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COMPANY NAME: NW Natural

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes If yes, submit a redacted public version (or a cover letter) by email. Submit the confidential information as directed in OAR 860-001-0070 or the terms of an applicable protective order.

Select report type: RE (Electric) RG (Gas) RW (Water) RT (Telecommunications)
RO (Other, for example, industry safety information)
Did you previously file a similar report? No Section Yes, report docket number: RG 40
Report is required by: OAR 860-022-0070
Statute
Order
Note: A one-time submission required by an order is a compliance filing and not a report
(file compliance in the applicable docket)
Other
(For example, federal regulations, or requested by Staff)
Is this report associated with a specific docket/case? No Section Yes, docket number: RG 40

List Key Words for this report. We use these to improve search results.

Earning Review for the Twelve Months Ended December 31, 2017, Annual Results of Operations Report, RG 40

Send the completed Cover Sheet and the Report in an email addressed to PUC.FilingCenter@state.or.us

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VIA ELECTRONIC FILING

May 1, 2018

Public Utility Commission of Oregon Attention: Filing Center 201 High Street SE Suite 100 Post Office Box 1088 Salem, Oregon 97308-1088

RE: RG 40: NW Natural's Earnings Review without Workpapers for the Twelve Months Ended December 31, 2017

Pursuant to OAR 860-022-0070, Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company"), files herewith its Earnings Review without workpapers for the twelve months ended December 31, 2017. Per order No. 15-049, please see the second page of the earnings review that incorporates the Asset Management Agreement Optimization (AMA) revenues. NW Natural's Earnings Review return on equity results are as follows:

- Traditional Review: 8.998%
- Traditional Including AMA: 9.259%

Please feel free to call if you have any questions.

Sincerely,

/s/ Kyle Walker, CPA

Kyle Walker, CPA Rates Analyst



REPORT: RG 40 ANNUAL EARNINGS REVIEW WITHOUT WORKPAPERS

(For the twelve months ended December 31, 2017)

NW Natural 2017 Oregon Earnings Review 12 Months Ended December 31, 2017 (\$000's)

(+		OREGON EARNINGS TEST REVIEW												
Line	-	Test Year	TYPE I	Results	Gas Reserves	Results Excl.	TYPE II	Results						
No.	-	Results	Adjustments	after Type I	Adiustment ⁽¹⁾	Gas Reserves ⁽¹⁾	Adjustments	after Type II						
		(a)	(b)	(c)	(d)	(e)	(f)	(g) = (c) + (f)						
	Operating Revenues													
1	Sale of Gas	\$671,195	(\$18,268)	\$652,927		\$652,927	\$0	\$652,927						
2	WARM Revenues	(16,870)	16,870	0		0	0	0						
3	Revenue & Technical Adjustments	(6,188)	0	(6,188)		(6,188)	0	(6,188)						
4	Decoupling Adjustments	8,638	(8,638)	0		0	0	0						
5	Transportation	17,987	0	17,987		17,987	0	17,987						
6	Miscellaneous Revenues	3,609	0	3,609		3,609	0	3,609						
7	Total Operating Revenues	678,371	(10,035)	668,336	0	668,336	0	668,336						
	Operating Revenue Deductions													
8	Gas Purchased	295,366	(8,085)	287,282	6,617	293,899	0	287,282						
9	Uncollectible Accrual for Gas Sales	771	(19)	752		752	0	752						
10	Other Operating & Maintenance Expenses	146,326	(4,035)	142,291		142,291	0	142,291						
11	Total Operating & Maintenance Exp.	442,463	(12,138)	430,325	6,617	436,942	0	430,325						
12	Federal Income Tax	30,467	1,188	31,655	(1,471)		0	31,655						
13	State Excise	7,231	280	7,511	0	7,511	0	7,511						
14	Property Taxes	20,386	(268)	20,118		20,118	0	20,118						
15	Other Taxes	24,016	(38)	23,978		23,978	0	23,978						
16	Depreciation & Amortization	71,062	0	71,062		71,062	0	71,062						
17	Total Operating Revenue Deductions	595,626	(10,976)	584,650	5,146	589,796	0	584,650						
18	Net Operating Revenues	\$82,745	\$941	\$83,686	(\$5,146)	\$78,540	\$0	\$83,686						
	Average Rate Base													
19	Utility Plant in Service	\$2,766,558	(\$1,312)	\$2,765,246	(187,536)		\$0	\$2,765,246						
20	Accumulated Depreciation	(1,227,221)	0	(1,227,221)	79,506	(1,147,715)	0	(1,227,221)						
21	Net Utility Plant	1,539,337	(1,312)	1,538,025	(108,031)	1,429,994	0	1,538,025						
22	Aid in Advance of Construction	(2,852)	0	(2,852)		(2,852)	0	(2,852						
23	Customer Deposits	(4,446)	0	(4,446)		(4,446)	0	(4,446)						
24	Materials & Supplies	61,966	0	61,966		61,966	0	61,966						
25	Leasehold Improvements	336	0	336		336	0	336						
26	Accumulated Deferred Income Taxes	(431,266)	0	(431,266)	31,018	(400,248) 0	0	(431,266)						
27	Total Rate Base	\$1,163,075	(\$1,312)	\$1,161,763	(\$77,013)		\$0	\$1,161,763						
28	Rate of Return	7.110%	_	7.200%	6.680%	7.240%		7.200%						
29	Return on Common Equity	8.817%	=	8.998%	7.953%			8.998%						
-/	equity =	0.01770	=	0.77070	1.75570	7.07070		0.77070						

Notes: ⁽¹⁾Columns (d) and (e) added in accordance with Order No. 11-176 and 15-297 pertaining to Gas Reserves.

NW Natural 2017 Oregon Earnings Review 12 Months Ended December 31, 2017 (\$000's)

000's)			OREGON EARNING	S TEST REVIEW	I		
Line		Test Year	TYPE I	Results	TYPE II	Results		Results
No.		Results	Adjustments	after Type I	Adjustments	after Type II	AMA	after AM
	—	(a)	(b)	(c)	(f)	(g) = (c) + (f)	(d)	(e)
	Operating Revenues							
1	Sale of Gas	\$671,195	(\$18,268)	\$652,927	\$0	\$652,927		\$652,92
2	WARM Revenues	(16,870)	16,870	0	0	0		0
3	Revenue & Technical Adjustments	(6,188)	0	(6,188)	0	(6,188)		(6,188)
4	Decoupling Adjustments	8,638	(8,638)	0	0	0		0
5	Transportation	17,987	0	17,987	0	17,987		17,987
6	Miscellaneous Revenues	3,609	0	3,609	0	3,609	2,442	6,051
7	Total Operating Revenues	678,371	(10,035)	668,336	0	668,336	2,442	670,778
	Operating Revenue Deductions							
8	Gas Purchased	295,366	(8,085)	287,282	0	287,282		287,282
9	Uncollectible Accrual for Gas Sales	771	(19)	752	0	752		752
10	Other Operating & Maintenance Expenses	146,326	(4,035)	142,291	0	142,291		142,291
11	Total Operating & Maintenance Exp.	442,463	(12,138)	430,325	0	430,325		430,325
12	Federal Income Tax	30,467	1,188	31,655	0	31,655	790	32,445
13	State Excise	7,231	280	7,511	0	7,511	186	7,697
14	Property Taxes	20,386	(268)	20,118	0	20,118		20,118
15	Other Taxes	24,016	(38)	23,978	0	23,978		23,978
16	Depreciation & Amortization	71,062	0	71,062	0	71,062		71,062
17	Total Operating Revenue Deductions	595,626	(10,976)	584,650	0	584,650	975	585,625
18	Net Operating Revenues	\$82,745	\$941	\$83,686	\$0	\$83,686	\$1,467	\$85,153
	Average Rate Base							
19	Utility Plant in Service	\$2,766,558	(\$1,312)	\$2,765,246	\$0	\$2,765,246		\$2,765,2
20	Accumulated Depreciation	(1,227,221)	0	(1,227,221)	0	(1,227,221)		(1,227,2
21	Net Utility Plant	1,539,337	(1,312)	1,538,025	0	1,538,025	0	1,538,02
22	Aid in Advance of Construction	(2,852)	0	(2,852)	0	(2,852)		(2,852
23	Customer Deposits	(4,446)	0	(4,446)	0	(4,446)		(4,446
24	Materials & Supplies	61,966	0	61,966	0	61,966		61,966
25	Leasehold Improvements	336	0	336	0	336		336
26	Accumulated Deferred Income Taxes	(431,266)	0	(431,266)	0	(431,266)		(431,26
27	Total Rate Base	\$1,163,075	(\$1,312)	\$1,161,763	\$0	\$1,161,763	\$0	\$1,161,7
20	Data of Daturn	7.110%		7.200%		7.200%		7 2200
28	Rate of Return	1.11070		1.200%	=	1.200%		7.330%
29	Return on Common Equity	8.817%		8.998%	=	8.998%		9.259%
		-						



Rates & Regulatory Affairs

ANNUAL EARNINGS REVIEW For the Twelve Months Ended December 31, 2017

Description of TYPE I Adjustments

This report was developed in a manner consistent with the earnings review directives adopted in UM 903. The determination of the various adjustments included in this report reflect those typical and routinely developed adjustments as were also adopted in the Company's 2011 general rate filing (UG 221), and continue to be appropriate.

Weather Normalization and Gas Costs [Column 2(a)]:

This adjustment approximates the volumetric effects of weather on sales and gas costs. Core market volumes have been weather normalized; however, no industrial volumes have been adjusted. The adjustment also reflects the removal of the effects of the WARM mechanism pursuant to Order No. 03-507.

Miscellaneous Revenue Adjustment [Column 2(b)]:

This adjustment reflects the normalization of other tariffed utility fees and revenues to a historical three-year average. The adjustment also reflects the removal of the effect of the Decoupling mechanism pursuant to Order No. 03-507 and the removal of the effect of deferrals related to SB408.

<u>Commission-Required Advertising Disallowance</u> [Column 2(c)]:

This adjustment reduces the Company's recorded expenses for advertising consistent with the methodology stipulated to in UG 221.

Membership and Dues Adjustment [Column 2(d)]:

Removes the promotional portion of industry associated expenses, consistent with the methodology adopted in the Company's 1998 general rate case (UG 132). The adjustment also reflects the removal of certain costs charged to operational and maintenance expense related to promotional and other activities.

Normalization of Property Tax Expense [Column 2(e)]:

Removes the expense accruals for the year and reflects the actual cash payments made during the test period.

Uncollectible Accounts [Column 2(f)]:

This adjustment normalizes the test year accrual for Uncollectible expense to a three-year average of "actual net bad debt write-offs."

<u>Capital Stock Expense</u> [Column 2(g)]:

The three-year average approach adopted in this adjustment is consistent with both company experience and Commission policy adopted in the Company's 1998 general rate case.

Performance-Based Compensation [Column 2(h)]:

This adjustment depicts the disallowance of performance-based compensation as stipulated to in the Company's 2011 general rate case (UG 221 methodology).

Description of TYPE II Adjustments:

The Company has no Type II adjustments for 2017.

NW Natural Test year Normalizing Adjustments: TYPE I ADJUSTMENTS 2017 Oregon Earnings Review

(\$00 Line <u>No.</u>		Column A from Page 1	Weather Normalization & Gas Costs Adjustment (2a)	Miscellaneous Revenue Adjustment (2b)	Advertising & Promotional Adjustment (2c)	Memberships and Dues Adjustment (2d)	Property Taxes Adjustment (2e)	Uncollectible Accounts Adjustment (2f)	Stock Issuance Adjustment (2g)	Bonus Adjustment (2h)	Rate Case Expense Adjustment (2i)	Total Type I Adjustments	Column C from Page 1
1	<u>Operating Revenues</u> Sale of Gas	\$671,195	(\$18,268)		(20)	(20)	(20)	(21)	(29)	(21)	(21)	(\$18,268)	\$652,927
2	WARM Revenue	(16,870)	11,706	5,164								16,870	
3 4	Revenue & Technical Adjustments	(6,188)		0								0	(6,188)
4 5	Decoupling Adjustment Transportation	8,638 17,987		(8,638)								(8,638) 0	0 17,987
6	Miscellaneous Revenues	3,609		0								0	3,609
0		5,007		0								0	5,007
7	Total Operating Revenues	678,371	(6,561)	(3,474)	0	0	0	0	0	0	0	(10,035)	668,336
	Operating Revenue Deductions	005.044	(0.005)									(0,005)	007.000
8 9	Gas Purchased Uncollectible Accrual	295,366 771	(8,085) (22)	0	0	0	0	3		0		(8,085) (19)	287,282 752
9 10	Other Operating & Maintenance Expenses	146,326	(22)	0	(968)	(1,590)	0	3	1,227	(2,854)	150		752 142,291
10	other operating a maintenance expenses	140,320			(700)	(1,370)			1,227	(2,034)	150	(4,033)	142,271
11	Total Operating & Maintenance Exp.	442,463	(8,106)	0	(968)	(1,590)	0	3	1,227	(2,854)	150	(12,138)	430,325
12	Federal Income Tax	30,467	557	(1,168)	313	514	87	(1)	0	935	(49)		31,655
13	State Excise	7,231	131	(275)	74	121	20	0	0	220	(11)		7,511
14	Property Taxes	20,386	((268)			0		(268)	20,118
15	Other Taxes	24,016	(177)	139	0	0	0	0	0	0	0	()	23,978
16	Depreciation & Amortization	71,062							0	0		0	71,062
17	Total Operating Revenue Deductions	595,626	(7,595)	(1,304)	(581)	(955)	(161)	2	1,227	(1,699)	90	(10,976)	584,650
18	Net Operating Revenues	82,745	1,034	(2,170)	581	955	161	(2)	(1,227)	1,699	(90)	941	83,686
19	Average Rate Base Utility Plant in Service	2,766,558								(1,312)		(1,312)	2,765,246
20	Accumulated Depreciation	(1,227,221)								(1,312)		(1,312)	(1,227,221)
	Materials & Supplies												
21	Net Utility Plant	1,539,337	0	0	0	0	0	0	0	(1,312)	0	(1,312)	1,538,025
22	Aid in Advance of Construction	(2,852)										0	(2,852)
23	Customer Deposits	(4,446)										0	(4,446)
24	Materials & Supplies	61,966										0	61,966
25	Leasehold Improvements	336										0	336
26	Accumulated Deferred Income Taxes	(431,266)										0	(431,266)
27	Total Rate Base	\$1,163,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1,312)	\$0	(\$1,312)	\$1,161,763
28	Interest Coordination		0	0	0	0	0	0	0	(36)	0	(36)	(36)

Northwest Natural Gas Company Test year Normalizing Adjustments: TYPE I ADJUSTMENTS 2017 Oregon Earnings Review (\$000) Income Tax Calculations

ne o. Income Tax Calculations	Weather Normalization & Repricing Adjustment (2a)	Other Revenue Adjustment	Advertising Adjustment	Memberships and Dues Adjustment	Property Taxes Adjustment	Uncollectible Accounts Adjustment (2f)	Stock Issuance Adjustment	Accrued Bonus Adjustment (2h)	Rate Case Expense Adjustment	Total Adjustments
	(Za)	(2b)	(2c)	(2d)	(2e)	(21)	(2g)	(2n)		(2i)
Book Revenues	(6,561)	(3,474)	0	0	0	0	0	0	0	(10,035)
Book Expenses before Deprec. & Int.	(8,283)	139	(968)	(1,590)	(268)	3	0	(2,854)	150	(13,671)
State Tax Depreciation	0	0	0	0	0	0	0	0	0	0
Interest Expense (Income)	0	0	0	0	0	0	0	(36)	0	(36)
Book/Tax Differences (Sched. M)	0	0	0	0	0	0	0	0	0	0
State Taxable Income	1,722	(3,613)	968	1,590	268	(3)	0	2,890	(150)	3,672
State Excise Tax [1]	131	(275)	74	121	20	0	0	220	(11)	280
State Tax Credit	0	0	0	0	0	0	0	0	0	0
Net State Income Tax	131	(275)	74	121	20	0	0	220	(11)	280
0 Excess Book(Tax) Deprec.	0	0	0	0	0	0	0	0	0	0
1 Other Sched. M Differences	0	0	0	0	0	0	0	0	0	0
2 Federal Taxable Income	1,591	(3,338)	894	1,469	248	(3)	0	2,670	(139)	3,392
3 Federal Income Tax [2]	557	(1,168)	313	514	87	(1)	0	935	(49)	1,188
4 ITC	0	0	0	0	0	0	0	0	0	0
5 Current Federal Tax	557	(1,168)	313	514	87	(1)	0	935	(49)	1,188
6 Deferred Income Tax - Federal	0	0	0	0	0	0	0	0	0	0
7 Deferred Income Tax - State	0	0	0	0	0	0	0	0	0	0
8 ITC Restored (Deferred)	0	0	0	0	0	0	0	0	0	0
9 Total Federal Tax	557	(1,168)	313	514	87	(1)	0	935	(49)	1,188
0 Total State Tax	131	(275)	74	121	20	0	0	220	(11)	280

Statutory State Excise Tax Rate:
 Statutory Federal Income Tax Rate:

7.60% 35.00%

NW Natural Test year Normalizing Adjustments: TYPE II ADJUSTMENTS 2017 Oregon Earnings Review (\$000)

Line No.	9	No Adjustments No A	djustments No A	djustments No A	djustments No A	djustments No Ad	djustments No A	djustments No Ad	djustments 1	Total Type II ustments
1 2 3 4 5 6	Operating Revenues Sale of Gas WARM Revenue Revenue & Technical Adjustments Transportation Miscellaneous Revenues SB408 Deferrals									\$0 0 0 0 0 0
7	Total Operating Revenues	0	0	0	0	0	0	0	0	0
8 9 10	Operating Revenue Deductions Gas Purchased Uncollectible Accrual Other Operating & Maintenance Expenses	0								0 0 0
11	Total Operating & Maintenance Exp.	0	0	0	0	0	0	0	0	0
12 13 14 15 16	Federal Income Tax State Excise Property Taxes Other Taxes Depreciation & Amortization	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0 0
17	Total Operating Revenue Deductions	0	0	0	0	0	0	0	0	0
18	Net Operating Revenues	0	0	0	0	0	0	0	0	0
19 20 21	Average Rate Base Utility Plant in Service Accumulated Depreciation Materials & Supplies Net Utility Plant	0	0	0	0	0	0	0	0	0 0 0
22 23 24 25 26	Aid in Advance of Construction Materials & Supplies Water Heater Program Leasehold Improvements Accumulated Deferred Income Taxes									0 0 0 0
27	Total Rate Base	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
28	Interest Coordination	0	0	0	0	0	0	0	0	0

Northwest Natural Gas Company Test year Normalizing Adjustments: TYPE II ADJI Income Tax Calculations 2017 Oregon Earnings Review (\$000)

Line No.	Income Tax Calculations	No Adjustments No Ad	ljustments No Ac	ljustments No Ad	ljustments No A	djustments No Ad	djustments No Ac	ljustments No Ac		Total djustments
1	Book Revenues	0	0	0	0	0	0	0	0	C
2	Book Expenses before Deprec. & Int.	0	0	0	0	0	0	0	0	0
3	State Tax Depreciation	0	0	0	0	0	0	0	0	C
4	Interest Expense (Income)	0	0	0	0	0	0	0	0	(
5	Book/Tax Differences (Sched. M)	0	0	0	0	0	0	0	0	C
6	State Taxable Income	0	0	0	0	0	0	0	0	C
7	State Excise Tax [1]	0	0	0	0	0	0	0	0	C
8	State Tax Credit	0	0	0	0	0	0	0	0	C
9	Net State Income Tax	0	0	0	0	0	0	0	0	C
10	Excess Book(Tax) Deprec.	0	0	0	0	0	0	0	0	C
	Other Sched. M Differences	0	0	0	0	0	0	0	0	C
12	Federal Taxable Income	0	0	0	0	0	0	0	0	(
13	Federal Income Tax [2]	0	0	0	0	0	0	0	0	(
14	ITC	0	0	0	0	0	0	0	0	C
15	Current Federal Tax	0	0	0	0	0	0	0	0	(
16	Deferred Income Tax - Federal	0	0	0	0	0	0	0	0	C
17	Deferred Income Tax - State	0	0	0	0	0	0	0	0	C
18	ITC Restored (Deferred)	0	0	0	0	0	0	0	0	(
19	Total Federal Tax	0	0	0	0	0	0	0	0	(
20	Total State Tax	0	0	0	0	0	0	0	0	C

Statutory State Excise Tax Rate:
 Statutory Federal Income Tax Rate:

7.60% 35.00%

Rate:

NW Natural Tax Provision - Historic 2017 Oregon Earnings Review (\$000)

Line No.		State Taxes	Federal Taxes
1	Operating Revenues	\$678,371	\$678,371
2 3	Operating Revenue Deductions Property & OtherTaxes	442,463 44,402	442,463 44,402
4	Book Depreciation	71,062	71,062
5 6	Interest (Rate Base * Cost of Debt) State Tax Deduction	31,636	31,636 7,231
7	Subtotal	88,808	\$81,577
8	Permanent Differences	6,339	5,484
9	Taxable Income	95,147	\$87,061
10	Tax Rate	7.60%	35.00%
11	Tax Before Credits and Adjustments	7,231	30,471
12	Credits & Adjustments	0	(4)
13	Total Tax	\$7,231	\$30,467

NW Natural 12 Months Ended December 31, 2017 Input Assumptions Proforma Cost of Capital

-	rma Cost of Capital	13-month averages								
Line No.		% of Total	Average Cost	Average Weighted Cost						
		(a)	(b)	(c)						
1	Long Torm Dobt	50.21%	5.410%	2.72%						
1 2	Long Term Debt Preferred Stock	0.00%	0.000%	0.00%						
2	Common Stock	49.79%	9.500%	4.73%						
3	Common Stock	47.7770	7.50078	4.7370						
4	Total	100.00%	· –	7.45%						
	Revenue Sensitive Costs									
5	Gas Sales	97.69%								
6	Transportation	2.69%								
7	Other	-0.39%								
8	Subtotal	100.00%								
9	O & M - Uncollectible	0.12%								
10	Franchise Taxes at	2.42%								
11	OPUC Fee	0.28%								
		0.2070								
12	State Taxable Income	97.18%								
13	State Income Tax	7.39%								
14		00.000/								
14 15	Federal Taxable Income Federal Income Tax	89.80% 31.43%								
15		51.4570								
16	Total Income Taxes	38.82%								
17	Total Revenue Sensitive Costs	41.63%								
18	Utility Operating Income	58.37%								
19	Materials & Supplies	171.32%								
20	Interest Coordination Factor	2.72%								
21	Rate of Return	9.50%								
22	Federal tax rate	35.000%								
23	State tax rate	7.600%								
24	Franchise Fees	2.423%								
25	Uncollectible Accounts	0.12%								
26	Regulatory fees	0.275%								

NW Natural 2017 Oregon Earnings Review

2017 Oregon Earr Rate Base	nings Review															
Nuto Baso		2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	Dec 16 - Dec 17	
SYSTEM		Dec	Jan	Feb	Mar	Apr	May	June	July	August	September	October	November	December	13 month average	
STSTEW		System	System	Allocation Method												
Gross Plant		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
Intangible	Software Other	99,590,429 84,795	100,389,064 84,795	101,591,919 84,795	101,608,015 84,795	101,626,899 84,795	101,621,923 84,795	101,646,111 84,795	101,643,836 84,795	101,713,441 84,795	102,343,776 84,795	102,795,439 84,795	103,900,996 84,795	105,175,574 84,795	101,938,702 1 84,795 [Fotal Customers Direct
Production Transmission		675,198 163,396,889	675,198 163.576.895	675,198 163.866.679	675,198 163.883.241	675,198 164,394,939	675,198 164,494,359	675,198 164,523,028	675,198 164,754,098	675,198 165.023.380	675,198 165,102,348	675,198 165.326.950	675,198 165.348.542	675,198 166,587,143	675,198 [164.607.206 [
Distribution		2.078.201.641	2.083.153.338	2.086.518.571	2.094.207.113	2,100,504,089	2.103.991.742	2.110.055.412	2,115,879,982	2,126,680,760	2,132,874,662	2,140,000,757	2,148,386,972	2,161,775,493	2.113.520.164	
General		188,971,283	189,888,987	193,124,451	194,162,687	196,156,443	196,000,212	196,852,237	200,343,295	201,568,288	201,710,779	198,212,122	201,757,405	203,449,576		B-Factor & Direct
Storage and stora CNG and LNG	age transmission	293,475,195 3,790,768	293,497,583 3,790,768	293,770,417 3,790,768	293,777,783 3,790,768	301,051,419 3,790,768	301,250,486 3,790,768	309,065,442 3,790,768	312,313,607 3,790,768	312,605,292 3,790,768	312,776,312 3,790,768	316,309,651 3,790,768	316,695,313 3,790,768	314,220,159 3,790,768	305,580,082 F 3,790,768 3	irm Delivered Volumes 3-Factor
Gas Reserves		187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465 E	Direct
Total Gross Plar	nt	3,015,722,664	3,022,593,092	3,030,959,263	3,039,726,065	3,055,821,014	3,059,445,948	3,074,229,457	3,087,022,044	3,099,678,387	3,106,895,103	3,114,732,147	3,128,176,455	3,143,295,171	3,074,898,991	
Accumulated Dep	reciation															
Intangible Production Transmission Distribution General		(60,448,256) (691,036) (31,497,222) (958,244,108) (59,083,510)	(60,686,739) (691,036) (31,906,124) (961,751,548) (59,800,130)	(60,928,816) (691,036) (32,316,885) (965,529,153) (59,846,682)	(61,173,082) (691,036) (32,726,776) (968,562,909) (60,642,706)	(61,417,411) (691,036) (33,137,744) (972,136,684) (61,408,738)	(61,661,765) (691,036) (33,549,085) (975,600,817) (61,835,353)	(61,906,153) (691,036) (33,961,012) (979,317,630) (62,634,131)	(62,150,581) (691,036) (34,372,831) (982,994,616) (63,510,202)	(62,395,130) (691,036) (34,785,279) (986,632,490) (64,404,014)	(62,524,338) (691,036) (35,198,591) (990,378,350) (64,966,112)	(62,759,202) (691,036) (35,611,864) (994,028,245) (61,732,421)	(62,996,864) (691,036) (36,025,882) (997,877,669) (62,598,195)	(63,238,775) (691,036) (36,441,032) (1,001,460,546) (63,488,973)	(691,036) [(33,963,433) [(979,555,203) [Direct
Storage and stora CNG and LNG	age transmission	(130,835,036) (2,100,004)	(131,439,061) (2,102,648)	(132,044,676) (2,105,293)	(132,649,416) (2,107,937)	(133,263,749) (2,110,582)	(133,887,098) (2,113,226)	(134,518,398) (2,115,871)	(135,158,395) (2,118,515)	(135,800,647) (2,121,159)	(136,434,080) (2,123,804)	(137,060,613) (2,126,448)	(137,688,204) (2,129,093)	(135,042,844) (2,131,737)		irm Delivered Volumes 8-Factor
Gas Reserves		(71,426,542)	(72,880,456)	(74,146,530)	(75,528,661)	(76,828,825)	(78,169,645)	(79,444,202)	(80,779,012)	(82,094,166)	(83,442,012)	(84,831,974)	(86,318,096)	(87,779,706)	(79,505,558) [Direct
Total Accumula	ted Depreciation	(1,314,325,713)	(1,321,257,742)	(1,327,609,070)	(1,334,082,524)	(1,340,994,768)	(1,347,508,026)	(1,354,588,433)	(1,361,775,188)	(1,368,923,922)	(1,375,758,322)	(1,378,841,803)	(1,386,325,037)	(1,390,274,648)	(1,354,163,751)	
Storage Gas Customer Advanc Customer Deposi Materials and Sup Appliances Leasehold Improv	ts oplies	59,676,519 (3,740,828) (4,959,453) 11,026,710 (924,116) 500,783	46,210,521 (3,280,653) (5,126,524) 10,832,755 (796,011) 482,395	44,971,711 (3,447,908) (5,097,082) 10,850,090 (863,865) 461,741	51,492,511 (3,496,037) (5,066,193) 10,786,422 (772,595) 441,117	52,378,105 (3,566,303) (4,998,851) 11,135,148 (817,771) 420,486	60,211,800 (3,443,749) (5,039,343) 11,238,709 (767,005) 399,865	62,242,529 (3,466,542) (4,975,140) 11,165,970 (774,149) 377,644	63,267,469 (3,439,074) (4,835,802) 11,156,196 (713,342) 355,433	64,526,400 (3,541,636) (4,886,092) 10,907,576 (806,381) 332,912	65,917,459 (3,431,840) (4,923,576) 10,730,541 (812,237) 311,030	67,407,944 (3,458,338) (4,963,325) 10,894,823 (849,708) 289,990	67,730,082 (3,244,182) (5,012,235) 11,206,873 (895,855) 273,289	57,654,525 (3,296,312) (5,087,361) 10,941,971 (863,669) 279,959	(3,444,569) [(4,995,631)] 10,990,787 ((813,568) [fotal Customers Gross Distribution Plant %
Total Rate Base E	xcluding ADIT	1,762,976,566	1,749,657,833	1,750,224,881	1,759,028,766	1,769,377,060	1,774,538,199	1,784,211,336	1,791,037,736	1,797,287,244	1,798,928,157	1,805,211,730	1,811,909,390	1,812,649,635	1,781,602,119	

NW Natural 2017 Oregon Earnings Review

Rate Base														
	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	Dec 16 - Dec 17
OREGON	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	Dec 16 - Dec 17
	Dec	Jan	Feb	Mar	Apr	May	June	July	August	September	October	November	December	13 month average
Gross Plant	OREGON													
Intangible Software	88,774,909	89,486,812	90,559,037	90,573,385	90,590,217	90,585,782	90,607,343	90,605,315	90,667,361	91,229,242	91,631,854	92,617,348	93,753,506	90,868,159 Total Customers
Other	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348	84,348 Direct
Production	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198	675,198 Direct
Transmission	162,342,094	162,518,136	162,800,391	162,811,932	163,321,896	163,418,054	163,438,760	163,663,395	163,917,673	163,987,674	164,212,277	164,233,868	165,472,470	163,519,278 Direct
Distribution	1,829,990,097	1,834,514,224	1,837,315,510	1,844,200,902	1,848,712,908	1,851,976,130	1,857,267,465	1,862,290,960	1,867,061,511	1,872,543,945	1,878,221,890	1,883,873,494	1,894,090,110	1,858,334,920 Direct
General	174,551,906	175,376,785	178,288,967	179,227,276	181,019,491	180,881,776	181,647,623	184,785,188	185,891,778	186,019,988	182,876,080	186,063,030	187,604,643	181,929,688 3-Factor & Direct
Storage and storage transmission	269,224,955	269,245,258	269,492,691	269,499,371	276,095,832	276,276,366	283,363,750	286,309,510	286,574,039	286,729,137	289,933,523	290,283,280	288,038,562	280,202,876 Firm Delivered Volumes
CNG and LNG	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764	3,406,764 3-Factor
Gas Reserves	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465	187,536,465 Direct
Total Gross Plant	2,716,586,735	2,722,843,989	2,730,159,370	2,738,015,640	2,751,443,119	2,754,840,882	2,768,027,716	2,779,357,143	2,785,815,136	2,792,212,761	2,798,578,399	2,808,773,794	2,820,662,065	2,766,557,696
Accumulated Depreciation														
Intangible	(53.883.576)	(54,096,159)	(54,311,947)	(54,529,685)	(54.747.480)	(54,965,297)	(55,183,145)	(55.401.028)	(55,619,019)	(55,734,195)	(55,943,553)	(56,155,404)	(56,371,044)	(55.151.185) Total Customers
Production	(691.036)	(691.036)	(691,036)	(691,036)	(691,036)	(691,036)	(691.036)	(691.036)	(691,036)	(691,036)	(691,036)	(691.036)	(691.036)	(691,036) Direct
Transmission	(31,371,468)	(31,778,566)	(32,187,511)	(32,595,576)	(33,004,712)	(33,414,218)	(33,824,299)	(34,234,260)	(34,644,832)	(35,056,248)	(35,467,616)	(35,879,730)	(36,292,976)	(33,826,649) Direct
Distribution	(856,567,367)	(859,765,091)	(863,008,454)	(865,580,292)	(868,701,320)	(871,703,696)	(874,914,705)	(878,074,919)	(881,199,246)	(884,423,308)	(887,653,884)	(891,009,404)	(894,057,390)	(875,112,225) Direct
General	(53,804,565)	(54,455,703)	(54,504,654)	(55,227,164)	(55,922,724)	(56,313,254)	(57,038,249)	(57,832,706)	(58,643,113)	(59,155,413)	(56,256,437)	(57,041,652)	(57,849,356)	(56,518,169) 3-Factor
Storage and storage transmission	(121,231,070)	(121,786,281)	(122,342,950)	(122,898,810)	(123,463,375)	(124,036,112)	(124,616,064)	(125,203,899)	(125,793,778)	(126,375,665)	(126,951,288)	(127,527,876)	(125,136,221)	(124,514,979) Firm Delivered Volumes
CNG and LNG	(1,887,273)	(1,889,650)	(1,892,027)	(1,894,403)	(1,896,780)	(1,899,156)	(1,901,533)	(1,903,909)	(1,906,286)	(1,908,663)	(1,911,039)	(1,913,416)	(1,915,792)	(1,901,533) 3-Factor
Gas Reserves	(71,426,542)	(72,880,456)	(74,146,530)	(75,528,661)	(76,828,825)	(78,169,645)	(79,444,202)	(80,779,012)	(82,094,166)	(83,442,012)	(84,831,974)	(86,318,096)	(87,779,706)	(79,505,558) Direct
Total Accumulated Depreciation	(1,190,862,896)	(1,197,342,941)	(1,203,085,107)	(1,208,945,628)	(1,215,256,252)	(1,221,192,415)	(1,227,613,233)	(1,234,120,769)	(1,240,591,476)	(1,246,786,539)	(1,249,706,828)	(1,256,536,614)	(1,260,093,520)	(1,227,221,334)
Storage Gas	54,120,635	41,769,690	40,649,930	46,544,080	47,344,569	54,425,446	56,261,022	57,187,466	58,325,413	59,582,791	60,930,041	61,221,221	52,113,925	53,113,246 Firm Delivered Volumes
Customer Advances	(3,236,500)	(2,771,393)	(2,927,383)	(2,964,217)	(2,999,874)	(2,853,284)	(2,859,333)	(2,820,069)	(2,896,136)	(2,810,504)	(2,804,865)	(2,586,467)	(2,627,476)	(2,852,126) Direct
Customer Deposits	(4,420,856)	(4,562,094)	(4,535,893)	(4,508,405)	(4,448,478)	(4,484,511)	(4,427,377)	(4,303,380)	(4,348,133)	(4,381,490)	(4,416,863)	(4,460,388)	(4,527,243)	(4,445,922) Total Customers
Materials and Supplies	9,746,509	9,525,242	9,540,484	9,484,501	9,791,136	9,882,196	9,818,237	9,809,643	9,591,031	9,435,364	9,579,818	9,854,203	9,621,275	9,666,312 Gross Distribution Plant %
Appliances	(924,116)	(796,011)	(863,865)	(772,595)	(817,771)	(767,005)	(774,149)	(713,342)	(806,381)	(812,237)	(849,708)	(895,855)	(863,669)	(813,568) Direct
Leasehold Improvements	450,054	428,945	410,580	392,241	373,896	355,560	335,801	316,051	296,025	276,568	257,859	243,008	248,939	336,336 Direct & 3-Factor
Total Rate Base Excluding ADIT	1,581,459,565	1,569,095,427	1,569,348,116	1,577,245,618	1,585,430,345	1,590,206,869	1,598,768,684	1,604,712,742	1,605,385,480	1,606,716,714	1,611,567,853	1,615,612,903	1,614,534,296	1,594,340,640

NW Natural 2017 Oregon Earnings Review Rate Base

Rate Base															
WASHINGTON		2016 2016	2017 2017	2017 2017	2017 2017	2017 2017	2017 2017	Dec 16 - Dec 17 Dec 16 - Dec 17							
		Dec	Jan	Feb	Mar	Apr	May	June	July	August	September	October	November	December	13 month average
Gross Plant		WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON	WASHINGTON								
Intangible	Software Other	10,815,521 447	10,902,252 447	11,032,882 447	11,034,630 447	11,036,681 447	11,036,141 447	11,038,768 447	11,038,521 447	11,046,080 447	11,114,534 447	11,163,585 447	11,283,648 447	11,422,067 447	11,070,543 447
Production Transmission		1.054.795	1.058.759	1.066.287	1.071.309	1.073.043	1.076.305	1.084.268	1.090.703	1.105.707	1,114,674	1.114.674	1.114.674	1,114.674	1.087.928
Distribution		248,211,544	248,639,114	249,203,061	250,006,211	251,791,180	252,015,612	252,787,947	253,589,022	259,619,248	260,330,717	261,778,867	264,513,478	267,685,383	255,185,243
General		14,419,376	14,512,201	14,835,484	14,935,411	15,136,952	15,118,436	15,204,614	15,558,107	15,676,511	15,690,791	15,336,042	15,694,375	15,844,933	15,235,923
Storage and storag	ge transmission	24,250,241 384,005	24,252,325 384,005	24,277,726 384,005	24,278,412 384,005	24,955,587 384,005	24,974,120 384,005	25,701,693 384,005	26,004,097 384,005	26,031,253 384,005	26,047,175 384,005	26,376,129 384,005	26,412,034 384,005	26,181,597 384,005	25,377,206 384,005
Total Gross Plan	t	299,135,928	299,749,104	300,799,892	301,710,425	304,377,895	304,605,066	306,201,741	307,664,901	313,863,251	314,682,342	316,153,748	319,402,661	322,633,106	308,341,295
Accumulated Depr	reciation														
Intangible Production		(6,564,681) 0	(6,590,580) 0	(6,616,869) 0	(6,643,397) 0	(6,669,931) 0	(6,696,468) 0	(6,723,008)	(6,749,553) 0	(6,776,111) 0	(6,790,143) 0	(6,815,649) 0	(6,841,459) 0	(6,867,731) 0	(6,719,115) 0
Transmission		(125,753)	(127,559)	(129,374)	(131,200)	(133,031)	(134,867)	(136,713)	(138,571)	(140,447)	(142,343)	(144,247)	(146,152)	(148,056)	(136,784)
Distribution		(101,676,710)	(101,986,426)	(102,520,668)	(102,982,586)	(103,435,333)	(103,897,089)	(104,402,925)	(104,919,697)	(105,433,244)	(105,955,041)	(106,374,361)	(106,868,265)	(107,403,156)	(104,442,964)
General		(5,278,945)	(5,344,427)	(5,342,028)	(5,415,542)	(5,486,013)	(5,522,099)	(5,595,883)	(5,677,496)	(5,760,901)	(5,810,699)	(5,475,983)	(5,556,542)	(5,639,617)	(5,537,241)
Storage and storage	ge transmission	(9,603,966) (212,730)	(9,652,780) (212,998)	(9,701,726) (213,266)	(9,750,606) (213,534)	(9,800,374) (213,802)	(9,850,987) (214,070)	(9,902,334) (214,338)	(9,954,497) (214,606)	(10,006,869) (214,873)	(10,058,416) (215,141)	(10,109,325) (215,409)	(10,160,327) (215,677)	(9,906,623) (215,945)	
		(212,730)	(212,770)	(213,200)	(213,334)	(213,002)	(214,070)	(214,330)	(214,000)	(214,073)	(213,141)	(213,409)	(213,077)	(213,743)	(214,330)
Total Accumulate	ed Depreciation	(123,462,785)	(123,914,770)	(124,523,931)	(125,136,865)	(125,738,484)	(126,315,580)	(126,975,200)	(127,654,419)	(128,332,446)	(128,971,784)	(129,134,975)	(129,788,423)	(130,181,128)	(126,942,403)
Storage Gas		5,555,884	4,440,831	4,321,781	4,948,431	5,033,536	5,786,354	5,981,507	6,080,003	6,200,987	6,334,668	6,477,903	6,508,861	5,540,600	5,638,592
Customer Advance		(504,328)	(509,260)	(520,525)	(531,820)	(566,429)	(590,465)	(607,209)	(619,005)	(645,500)	(621,337)	(653,473)	(657,716)	(668,837)	
Customer Deposits		(538,597)	(564,430)	(561,189)	(557,788)	(550,374)	(554,832)	(547,763)	(532,422)	(537,959)	(542,086)	(546,462)	(551,847)	(560,118)	
Materials and Sup Appliances	piles	1,280,201	1,307,513 0	1,309,606	1,301,921 0	1,344,012 0	1,356,513 0	1,347,733	1,346,553 0	1,316,545 0	1,295,177 0	1,315,005	1,352,670 0	1,320,696	1,324,475
Leasehold Improv	rements	68,950	53,449	51,161	48,876	46,590	44,305	41,843	39,382	36,887	34,462	32,131	30,280	31,019	42,446
Total Rate Base Ex	cluding ADIT	181,535,254	180,562,437	180,876,797	181,783,180	183,946,747	184,331,361	185,442,652	186,324,994	191,901,764	192,211,443	193,643,877	196,296,487	198,115,339	187,262,253

OR WA System 13 MONTH AVERAGES: 2,766,557,696 308,341,295 3,074,898,9 Average Gross Plant 2,766,557,696 308,341,295 3,074,898,9 Gross Plant Average Factor 89.97% 10.03% 4
Average Gross Plant 2,766,557,696 308,341,295 3,074,898,5 Gross Plant Average Factor 89,97% 10.03%
Gross Plant Average Factor 89.97% 10.03%
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Autore Accurrentiated Dennes (1, 207, 201, 204) (127, 042, 402) (1, 254, 1/2)
Average Accumulated Deprec (1,227,221,334) (126,942,403) (1,354,163,7
Accumulated Deprec Average Factor 90.63% 9.37%
Average Leasehold Improvements 336,336 42,446 378,7
Leasehold Improvement Average Fact 88.79% 11.21%
Average Customer Advances (2,852,126) (592,443) (3,444,5
Customer Advance Average Factor 82.80% 17.20%
82.8007%
Growth in Gross Plant 104,075,330 23,497,178 127,572,5
Gross Plant Growth Factor 81.58% 18.42%
Average Materials & Supplies 61,965,990 6,963,067 68,929,0
Materials & Supplies Average Factor89.90%10.10%
Average Distribution Plant 1,858,334,920 255,185,243 2,113,520,1
Distribution Plant Average Factor 87.93% 12.07%
Average Total Rate Base 1,594,340,640 187,262,253 1,781,602,6
Rate Base Average Factor89.49%10.51%

NW Natural 2017 Oregon Earnings Review 12 Months Ended December 31, 2017

Deferred Income Taxes

-	Federal	State	SYS Total	Washington Allocation	Oregon Allocation
Accumulated Deferred Income Tax - Depreciation	(346,009,616)	(71,286,235)	(417,295,851)	(34,758,933)	(382,536,91
Accumulated Deferred Income Tax - Gas Reserves	(21,470,046)	(6,648,818)	(28,118,864)	0	(28,118,86
Accumulated Deferred Income Tax - Other	(10,387,882)	(483,731)	(10,871,613)	(989,209)	(9,882,40
2015 Balances	(377,867,544)	(78,418,784)	(456,286,328)	(35,748,142)	(420,538,18
2017 December Balances:					
-	Federal	State	SYS Total	Washington Allocation	Oregon Allocation
Accumulated Deferred Income Tax - Depreciation	(356,970,635)	(73,842,204)	(430,812,839)	(35,869,804)	(394,943,03
Accumulated Deferred Income Tax - Gas Reserves	(28,042,242)	(5,874,791)	(33,917,033)	0	(33,917,03
Accumulated Deferred Income Tax - Other	(13,102,128)	(1,301,866)	(14,403,994)	(1,270,364)	(13,133,63
2017 Balances	(398,115,005)	(81,018,861)	(479,133,866)	(37,140,168)	(441,993,69
Simple Average December Balances (use for Rate				(36,444,155)	(431,265,94

NW Natural State Allocation Factors As of December 31, 2017

Allocation Factors - Summary	Oregon	Washington
Customers-all	88.990%	11.010%
Customers-Residential	88.880%	11.120%
Customers-Commercial	89.970%	10.030%
Customers-Industrial	92.010%	7.990%
Customers-The Dalles	74.830%	25.170%
3-factor	88.920%	11.080%
firm volumes	90.390%	9.610%
sales volumes	90.140%	9.860%
sendout volumes	91.710%	8.290%
sales/sendout volumes	90.930%	9.070%
Customers Portland/Vancouver	84.910%	15.090%
Customers Portland/Vancouver 80%	87.930%	12.070%
Customers Portland/Vancouver Commercial	85.170%	14.830%
Payroll	89.502%	10.498%
Admin Transfer	88.583%	11.417%
Employee Cost	89.530%	10.470%
Regulatory	70.000%	30.000%
Telemetering	91.300%	8.700%
Direct-Wa	0.000%	100.000%
Direct-Or	100.000%	0.000%
Gross plant direct assign	88.670%	11.330%
Transmission	98.830%	1.170%
Depreciation	89.120%	10.880%
Rate Base	89.489%	10.511%

NW Natural State Allocation Factors As of December 31, 2017

	System	Oregon	Washington
Customers			
Total Customers			
December 2017	737,873	656,031	81,842
December 2016	725,146	645,883	79,263
Average	731,510	650,957	80,553
% of System		88.99%	11.01%
Residential Customers			
December 2017	668,803	593,998	74,805
December 2016	656,855	584,289	72,566
Average	662,829	589,144	73,686
% of System		88.88%	11.12%
Commercial Customers			
December 2017	67,881	60,944	6,937
December 2016	67,278	60,657	6,621
Average	67,580	60,801	6,779
% of System		89.97%	10.03%
Industrial Customers			
December 2017	1,189	1,089	100
December 2016	1,013	937	76
Average	1,101	1,013	88
% of System		92.01%	7.99%
The Dalles			
December 2017	8,119	6,079	2,040
December 2016	7,930	5,930	2,000
Average	8,025	6,005	2,020
% of System		74.83%	25.17%
Portland / Vancouver			
December 2017	524,992	445,190	79,802
December 2016	516,011	438,748	77,263
Average	520,502	441,969	78,533
% of System		84.91%	15.09%
Portland / Vancouver Commercial			
December 2017	44,470	37,746	6,724
December 2016	44,041	37,635	6,406
Average	44,256	37,691	6,565
% of System		85.17%	14.83%

NW Natural State Allocation Factors

Volumes - 12 Months Ended 12/31/17

Firm Delivered (exclude Unbilled)	944,407,495	853,626,090	90,781,405
% of System		90.39%	9.61%
Sales Volumes (exclude Unbilled)	831,773,110	749,800,924	81,972,186
% of System		90.14%	9.86%
Sendout Volumes	1,240,944,848	1,138,047,492	102,897,356
% of System		91.71%	8.29%
3-factor formula (simple average) Gross Plant Directly Assigned Number of Employees Directly Assigned Number of Customers	_	88.67% 89.10% 88.99%	11.33% 10.90% 11.01%
Average		88.92%	11.08%

Derivation of factor for 3-factor - Gross Plant Directly Assigned

December 31, 2017	System	Oregon	Washington
Intangible - Other Production	84,795 675,198	84,348 675,198	447
Transmission	166,587,143	165,472,470	1,114,674
Distribution	2,161,775,493	1,894,090,110	267,685,383
December 31, 2016	System	Oregon	Washington
Intangible - Other	84,795	84,348	447
Production	675,198	675,198	
Transmission	163,396,889	162,342,094	1,054,795
Distribution	2,078,201,641	1,829,990,097	248,211,544
Average	System	Oregon	Washington
Intangible - Other	84,795	84,348	447
Production	675,198	675,198	0
Transmission	164,992,016	163,907,282	1,084,734
Distribution	2,119,988,567	1,862,040,103	257,948,464
Gross Plant Directly Assigned % of System	2,285,740,577	2,026,706,931 88.67%	259,033,645 11.33%

2 3	Revenue 659,784,356
3	
4 Sales Revenues	
5 Unbilled Revenues	(295,540)
6	(270,010)
7	
8 Total Sales Revenues	659,488,816
9	
¹⁰ Transportation Revenues	17,987,262
11	
12 Grand Total Revenues	677,476,078
13	
15 <u>Gas Costs</u> 16	
¹⁷ Demand Charges	72,468,942
18	72,400,742
¹⁹ Commodity Charges	207,863,389
20	- ,,
21	
²² Oregon Deferral Activities	15,034,029
23	
24 Grand Total Gas Costs	295,366,360
25	
26	
27 Normalization Adjustments	
28 29 Revenue Adjustment There	Davage
29 Revenue Adjustment There 30	ms Revenue
³¹ WARM Adjustment	
32 WARM Revenues	13,731,615

32	WARM Revenues		13,731,015
33	WARM Revenues - Unbilled		(2,025,180)
34			11,706,435
35			
36	Weather Normalization Adjustment		
37	Residential	(36,306,540)	(31,885,757)
38	Commercial	17,961,916	13,617,986
39		(18,344,624)	(18,267,772)
40			
41	TOTAL NORMALIZING MARGIN ADJUSTMENT	(18,344,624)	(6,561,337)
42			
43	Gas Cost Adjustment		Cost of Gas
44			
45	WACOG equalization		0
46			
47	Weather Normalization Gas Costs		(8,084,602)
48			· · · · · · · · · · · · · · · · · · ·
49	TOTAL GAS COST ADJUSTMENT	Туре І	(8,084,602)
50			

•							
2							
3			Residential				
4			_			_	
5		Volumes	Revenues	Gas Costs	Volumes	Revenues	Gas Costs
6 7	lanuary	(23,066,367)	(20,325,852)	(10,068,238)	(7,168,975)	(5,500,683)	(3,129,186)
, 8	January February	(23,000,307) (5,863,370)	(5,166,743)	(10,008,238) (2,559,302)	605,957	464,945	264,494
9	March	(2,379,824)	(2,097,077)	(1,038,769)	1,861,805	1,428,545	812,659
10	April	(2,365,822)	(2,084,739)	(1,032,658)	2,098,810	1,610,396	916,109
11	Мау	1,235,867	1,089,034	539,444	2,751,954	2,111,547	1,201,201
12	June	(349,009)	(307,543)	(152,339)	2,575,217	1,975,938	1,124,056
13	July	468,193	412,567	204,362	2,061,549	1,581,806	899,846
14	August	2,022,514	1,782,219	882,807	2,821,125	2,164,621	1,231,393
15	September	178,423	157,225	77,880	1,777,091	1,363,544	775,682
16	October	(1,969,906)	(1,735,862)	(859,844)	1,316,969	1,010,497	574,844
17	November	815,969	698,281	335,420	4,968,349	3,699,929	2,042,339
18	December	(5,033,208)	(4,307,268)	(2,069,001)	2,292,064	1,706,900	942,199
19							
20	Total	(36,306,540)	(31,885,757)	(15,740,239)	17,961,916	13,617,986	7,655,637
21							
22							
23 24							
25							

¹ Weather Normalization

26	Total Revenue Change	(18,267,772)
27	Total Gas Cost Change	(8,084,602)

NW Natural 2017 Oregon Earnings Review Adjustments to Miscellaneous Revenues (\$000)

Line

No

No.		Actual	Normalized	Adjustment	
		(a)	(b)	(c)	
	Revenue & Technical Adjustments				
1	Intervenor Funding Amortization	(\$199.3)	(\$199.3)	\$0.0	
2	Interstate Storage Credit	11,545.2	\$11,545.2	0.0	
3	Washington Amortizations	0.0	\$0.0	0.0	
4	Oregon Amortizations	(3,889.0)	(\$3,889.0)	0.0	
5	Oregon Earnings Test Adjustment	0.0	\$0.0	0.0	
6	Decoupling Amortization	(14,595.8)	(\$14,595.8)	0.0	
7	Working Gas Deferral	0.0	\$0.0	0.0	
8	Gas Reserves Credit	0.0	\$0.0	0.0	
9	Gain on Property Sales - OR	0.0	\$0.0	0.0	
10	Gain on Property Sales - WA	0.0	\$0.0	0.0	
11	Gasco Cost of Service of Insurance Reserve	0.0	\$0.0	0.0	
12	Residual Amortization	950.8	\$950.8	0.0	
13	Subtotal =	(6,188.1)	(6,188.1)	0.0	
14	Decoupling Deferral	8,637.6	0.0	(8,637.6)	
15	WARM Deferrals	(5,163.7)	0.0	5,163.7	
	Other Miscellaneous Revenues				
16	Reconnection / Field Collection Charges	878.7	\$902.3	\$23.7	[1]
17	Returned Check Charge	104.8	97.7	(7.1)	[1]
18	Late Payment Fee	2,103.7	2,010.8	(93.0)	[1]
19	Gas Property Rental	225.7	285.1	59.4	[1]
20	Meter Rental	179.0	183.8	4.8	[1]
21	Oregon Other Revenues	78.7	85.5	6.8	[1]
22	Automated Payment Charge	38.5	44.1	5.6	[1]
23	Curtailment Unauthorized Take Charge	0.0	0.0	0.0	[1]
	Materials & Supplies				
24	Total	3,609.1	3,609.2	0.1	

Notes:

[1] Normalized to 3-year average

NW Natural 2017 Oregon Earnings Review Advertising and Promotional Adjustment

Line No. Amount (a) **Advertising Expense - Test Period** 1 Category A 2,134,287 2 Category B 701,214 3 Category C 558,979 Category E 0 4 5 **Total Advertising Expense** \$3,394,480 6 Allocation Factor (Residential Customers) 88.88% 7 Advertising Expense Allocated to Oregon \$3,017,014 **Category A Threshold** Total Oregon Customers - 2016-2017 average 650,957 8 9 UG 221 allowed \$2.19 per customer \$2.19 **Category A Allowable** 1,425,596 10 11 Total OR Allowable Expense (OR Line 2 plus lesser of OR Lines 1 and 10) 2,048,835 12 Advertising Disallowance Allocated to Oregon (\$968,179)

Worksheet 2c

NW Natural 2017 Oregon Earnings Review Dues/Memberships and Other Promotional Adjustment

Line		<u>ب</u>		rating	Non-Op	perating	
No	<u> </u>	Amount	Percent	Amount	Percent	Amount	
	_	(a)	(b)	(c)	(d)	(e)	
1	Gas Technology Institute	\$603,900	100%	\$603,900	0%	\$0	
2	AGA	412,099	75%	309,074	25%	103,025	
3	Western Energy Institute	23,572	75%	17,679	25%	5,893	
4	Other	94,998	50%	47,499	50%	47,499	
5	Total	\$1,134,569		\$978,152		\$156,417	
6	Allocation Factor (3-Factor)					88.92%	
7	7 Non-Operating Dues/Memberships Adjustment Allocated to Oregon						
8	8 Oregon Promotional and Other Expense						
9	Dues/Memberships and Other Promotional A	djustment to Or	regon			(\$1,589,887)	

NW Natural 2017 Oregon Earnings Review Property Tax Adjustment (\$000)	Worksheet 2e
Line No.	<u>Amount</u> (a)
1 Property Tax Accrual - Oregon	\$20,386
2 Property Taxes Paid - Oregon	20,118

3 Property Tax Adjustment (\$268)

NW Natural 2017 Oregon Earnings Review Uncollectible Accounts Adjustments (\$000)

Line No.		2015-2017 <u>Total</u> (a)	2017 Actual (b)	2016 Actual (c)	2015 Actual (c)
	Gas Revenues	(a)	(0)	(0)	(0)
1	Residential	\$1,273,637	\$458,763	\$400,895	\$413,979
2	Commercial	641,660	229,681	197,732	214,247
3	Industrial	68,076	22,757	21,048	24,271
4	Interruptible	71,243	22,173	19,289	29,781
5	Total	2,054,616	733,374	638,964	682,278
	Net Write-Offs				
6	Residential	2,008	723	583	702
7	Commercial	264	98	92	74
8	Industrial	154	27	124	3
9	Interruptible		-	-	-
10	Total	2,426	848	799	779
	Write-Off Percentage				
11	Residential	0.158%	0.158%	0.145%	0.170%
12	Commercial	0.041%	0.043%	0.047%	0.035%
13	Industrial	0.226%	0.117%	0.589%	0.012%
14	Interruptible	0.000%	0.000%	0.000%	0.000%
15	Weighted Total [1]	0.118%	0.116%	0.125%	0.114%
	Normalized Uncollectible				
16	Residential	\$723			
17	Commercial	95			
18	Industrial	51			
19	Interruptible	-			
20	Total	\$869			
	Materials & Supplies	00.000/			
21	Allocation Factor (Total Customers)	88.99%			
22	Oregon Normalized Amount	774			
23	Oregon Allocation of Accrued Amount	771			
24	Adjustment (Normalized less Accrued)	\$3			

[1] Weighted uncollectible rate of :

0.1180% is used on page 1, column (b).

NW Natural Company	Worksheet 2g
2017 Oregon Earnings Review	
Common Stock Issuance expense	

Line No.		Amount (a)
1	Capital Stock Expense - 2015	\$0
2	Capital Stock Expense - 2016	4,113,920
3	Capital Stock Expense - 2017	0
4	Three Year Average	\$1,371,307
5	Allocation Factor (Rate Base)	89.489%
5		07.40770
6	Allocated to Oregon	\$1,227,169

NW Natural 2017 Oregon Earnings Review Bonus Adjustment (\$000)

Line

No.	Assumptions:		
	UG 221 requirements	Disallowance	
1	Officer incentives	100%	
2	Employee merit	50%	
3	Company performance	75%	
		Employee	Company
	2016 Incentive Allocation	Merit	Performance
4	Key goals	77.9%	22.1% Apply to NBU and BU key goals.
5	NBU short-term incentives	100.0%	0.0% Apply to NBU performance bonus.

Employee merit and Company performance incentives

		Key Goals		Performance Bonus	
		<u>O&M</u>	Capital Capital	<u>O&M</u>	<u>Capital</u>
6	Officers	0	0	1,381,074	453,906
7	Non-officers exec. incentive	0	0	0	0
8	NBU	0	0	4,614,373	2,325,009
9	BU	1,015,012	609,964	0	0
10		1,015,012	609,964	5,995,447	2,778,915

UG 221 Disallowance

		<u>0&M</u>	<u>Capital</u>
	Officer incentives		
11	(includes non-officers exec. incentive)	(1,381,074)	(453,906) =100% of perf. bonus
12	NBU based on employee merit	(2,307,187)	(1,162,505) = (Key goals x 77.9% x 50%) + (Perf. bonus x 100% x 50%)
13	BU based on employee merit	(395,347)	(237,581) =(Key goals x 77.9% x 50%)
14	NBU based on company performance	0	0 =(Key goals x 22.1% x 75%)
15	BU based on company performance	(168,238)	(101,102) =(Key goals x 22.1% x 75%)
16		(4,251,846)	(1,955,093)
17	25% reduction per UG 221 stipulation	1,062,961	488,773
18	Total adjustment	(3,188,884)	(1,466,320)
	Materials & Supplies		
	Allocation factor		
19	(O&M=Payroll, Capital=Rate base)	89.50%	89.49%
20	Oregon bonus adjustment	(2,854,115)	(1,312,195)

Worksheet 2h

Worksheet 2i

NW Natural 2017 Oregon Earnings Review Rate Case Expense (\$000)

Line	
No.	

1	Rate case amortization	\$150
•		ψ150

(Per UG 221, Order No. 12-408 - \$750 over 5 years) 2