm Sales	Schedule 31	-\$255.42	-9.8%
Industrial Firm Sales	Schedule 32	-\$2,292.85	-18.2%
Industrial Interruptible Sales	Schedule 32	-\$5,487.83	-22.4%

The monthly bill effects for all other rate classes can be found in Exhibit A to this filing.

Please note that the monthly bill effects for Rate Schedule 31 and Rate Schedule 32 do not include the effect of changes in the pipeline capacity charge due to the customer option to elect either an MDDV-based capacity charge or a volumetric-based capacity charge. If, for instance, a customer served under Rate Schedule 32 Industrial Firm Sales Service elected the volumetric pipeline capacity option, the change in the monthly bill effective November 1, 2014 would be \$82.96 or -3.2%.

The Company requests that the tariff sheets filed herewith be permitted to become effective with service on and after November 1, 2015.

Copies of this letter and the filing made herewith are available in the Company's main office in 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 x3589
eFiling@nwnatural.com

Sincerely,
NW NATURAL

/s/ Onita R. King

Onita R. King
Rates & Regulatory Affairs

Attachments: Exhibit A – Supporting Materials

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 2-1
Cancels Third Revision of Sheet 2-1

RATE SCHEDULE 2 RESIDENTIAL SALES SERVICE

AVAILABLE:

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

SERVICE DESCRIPTION:

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

Service to a Vehicle Fueling Appliance is subject to the conditions set forth in Special Provisions 3 through 5 of this Rate Schedule.

MONTHLY RATE: Effective: November 1, 2015

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. See **Schedule 100** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **Schedule 160**. The rates for service to a Vehicle Fueling Appliance shall be further adjusted as set forth in Special Provision 5 of this Rate Schedule.

	Base Rate	Base Adjustment [1]	Pipeline Capacity	Commodity	Temporary Adjustment	Total Billing
Customer Charge:	\$8.00	---	---	---	---	\$8.00
Volumetric Charge (per therm):	\$0.42890	\$0.01580	\$0.11849	\$0.33602	\$0.03592	\$0.93513

(R)

[1] Includes effects of Schedule 177, Schedule 182, and Schedule 187.

(N)

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

(continue to Sheet 2-2)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 3-4
Cancels Third Revision of Sheet 3-4

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

MONTHLY RATE: Effective: November 1, 2015

(T)

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

FIRM SALES SERVICE CHARGES: (03CSF and 03ISF)						Billing Rates [1]
Customer Charge (per month):						\$15.00
Volumetric Charges (per therm):	Base Rate	Base Adjustment [2]	Pipeline Capacity	Commodity Component [3]	Temporary Adjustment	
Commercial	\$0.34211	\$0.01231	\$0.11849	\$0.33602	\$0.07100	\$0.87993
Industrial	\$0.33596	\$0.00716	\$0.11849	\$0.33602	\$0.03309	\$0.83072
Standby Charge (per therm of MHDV) [4]:						\$10.00

(T)

(R)

(R)

(T)

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

[2] Includes effects of Schedule 177, Schedule 182, and Schedule 187

(N)

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

(T)

[4] Applies to Standby Sales Service only.

(T)

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

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 27-1
Cancels Second Revision of Sheet 27-1

RATE SCHEDULE 27 RESIDENTIAL HEATING DRY-OUT SERVICE

AVAILABLE:

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

SERVICE DESCRIPTION:

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

MONTHLY RATE: Effective: November 1, 2015

(T)

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

	Base Rate	Base Adjustment [1]	Pipeline Capacity Rate	Commodity Rate	Temporary Adjustment	Billing Rate
Customer Charge:	\$6.00	---	---	---	---	\$6.00
Volumetric Charge (per therm)						
All therms	\$0.32563	\$0.01278	\$0.11849	\$0.33602	\$0.01021	\$0.80313

(T)

[1] Includes effects of Schedule 177, Schedule 182, and Schedule 187

(N)

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

GENERAL TERMS:

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

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 31-11
Cancels Third Revision of Sheet 31-11

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

MONTHLY RATES FOR COMMERCIAL CUSTOMER CLASS:

Effective: November 1, 2015

(T)

The rates shown in this Rate Schedule may not always reflect actual billing rates. **See Schedule 100** for a list of applicable adjustments. Rates are subject to changes for purchased gas costs and technical rate adjustments. The rates for Coos County customers are subject to the additional adjustment set forth in **Schedule 160**. The rates for service to CNG vehicle fueling equipment shall be further adjusted as set forth in Provision No. 3 of the "SPECIAL CONDITIONS FOR COMPRESSED NATURAL GAS ("CNG") SERVICE FOR VEHICULAR USE" of this Rate Schedule.

FIRM SALES SERVICE CHARGES (31 CSF) [1]:					Billing Rates
Customer Charge (per month):					\$325.00
	Base Rate	Base Rate Adjustment [2]	Commodity Component [3]	Total Temporary Adjustments [4]	
Volumetric Charges (per therm)					
Block 1: 1st 2,000 therms	\$0.20403	\$0.00983	\$0.33602	\$0.06829	\$0.61817
Block 2: All additional therms	\$0.18615	\$0.00931	\$0.33602	\$0.06757	\$0.59905
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.11849
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$1.76
FIRM TRANSPORTATION SERVICE CHARGES (31 CTF):					
Customer Charge (per month):					\$325.00
Transportation Charge (per month):					\$250.00
	Base Rate	Base Rate Adjustment [2]		Total Temporary Adjustments [5]	
Volumetric Charges (per therm)					
Block 1: 1st 2,000 therms	\$0.17007	\$0.01115		\$0.00996	\$0.19118
Block 2: All additional therms	\$0.15518	\$0.01052		\$0.00910	\$0.17480

(T)

(R)

(R)

(R)

(R)

(T)

(R)

(R)

- [1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15. (N)
- [2] Includes effects of Schedule 177, Schedule 182, and Schedule 187. (T)
- [3] 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. (T)
- [4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply. (T)
- [5] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 162 may also apply. (T)

(continue to Sheet 31-12)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 31-12
Cancels Second Revision of Sheet 31-12

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

MONTHLY RATES FOR INDUSTRIAL CUSTOMER CLASS:

Effective: November 1, 2015

(T)

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

FIRM SALES SERVICE CHARGES (31 ISF) [1]:					Billing Rates
Customer Charge (per month):					\$325.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment [2]	Commodity Component [3]	Total Temporary Adjustments [4]	
Block 1: 1st 2,000 therms	\$0.16436	\$0.00452	\$0.33602	\$0.02976	\$0.53466
Block 2: All additional therms	\$0.14851	\$0.00410	\$0.33602	\$0.02918	\$0.51781
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.11849
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV):					\$1.76
FIRM TRANSPORTATION SERVICE CHARGES (31 ITF):					
Customer Charge (per month):					\$325.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment [2]		Total Temporary Adjustments [5]	
Block 1: 1st 2,000 therms	\$0.15939	\$0.00464		\$0.00628	\$0.17031
Block 2: All additional therms	\$0.14405	\$0.00420		\$0.00569	\$0.15394

(T)

(R)

(R)

(R)

(R)

(T)

(R)

(R)

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

[2] Includes effects of Schedule 177, Schedule 182, and Schedule 187.

(N)

[3] 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.

(T)

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

(T)

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

(T)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 32-12
Cancels Second Revision of Sheet 32-12

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

MONTHLY RATES:

Effective: November 1, 2015

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

(T)

FIRM SALES SERVICE CHARGES [1]:					Billing Rates
Customer Charge (per month, all service types):					\$675.00
	Base Rate	Base Rate Adjustment [2]	Commodity Component [3]	Total Temporary Adjustments [4]	
32 CSF Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.09579	\$0.00298	\$0.33602	\$0.02837	\$0.46316
Block 2: Next 20,000 therms	\$0.08141	\$0.00253	\$0.33602	\$0.02766	\$0.44762
Block 3: Next 20,000 therms	\$0.05749	\$0.00179	\$0.33602	\$0.02646	\$0.42176
Block 4: Next 100,000 therms	\$0.03354	\$0.00104	\$0.33602	\$0.02526	\$0.39586
Block 5: Next 600,000 therms	\$0.01918	\$0.00060	\$0.33602	\$0.02454	\$0.38034
Block 6: All additional therms	\$0.00959	\$0.00029	\$0.33602	\$0.02406	\$0.36996
32 ISF Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.09483	\$0.00270	\$0.33602	\$0.02728	\$0.46083
Block 2: Next 20,000 therms	\$0.08061	\$0.00230	\$0.33602	\$0.02675	\$0.44568
Block 3: Next 20,000 therms	\$0.05690	\$0.00161	\$0.33602	\$0.02586	\$0.42039
Block 4: Next 100,000 therms	\$0.03320	\$0.00095	\$0.33602	\$0.02497	\$0.39514
Block 5: Next 600,000 therms	\$0.01896	\$0.00054	\$0.33602	\$0.02444	\$0.37996
Block 6: All additional therms	\$0.00953	\$0.00027	\$0.33602	\$0.02409	\$0.36991
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					\$0.15748
Firm Sales Service Storage Charge (per therm of MDDV per month):					\$0.20415
Pipeline Capacity Charge Options (select one):					
Firm Pipeline Capacity Charge - Volumetric option (per therm):					\$0.11849
Firm Pipeline Capacity Charge - Peak Demand option (per therm of MDDV per month):					\$1.76

(T)

(R)

(R)

(R)

(R)

(R)

(R)

- [1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15. (N)
- [2] Includes effects of Schedule 177, Schedule 182, and Schedule 187. (T)
- [3] 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. (T)
- [4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply. (T)

(continue to Sheet 32-13)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Fourth Revision of Sheet 32-13
Cancels Third Revision of Sheet 32-13

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

MONTHLY RATES (continued):

Effective: November 1, 2015

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

INTERRUPTIBLE SALES SERVICE CHARGES [1][5]:					Billing Rates
Customer Charge (per month):					\$675.00
	Base Rate	Base Rate Adjustment [2]	Commodity Component [3]	Total Temporary Adjustments [4]	
32 CSI Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.09782	\$0.00273	\$0.33602	\$0.01408	\$0.45065
Block 2: Next 20,000 therms	\$0.08316	\$0.00231	\$0.33602	\$0.01356	\$0.43505
Block 3: Next 20,000 therms	\$0.05869	\$0.00164	\$0.33602	\$0.01270	\$0.40905
Block 4: Next 100,000 therms	\$0.03425	\$0.00095	\$0.33602	\$0.01184	\$0.38306
Block 5: Next 600,000 therms	\$0.01955	\$0.00055	\$0.33602	\$0.01131	\$0.36743
Block 6: All additional therms	\$0.00981	\$0.00028	\$0.33602	\$0.01098	\$0.35709
Interruptible Pipeline Capacity Charge (per therm):					\$0.01410
32 ISI Volumetric Charges (per therm):					
Block 1: 1st 10,000 therms	\$0.09777	\$0.00256	\$0.33602	\$0.01408	\$0.45043
Block 2: Next 20,000 therms	\$0.08311	\$0.00219	\$0.33602	\$0.01359	\$0.43491
Block 3: Next 20,000 therms	\$0.05866	\$0.00155	\$0.33602	\$0.01276	\$0.40899
Block 4: Next 100,000 therms	\$0.03422	\$0.00090	\$0.33602	\$0.01194	\$0.38308
Block 5: Next 600,000 therms	\$0.01955	\$0.00051	\$0.33602	\$0.01144	\$0.36752
Block 6: All additional therms	\$0.00979	\$0.00026	\$0.33602	\$0.01111	\$0.35718
Interruptible Pipeline Capacity Charge (per therm):					\$0.01410

- [1] The Monthly Bill shall equal the sum of the Customer Charge, plus the Volumetric Charges, plus the Pipeline Capacity Charge selected by the Customer, plus any other charges that may apply from Schedule C or Schedule 15. (N)
- [2] Includes effects of Schedule 177 and Schedule 182. (T)
- [3] 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. (T)
- [4] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Temporary Adjustments as set forth in Schedule 162 may not apply. (T)
- [5] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 162 may also apply. (T)

(continue to Sheet 32-14)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 32-14
Cancels Second Revision of Sheet 32-14

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

MONTHLY RATES (continued):

Effective: November 1, 2015

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

FIRM TRANSPORTATION SERVICE CHARGES (32 CTF or 32 ITF) [1]:					Billing Rates
Customer Charge (per month):					\$675.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment [2]		Total Temporary Adjustments [3]	
Block 1: 1st 10,000 therms	\$0.09455	\$0.00243		\$0.00351	\$0.10049
Block 2: Next 20,000 therms	\$0.08035	\$0.00206		\$0.00301	\$0.08542
Block 3: Next 20,000 therms	\$0.05674	\$0.00146		\$0.00216	\$0.06036
Block 4: Next 100,000 therms	\$0.03310	\$0.00085		\$0.00133	\$0.03528
Block 5: Next 600,000 therms	\$0.01891	\$0.00048		\$0.00082	\$0.02021
Block 6: All additional therms	\$0.00948	\$0.00025		\$0.00049	\$0.01022
Firm Service Distribution Capacity Charge (per therm of MDDV per month):					\$0.15748
INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (32 CTI or ITI) [4][5]:					
Customer Charge (per month):					\$675.00
Transportation Charge (per month):					\$250.00
Volumetric Charges (per therm)	Base Rate	Base Rate Adjustment [2]		Total Temporary Adjustments [3]	
Block 1: 1st 10,000 therms	\$0.09590	\$0.00226		\$0.00316	\$0.10132
Block 2: Next 20,000 therms	\$0.08152	\$0.00192		\$0.00271	\$0.08615
Block 3: Next 20,000 therms	\$0.05755	\$0.00136		\$0.00196	\$0.06087
Block 4: Next 100,000 therms	\$0.03357	\$0.00079		\$0.00120	\$0.03556
Block 5: Next 600,000 therms	\$0.01919	\$0.00046		\$0.00076	\$0.02041
Block 6: All additional therms	\$0.00962	\$0.00022		\$0.00045	\$0.01029

- [1] For Firm Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus the Distribution Capacity Charge, plus any other charges that may apply from Schedule C or Schedule 15. (T)
- [2] Includes effects of Schedule 177 and Schedule 182. (N)
- [3] Where applicable, the Account 191 Adjustments shall apply. (T)
- [4] For Interruptible Transportation Service, the Monthly Bill shall equal the sum of the Customer Charge, plus Transportation Charge, plus the Volumetric Charges, plus any other charges that may apply from Schedule C or Schedule 15. (T)
- [5] Where applicable, as set forth in this rate schedule, the Account 191 portion of the Sales Service Temporary Adjustments as set forth in Schedule 162 may also apply. (T)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 33-8
Cancels Second Revision of Sheet 33-8

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

MONTHLY RATE:

Effective: November 1, 2015

(T)

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

FIRM TRANSPORTATION SERVICE CHARGES (33 TF)					
					Billing Rates
Customer Charge:					\$38,000.00
Transportation Charge:					\$250.00
Volumetric Charge:		Base Rate	Base Rate Adjustments [2]	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00552	\$0.00014	\$0.00020	\$0.00586
Firm Service Distribution Capacity Charge: Per therm of MDDV per month					\$0.15748
Minimum Monthly Bill: Customer Charge, plus Transportation Charge, plus Firm Service Distribution Capacity Charge, plus any other charges that may apply from Schedule C and Schedule 15.					

(T)
(I)

INTERRUPTIBLE TRANSPORTATION SERVICE CHARGES (33 TI)					
					Billing Rates
Customer Charge:					\$38,000.00
Transportation Charge:					\$250.00
Volumetric Charge:		Base Rate	Base Rate Adjustments [2]	Total Temporary Adjustment [1]	
Per therm, all therms:		\$0.00552	\$0.00014	\$0.00020	\$0.00586
Minimum Monthly Bill: Customer Charge, plus Transportation Charge, plus any other charges that may apply from Schedule C and Schedule 15 .					

(T)
(I)

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

[2] Includes effects of Schedule 177 and Schedule 182.

(N)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

SCHEDULE 190
PARTIAL DECOUPLING MECHANISM
(continued)

PARTIAL DECOUPLING DEFERRAL ACCOUNT (continued):

2. The baseline use-per-customer is:

Residential:	636
Commercial:	3,845

3. Weather-normalized usage is calculated using the approach to weather normalization adopted in the Company's last general rate case, Docket UG 221. The weather data is taken from the stations identified in **Rule 24**.

Step One. For the heating season months October through May, usage is normalized by taking the difference between normal and actual heating degree days for each district using a base of 59 degrees for Residential and 58 degrees for Commercial.

Step Two. This step derives the per-therm customer variance by multiplying the heating degree-day difference by the usage coefficient of .16471 for Residential variances, and .85441 for Commercial variances.

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

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

5. The per therm distribution margins to be used in the deferral calculation effective November 1, 2015 is \$0.44470 per therm for Residential customers and \$0.32701 per therm for Commercial customers. (C)

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

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

GENERAL TERMS:

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

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 195-4
Cancels Second Revision of Sheet 195-4

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

WARM FORMULA: (continued)

- c. The applicable margins to be used in the calculation of the WARM Adjustment Factor effective with the WARM Period commencing November 1, 2015 are:

Rate Schedule 2:	\$0.44470	Rate Schedule 3:	\$0.35442
------------------	-----------	------------------	-----------

(T)

(I)

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

WARM BILL EFFECTS:

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

HDD Variance (+ or -)	RESIDENTIAL		COMMERCIAL	
	Equivalent therms	Total Monthly WARM adjustment (+ or -)*	Equivalent therms	Total Monthly WARM adjustment (+ or -)*
1	0.1647	\$0.07	0.8544	\$0.30
5	0.8236	\$0.37	4.2721	\$1.51
10	1.6471	\$0.73	8.5441	\$3.03
15	2.4707	\$1.10	12.8162	\$4.54
20	3.2942	\$1.46	17.0882	\$6.06
25	4.1178	\$1.83	21.3603	\$7.57
30	4.9413	\$2.20	25.6323	\$9.08
35	5.7649	\$2.56	29.9044	\$10.60
40	6.5884	\$2.93	34.1764	\$12.11
45	7.412	\$3.30	38.4485	\$13.63
50	8.2355	\$3.66	42.7205	\$15.14

(C)

(C)

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

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

(continue to Sheet 195-5)

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Third Revision of Sheet 195-5
Cancels Second Revision of Sheet 195-5

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

WARM BILL EFFECTS (continued):

Example Bill Calculation:

Here is the how the WARM adjustment is calculated for a residential **Rate Schedule 2** customer where the billing rate is \$0.93326 cents per therm, the HDD variance is 50 HDDs colder than normal, and the monthly therm usage is 129 therms:

(C)

HDD Differential:	Normal HDDs:	600 HDDs
	Actual HDDs:	650 HDDs
	HDD variance:	600 - 650 = -50 HDDs

Equivalent Therms:	HDD variance:	-50 HDDs
	Statistical coefficient:	0.16471
	Equivalent therms:	-50 x 0.16471 = -8.2355 therms

Total Warm Adjustment:	Equivalent therms:	-8.2355 therms
	Margin Rate:	\$0.44470
	Total WARM Adj.:	-8.2355 x \$0.44470 = (\$3.66233)

(C)

Total WARM Adjustment converted to cents per therm:	Total WARM Adj.:	(\$3.66233)
	Monthly usage:	129 therms
	Cent/therm Adj.:	-3.66233 ÷ 129 = (\$0.02839)

Billing Rate per therm:	Current Rate/therm:	\$0.93513
	WARM cent/therm Adj.:	(\$0.02839)
	WARM Billing Rate:	\$0.93513 + -\$0.02839 = \$0.90674

(C)

(C)

Total WARM Bill:	Customer Charge:	\$8.00
	Usage Charge:	\$0.90674
	Total	(129 x \$0.90674) + \$8.00 = \$124.97

(C)

(C)

GENERAL TERMS:

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

Issued September 28, 2015
NWN OPUC Advice No. 15-14A

Effective with service on
and after November 1, 2015

EXHIBIT A

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

NW NATURAL SUPPORTING MATERIALS

Combined Effects Replacement Filing

NWN OPUC Advice No. 15-14A / UG 304

September 28, 2015

NW NATURAL

EXHIBIT A

Supporting Material

Combined Effects

NWN OPUC ADVICE NO. 15-14A/ UG 304

Description	Page
Change in Average Bill by Rate Schedule	1
Calculation of Proposed Rates - Summary	2
Calculation of Proposed Rates - Detail	3
Combined Effects on Revenue	4
Estimated Revenue Effects (3% Test)	5
Workpaper for Warm Table in Rate Schedule 195	6

NW Natural
 Rates & Regulatory Affairs
 2015-16 PGA - Oregon: September Filing
 Effects on Average Bill by Rate Schedule
 ALL VOLUMES IN THERMS

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

		Oregon PGA Normalized Volumes page, Column D	Therms in Block	Normal Therms Monthly Average use	Minimum Monthly Charge	11/1/2014 Billing Rates	11/1/2014 Current Average Bill	Proposed 11/1/2015 Combined Rates	Proposed 11/1/2015 Combined Average Bill	Proposed 11/1/2015 Combined % Bill Change	
	Schedule	Block	A	B	C	D	E	F=D+(C * E)	AI= D+(C*AH)	AJ = (AI-F)/F	
								F	AH	AI	
7	2R		365,285,306	N/A	53.0	8.00	1.01330	61.70	0.93513	57.56	-6.7%
8	3C Firm Sales		158,936,755	N/A	233.0	15.00	0.95518	237.56	0.87993	220.02	-7.4%
9	3I Firm Sales		3,811,735	N/A	1,143.0	15.00	0.93199	1,080.26	0.83072	964.51	-10.7%
10	27 Dry Out		700,552	N/A	38.0	6.00	0.91	40.55	0.80313	36.52	-9.9%
11	31C Firm Sales	Block 1	20,701,736	2,000	3,324.0	325.00	0.69453		0.61817		
12		Block 2	15,317,497	all additional			0.67662		0.59905		
13		Total						2,609.90		2,354.48	-9.8%
14	31C Firm Trans	Block 1	1,022,480	2,000	1,374.0	575.00	0.17309		0.19118		
15		Block 2	1,238,213	all additional			0.15815		0.17480		
16		Total						812.83		837.68	3.1%
17	31I Firm Sales	Block 1	4,178,853	2,000	5,744.0	325.00	0.63779		0.53466		
18		Block 2	9,536,789	all additional			0.62191		0.51781		
19		Total						3,929.01		3,333.00	-15.2%
20	31I Firm Trans	Block 1	181,494	2,000	8,981.0	575.00	0.15988		0.17031		
21		Block 2	680,650	all additional			0.14450		0.15394		
22		Total						1,903.51		1,990.28	4.6%
23	32C Firm Sales	Block 1	26,567,626	10,000	8,483.0	675.00	0.56907		0.46316		
24		Block 2	7,804,067	20,000			0.55465		0.44762		
25		Block 3	829,092	20,000			0.53064		0.42176		
26		Block 4	20,793	100,000			0.50663		0.39586		
27		Block 5	0	600,000			0.49221		0.38034		
28		Block 6	0	all additional			0.48261		0.36996		
29		Total						5,502.42		4,603.99	-16.3%
30	32I Firm Sales	Block 1	4,645,409	10,000	21,272.0	675.00	0.56814		0.46083		
31		Block 2	5,152,955	20,000			0.55389		0.44568		
32		Block 3	1,826,257	20,000			0.53013		0.42039		
33		Block 4	627,963	100,000			0.50636		0.39514		
34		Block 5	(0)	600,000			0.49210		0.37996		
35		Block 6	0	all additional			0.48263		0.36991		
36		Total						12,599.85		10,307.00	-18.2%
37	32 Firm Trans	Block 1	12,006,597	10,000	55,532.0	925.00	0.09488		0.10049		
38		Block 2	16,315,496	20,000			0.08064		0.08542		
39		Block 3	9,641,378	20,000			0.05697		0.06036		
40		Block 4	16,134,178	100,000			0.03327		0.03528		
41		Block 5	21,282,059	600,000			0.01906		0.02021		
42		Block 6	1,920,752	all additional			0.00959		0.01022		
43		Total						4,810.05		5,040.67	4.8%
44	32C Interr Sales	Block 1	5,686,222	10,000	29,595.0	675.00	0.57809		0.45065		
45		Block 2	7,563,208	20,000			0.56339		0.43505		
46		Block 3	3,897,038	20,000			0.53889		0.40905		
47		Block 4	4,445,365	100,000			0.51438		0.38306		
48		Block 5	71,870	600,000			0.49967		0.36743		
49		Block 6	0	all additional			0.48989		0.35709		
50		Total						17,495.53		13,706.30	-21.7%
51	32I Interr Sales	Block 1	7,186,289	10,000	42,618.0	675.00	0.57815		0.45043		
52		Block 2	8,946,142	20,000			0.56345		0.43491		
53		Block 3	5,135,755	20,000			0.53895		0.40899		
54		Block 4	10,445,179	100,000			0.51445		0.38308		
55		Block 5	4,597,392	600,000			0.49977		0.36752		
56		Block 6	1	all additional			0.48997		0.35718		
57		Total						24,525.97		19,038.14	-22.4%
58	32 Interr Trans	Block 1	8,779,332	10,000	194,626.0	925.00	0.09620		0.10132		
59		Block 2	15,689,249	20,000			0.08179		0.08615		
60		Block 3	11,306,695	20,000			0.05777		0.06087		
61		Block 4	28,429,084	100,000			0.03373		0.03556		
62		Block 5	56,035,539	600,000			0.01933		0.02041		
63		Block 6	78,278,646	all additional			0.00975		0.01029		
64		Total						8,913.82		9,345.42	4.8%
65	33		0	N/A	0.0	38,000.00	0.00554	38,000.00	0.00586	38,000.00	0.0%
66											
67	Totals		962,859,686	0							
68											
69											

Sources:

Direct Inputs	per Tariff	per Tariff
Rates in summary	Column A	Column I
Permanents		
Temporaries		
PRIOR YEAR Temporaries		

[1] For convenience of presentation, the cent per therm demand charge is used, rather than the available MDDV demand option for Rate Schedules 31 and 32.

NW Natural
Rates & Regulatory Affairs
2015-16 PGA - Oregon: September Filing
Calculation of Proposed Rates - SUMMARY

		11/1/2014 Billing Rates	Net change WACOG	Net change Demand [1]	Proposed Rates PGA Only [1]	Net change Permanent Increments	Net change Temporary Increments	ADD Proposed Mist Storage Recall Adjustment	ADD Proposed Sch 182 Rate Adj Adjustment	Proposed 11/1/2015 Rates [1]
		D=A+B+C								I=D+E+F+G+H
Schedule	Block	A	B	C	D	E	F	G	H	I
2R		1.01330	(0.09781)	(0.00390)	0.91159	0.00122	0.01211	0.00045	0.00976	0.93513
3C Firm Sales		0.95518	(0.09781)	(0.00390)	0.85347	0.00112	0.01812	0.00032	0.00690	0.87993
3I Firm Sales		0.93199	(0.09781)	(0.00390)	0.83028	0.00022	(0.00591)	0.00027	0.00586	0.83072
27 Dry Out		0.90927	(0.09781)	(0.00390)	0.80756	0.00121	(0.01311)	0.00037	0.00710	0.80313
31C Firm Sales	Block 1	0.69453	(0.09781)		0.59672	0.00107	0.01534	0.00024	0.00480	0.61817
	Block 2	0.67662	(0.09781)		0.57881	0.00105	0.01459	0.00022	0.00438	0.59905
31C Firm Trans	Block 1	0.17309	0.00000		0.17309	0.00123	0.01068	0.00000	0.00618	0.19118
	Block 2	0.15815	0.00000		0.15815	0.00120	0.00981	0.00000	0.00564	0.17480
31I Firm Sales	Block 1	0.63779	(0.09781)		0.53998	0.00015	(0.00933)	0.00017	0.00369	0.53466
	Block 2	0.62191	(0.09781)		0.52410	0.00014	(0.00993)	0.00016	0.00334	0.51781
31I Firm Trans	Block 1	0.15988	0.00000		0.15988	0.00016	0.00630	0.00000	0.00397	0.17031
	Block 2	0.14450	0.00000		0.14450	0.00015	0.00570	0.00000	0.00359	0.15394
32C Firm Sales	Block 1	0.56907	(0.09781)		0.47126	0.00011	(0.01066)	0.00014	0.00231	0.46316
	Block 2	0.55465	(0.09781)		0.45684	0.00010	(0.01140)	0.00012	0.00196	0.44762
	Block 3	0.53064	(0.09781)		0.43283	0.00007	(0.01261)	0.00008	0.00139	0.42176
	Block 4	0.50663	(0.09781)		0.40882	0.00003	(0.01385)	0.00005	0.00081	0.39586
	Block 5	0.49221	(0.09781)		0.39440	0.00003	(0.01458)	0.00003	0.00046	0.38034
	Block 6	0.48261	(0.09781)		0.38480	0.00001	(0.01509)	0.00001	0.00023	0.36996
32I Firm Sales	Block 1	0.56814	(0.09781)		0.47033	0.00007	(0.01188)	0.00010	0.00221	0.46083
	Block 2	0.55389	(0.09781)		0.45608	0.00006	(0.01243)	0.00009	0.00188	0.44568
	Block 3	0.53013	(0.09781)		0.43232	0.00004	(0.01335)	0.00006	0.00132	0.42039
	Block 4	0.50636	(0.09781)		0.40855	0.00003	(0.01425)	0.00004	0.00077	0.39514
	Block 5	0.49210	(0.09781)		0.39429	0.00002	(0.01481)	0.00002	0.00044	0.37996
	Block 6	0.48263	(0.09781)		0.38482	0.00001	(0.01515)	0.00001	0.00022	0.36991
32 Firm Trans	Block 1	0.09488	0.00000		0.09488	0.00008	0.00347	0.00000	0.00206	0.10049
	Block 2	0.08064	0.00000		0.08064	0.00006	0.00297	0.00000	0.00175	0.08542
	Block 3	0.05697	0.00000		0.05697	0.00005	0.00210	0.00000	0.00124	0.06036
	Block 4	0.03327	0.00000		0.03327	0.00003	0.00126	0.00000	0.00072	0.03528
	Block 5	0.01906	0.00000		0.01906	0.00001	0.00073	0.00000	0.00041	0.02021
	Block 6	0.00959	0.00000		0.00959	0.00001	0.00041	0.00000	0.00021	0.01022
32C Interr Sales	Block 1	0.57809	(0.09781)		0.48028	0.00009	(0.03207)	0.00010	0.00225	0.45065
	Block 2	0.56339	(0.09781)		0.46558	0.00007	(0.03259)	0.00008	0.00191	0.43505
	Block 3	0.53889	(0.09781)		0.44108	0.00005	(0.03349)	0.00006	0.00135	0.40905
	Block 4	0.51438	(0.09781)		0.41657	0.00003	(0.03436)	0.00003	0.00079	0.38306
	Block 5	0.49967	(0.09781)		0.40186	0.00002	(0.03492)	0.00002	0.00045	0.36743
	Block 6	0.48989	(0.09781)		0.39208	0.00001	(0.03524)	0.00001	0.00023	0.35709
32I Interr Sales	Block 1	0.57815	(0.09781)		0.48034	0.00007	(0.03218)	0.00009	0.00211	0.45043
	Block 2	0.56345	(0.09781)		0.46564	0.00006	(0.03267)	0.00008	0.00180	0.43491
	Block 3	0.53895	(0.09781)		0.44114	0.00005	(0.03353)	0.00006	0.00127	0.40899
	Block 4	0.51445	(0.09781)		0.41664	0.00003	(0.03436)	0.00003	0.00074	0.38308
	Block 5	0.49977	(0.09781)		0.40196	0.00001	(0.03489)	0.00002	0.00042	0.36752
	Block 6	0.48997	(0.09781)		0.39216	0.00001	(0.03521)	0.00001	0.00021	0.35718
32 Interr Trans	Block 1	0.09620	0.00000		0.09620	0.00007	0.00312	0.00000	0.00193	0.10132
	Block 2	0.08179	0.00000		0.08179	0.00006	0.00266	0.00000	0.00164	0.08615
	Block 3	0.05777	0.00000		0.05777	0.00004	0.00190	0.00000	0.00116	0.06087
	Block 4	0.03373	0.00000		0.03373	0.00003	0.00113	0.00000	0.00067	0.03556
	Block 5	0.01933	0.00000		0.01933	0.00002	0.00067	0.00000	0.00039	0.02041
	Block 6	0.00975	0.00000		0.00975	0.00000	0.00035	0.00000	0.00019	0.01029
33		0.00554	0.00000	0.00000	0.00554	0.00000	0.00020	0.00000	0.00012	0.00586

Sources:

Direct Inputs	Oct 2014 filing
Rates in detail	Col F - Col B Col G+H-C-D Col K - Col J Col M - Col L

[1] For convenience of presentation, demand charges for Rate Schedules 31 and 32 are omitted

NW Natural
Rates & Regulatory Affairs
2015-16 PGA - Oregon: September Filing
Calculation of Proposed Rates- DETAIL

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 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57	11/1/2014		REMOVE			ADD			Current		Proposed		Current		Proposed		ADD		Proposed		11/01/15 Proposed Tariff Rates [1]
	Schedule	Block	REMO WACOG	REMO FIRM	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	REMO D	
2R		0.43383	0.12239	0.00000	0.45208	0.00000	0.00000	0.91159	0.00559	0.02381	0.02592	0.02482	0.00045	0.00976	0.93513	0.83513					
3C Firm Sales		0.95138	0.12239	0.00000	0.39896	0.00000	0.11849	0.85347	0.00397	0.03288	0.02100	0.87271	0.00032	0.00689	0.82953	0.87993					
3I Firm Sales		0.93199	0.12239	0.00000	0.37577	0.00000	0.18449	0.93028	0.00081	0.01033	0.03900	0.82459	0.00027	0.00596	0.83072	0.83072					
Z7 DRY OUT		0.90927	0.12239	0.00000	0.35305	0.00000	0.11849	0.80756	0.00041	0.00531	0.02332	0.10121	0.79566	0.00010	0.80913	0.80913					
31C Firm Sales		0.69453	0.43383	0.00000	0.26070	0.00000	0.11849	0.71521	0.00479	0.00479	0.00629	0.73162	0.00024	0.00048	0.73666	0.61817					
Block 2		0.67662	0.43383	0.00000	0.24279	0.00000	0.11849	0.69730	0.00386	0.00471	0.00598	0.71294	0.00022	0.00048	0.71754	0.59095					
31C Firm Trans		0.17309	0.00000	0.00000	0.17309	0.00000	0.00000	0.17309	0.00374	0.00497	0.00956	0.18500	0.00000	0.00000	0.19118	0.19118					
Block 2		0.15815	0.00000	0.00000	0.15815	0.00000	0.00000	0.15815	0.00368	0.00488	0.00956	0.16916	0.00000	0.00564	0.17480	0.17480					
31I Firm Sales		0.63779	0.43383	0.00000	0.20396	0.00000	0.11849	0.58847	0.00061	0.00066	0.00929	0.64929	0.00017	0.00369	0.65315	0.53466					
Block 2		0.62191	0.43383	0.00000	0.18808	0.00000	0.11849	0.64259	0.00060	0.00060	0.00929	0.63280	0.00016	0.00334	0.63630	0.51781					
31I Firm Trans		0.15988	0.00000	0.00000	0.15988	0.00000	0.00000	0.15988	0.00051	0.00067	0.00628	0.16634	0.00000	0.00397	0.17031	0.17031					
Block 2		0.14500	0.00000	0.00000	0.14500	0.00000	0.00000	0.14500	0.00046	0.00061	0.00569	0.15035	0.00000	0.00359	0.15394	0.15394					
32C Firm Sales		0.56907	0.43383	0.00000	0.13524	0.00000	0.11849	0.58975	0.00042	0.00042	0.02837	0.57920	0.00014	0.00231	0.58165	0.46316					
Block 2		0.55465	0.43383	0.00000	0.12082	0.00000	0.11849	0.57533	0.00035	0.00045	0.03906	0.56403	0.00012	0.00196	0.56611	0.44762					
Block 3		0.53064	0.43383	0.00000	0.09681	0.00000	0.11849	0.55132	0.00025	0.00032	0.03907	0.53878	0.00008	0.00139	0.54025	0.42176					
Block 4		0.50663	0.43383	0.00000	0.07280	0.00000	0.11849	0.52731	0.00015	0.00018	0.02526	0.51349	0.00005	0.00081	0.51435	0.39586					
Block 5		0.49221	0.43383	0.00000	0.05838	0.00000	0.11849	0.51289	0.00011	0.00011	0.03912	0.49834	0.00003	0.00046	0.49883	0.38034					
Block 6		0.48261	0.43383	0.00000	0.04878	0.00000	0.11849	0.50329	0.00004	0.00005	0.03912	0.48821	0.00001	0.00023	0.48965	0.36996					
32I Firm Sales		0.56814	0.00000	0.00000	0.13431	0.00000	0.00000	0.58882	0.00039	0.00316	0.02728	0.57701	0.00010	0.00221	0.57932	0.46083					
Block 2		0.55389	0.00000	0.00000	0.12006	0.00000	0.00000	0.57457	0.00033	0.00033	0.02675	0.56220	0.00009	0.00188	0.56417	0.44568					
Block 3		0.53013	0.00000	0.00000	0.09630	0.00000	0.00000	0.55081	0.00023	0.00023	0.02586	0.53750	0.00006	0.00132	0.53888	0.42039					
Block 4		0.50636	0.00000	0.00000	0.07253	0.00000	0.00000	0.52704	0.00011	0.00011	0.03922	0.02497	0.00004	0.00077	0.51363	0.39514					
Block 5		0.49210	0.00000	0.00000	0.05827	0.00000	0.00000	0.51278	0.00006	0.00006	0.03925	0.02444	0.00002	0.00044	0.49799	0.37996					
Block 6		0.48263	0.00000	0.00000	0.04880	0.00000	0.00000	0.50331	0.00003	0.00004	0.03924	0.02409	0.00001	0.00022	0.48840	0.36991					
32I Firm Trans		0.09488	0.00000	0.00000	0.09488	0.00000	0.00000	0.09488	0.00037	0.00037	0.04351	0.09843	0.00000	0.00206	0.10049	0.10049					
Block 2		0.08064	0.00000	0.00000	0.08064	0.00000	0.00000	0.08064	0.00025	0.00031	0.00301	0.08367	0.00000	0.00175	0.08542	0.08542					
Block 3		0.05697	0.00000	0.00000	0.05697	0.00000	0.00000	0.05697	0.00017	0.00022	0.00086	0.02216	0.00000	0.00124	0.06036	0.06036					
Block 4		0.03327	0.00000	0.00000	0.03327	0.00000	0.00000	0.03327	0.00010	0.00013	0.00007	0.00133	0.00000	0.00072	0.03528	0.03528					
Block 5		0.01906	0.00000	0.00000	0.01906	0.00000	0.00000	0.01906	0.00006	0.00007	0.00062	0.00190	0.00000	0.00041	0.02021	0.02021					
Block 6		0.00959	0.00000	0.00000	0.00959	0.00000	0.00000	0.00959	0.00003	0.00004	0.00049	0.00099	0.00001	0.00021	0.01022	0.01022					
32C Interr Sales		0.57809	0.43383	0.00000	0.14426	0.00000	0.00000	0.49438	0.00029	0.00038	0.04615	0.01408	0.00010	0.00225	0.46475	0.45065					
Block 2		0.56339	0.43383	0.00000	0.12956	0.00000	0.00000	0.47968	0.00025	0.00032	0.04615	0.01356	0.00008	0.00191	0.44915	0.43505					
Block 3		0.53889	0.43383	0.00000	0.10506	0.00000	0.00000	0.45518	0.00018	0.00023	0.04619	0.01270	0.00006	0.00135	0.42315	0.40905					
Block 4		0.51438	0.43383	0.00000	0.08055	0.00000	0.00000	0.43067	0.00010	0.00013	0.04620	0.01184	0.00003	0.00079	0.39716	0.38306					
Block 5		0.49967	0.43383	0.00000	0.06584	0.00000	0.00000	0.41596	0.00006	0.00008	0.04623	0.01131	0.00002	0.00045	0.38153	0.36743					
Block 6		0.48989	0.43383	0.00000	0.05606	0.00000	0.00000	0.40618	0.00003	0.00004	0.04622	0.01098	0.00001	0.00023	0.37119	0.35709					
32I Interr Trans		0.57815	0.00000	0.00000	0.14432	0.00000	0.00000	0.49444	0.00029	0.00036	0.04626	0.01408	0.00009	0.00211	0.46453	0.45043					
Block 2		0.56345	0.00000	0.00000	0.12962	0.00000	0.00000	0.47974	0.00025	0.00031	0.04626	0.01359	0.00008	0.00180	0.44901	0.43491					
Block 3		0.53895	0.00000	0.00000	0.10512	0.00000	0.00000	0.45524	0.00017	0.00022	0.04629	0.01276	0.00006	0.00127	0.42309	0.40899					
Block 4		0.51445	0.00000	0.00000	0.08062	0.00000	0.00000	0.43074	0.00010	0.00013	0.04630	0.01194	0.00003	0.00074	0.39718	0.38308					
Block 5		0.49977	0.00000	0.00000	0.06594	0.00000	0.00000	0.41606	0.00006	0.00007	0.04633	0.01144	0.00002	0.00042	0.38162	0.36752					
Block 6		0.48997	0.00000	0.00000	0.05614	0.00000	0.00000	0.40626	0.00003	0.00004	0.04632	0.01111	0.00001	0.00021	0.37128	0.35718					
32 Interr Trans		0.09620	0.00000	0.00000	0.09620	0.00000	0.00000	0.09620	0.00026	0.00033	0.00004	0.00316	0.00000	0.00193	0.10132	0.10132					
Block 2		0.08179	0.00000	0.00000	0.08179	0.00000	0.00000	0.08179	0.00022	0.00028	0.00005	0.00271	0.00000	0.00164	0.08615	0.08615					
Block 3		0.05777	0.00000	0.00000	0.05777	0.00000	0.00000	0.05777	0.00016	0.00020	0.00016	0.00196	0.00000	0.00116	0.06087	0.06087					
Block 4		0.03373	0.00000	0.00000	0.03373	0.00000	0.00000	0.03373	0.00009	0.00012	0.00007	0.00200	0.00000	0.00067	0.03556	0.03556					
Block 5		0.01933	0.00000	0.00000	0.01933	0.00000	0.00000	0.01933	0.00005	0.00007	0.00009	0.00076	0.00000	0.00039	0.02041	0.02041					
Block 6		0.00975	0.00000	0.00000	0.00975	0.00000	0.00000	0.00975	0.00003	0.00003	0.00010	0.00045	0.00000	0.00019	0.01029	0.01029					
33		0.00554	0.00000	0.00000	0.00554	0.00000	0.00000	0.00554	0.00002	0.00002	0.00000	0.00574	0.00000	0.00012	0.00586	0.00586					

Sources:
Direct Inputs
Oct 2014 filing
14-15 PGA
14-15 PGA
14-15 PGA
Gas Cost file
Gas Cost file
Gas Cost file
Gas Cost file
14-15 PGA
14-15 PGA
14-15 PGA
Column E
Column M
Column M

[1] For convenience of presentation, the cent per therm demand change is used, rather than the available MDDV demand option. Column P details the rates proposed for the tariff, which EXCLUDES DEMAND FOR RATE SCHEDULES 31 and 32.

NW Natural
Rates & Regulatory Affairs
2015-2016 PGA Filing - Oregon: September Filing
PGA Effects on Revenue - COMBINED EFFECTS

	Including Revenue Sensitive Amount*
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	
32	
33	
34	
35	
36	
37	
38	
39	

Purchased Gas Cost Adjustment (PGA)

Gas Cost Change (\$66,754,904)

Capacity Cost Change (1,679,662)

Total PGA Change (68,434,566)

Temporary Rate Adjustments

Proposed Temporary Increments 29,851,086

Removal of Other Current Temporary Increments (24,227,752)

Total Net Temporary Rate Adjustment 5,623,334

Base Rate Adjustments

Proposed Safety Program Costs 3,121,739

Removal of Current Safety Program Costs (2,434,719)

Mist Recall to Core 234,753

Sch. 182 5,140,437

Total Net Base Rate Adjustment 6,062,210

TOTAL OF ALL COMPONENTS OF ALL RATE CHANGES (\$56,749,021)

2014 Oregon Earnings Test Normalized Total Revenues \$678,848,000

Effect of this filing, as a percentage change (line 31 ÷ line 37) -8.36%

*Except for decoupling

**NW Natural
 Rates and Regulatory Affairs
 2015-16 PGA - Oregon: September Filing
 Attachment C: 3% Test**

	<u>Surcharge</u>	<u>Credit</u>	
1			
2			2014-2015 PGA Gas Cost True-Up
3	(2,648,070)		
4			Non-Gas Cost Amortizations
5		(65,138)	Residual Deferral
6	178,504		Intervenor Funding
7	3,242,119		Industrial DSM
8	20,555,284		Decoupling
9	3,121,739		SIP
10	27,097,646	(65,138)	Subtotal
11			
12	24,449,576	(65,138)	Total
13			
14			Total Proposed Amortization
15			Less: (1)
16		(178,504)	Intervenor Funding (1)
17		(3,242,119)	Industrial DSM (1)
18		(20,555,284)	Decoupling (1)
19		(3,121,739)	SIP (2)
20			
21			Net Proposed Amortizations (subject to the 3% test)
22			
23			Utility Gross Revenues (2014)
24			678,848,000
25			3% of Utility Gross Revenues
26			20,365,440
27			Allowed Amortization
28			(2,713,208)
29			Allowed Amortization as % of Gross Revenues
30			-0.4%

31 Notes:

- 32 (1) Amortizations of the deferral are not subject to the 3% test pursuant to ORS 757.259 as they are
 33 automatic adjustment clauses.
 34 (2) Amortizations not subject to the 3% test as they are not deferrals, but rather capital projects to be
 35 included in rate base.

NW Natural
2015-16 PGA Filing: Oregon
SEPTEMBER FILING
Workpaper for WARM table in RS 195

	\$0.44470 Residential		\$0.35442 Commercial	
	Therms	\$WARM Adj	Therms	\$WARM Adj
1	0.1647	\$0.07	0.8544	\$0.30
5	0.8236	\$0.37	4.2721	\$1.51
10	1.6471	\$0.73	8.5441	\$3.03
15	2.4707	\$1.10	12.8162	\$4.54
20	3.2942	\$1.46	17.0882	\$6.06
25	4.1178	\$1.83	21.3603	\$7.57
30	4.9413	\$2.20	25.6323	\$9.08
35	5.7649	\$2.56	29.9044	\$10.60
40	6.5884	\$2.93	34.1764	\$12.11
45	7.4120	\$3.30	38.4485	\$13.63
50	8.2355	\$3.66	42.7205	\$15.14

Billing rate less temps, WACOG & Demand

Sheet 195-5 Calculations - Residential Schedule 2

HDDs variance	Stat. coefficient	Therms	Margin calc.	Usage (therms)	WARM Adj.	Current Rate	WARM Adj. Rate	WARM bill
-50	0.16471		-8.2355	-3.66233	-0.02839	\$0.93513	\$0.90674	\$124.97
					129			