

Northwest Natural Gas Company 12 Months Ended September 30, 2018

Summary of Cost of Service Study Results

	REVENUE REQUIREMENT SUMMARY	ACCOUNT BALANCE	Schedule 1 General Sales Service	Schedule 2 Residential Sales Service	Schedule 3 Basic Firm Sales Service	Schedule 27 Residential Heating Dry Out	Schedule 41 Non-Residential Sales & Transport	Schedule 42 Lg. Vol. Non-Res. Sales and Transport
1	PLANT IN SERVICE							
2	Intangible Plant	12,189,448	84,206	9,127,167	2,188,911	162,265	291,693	335,205
3	Production Plant	9,884,853	28,278	6,997,669	2,143,184	85,852	396,228	233,642
4	Storgae Plant	8,682,698	26,156	6,131,331	1,945,640	67,160	363,963	148,448
5	Transmission Plant	19,675,586	56,146	13,528,563	4,218,180	159,558	849,518	863,621
6	Distribution Plant	272,635,197	1,501,554	197,328,085	50,530,153	2,599,184	9,155,169	11,521,051
7	General Plant	24,138,283	127,387	17,422,897	4,551,222	225,360	828,630	982,787
8	Subtotal - Plant in Service	347,206,064	1,823,727	250,535,713	65,577,290	3,299,379	11,885,200	14,084,754
9	ACCUMULATED DEPRECIATION							
10	Intangible Plant	(7,140,269)	(58,022)	(5,489,270)	(1,233,299)	(114,974)	(116,854)	(127,851)
11	Production Plant	(5,249,415)	(15,017)	(3,716,157)	(1,138,152)	(45,592)	(210,419)	(124,077)
12	Storage Plant	(3,136,766)	(9,449)	(2,215,043)	(702,894)	(24,263)	(131,487)	(53,629)
13	Transmission Plant	(5,239,361)	(14,985)	(3,700,051)	(1,134,898)	(45,250)	(211,383)	(132,793)
14	Distribution Plant	(110,420,687)	(636,020)	(80,810,606)	(20,183,861)	(1,092,019)	(3,523,078)	(4,175,103)
15	General Plant	(5,714,597)	(31,037)	(4,137,249)	(1,070,641)	(53,065)	(193,309)	(229,297)
16	Subtotal - Accumulated Depreciation	(136,901,095)	(764,530)	(100,068,376)	(25,463,744)	(1,375,163)	(4,386,531)	(4,842,750)
17	OTHER RATEBASE ITEMS	(23,826,026)	(128,462)	(17,416,354)	(4,499,089)	(228,544)	(789,105)	(764,471)
18	TOTAL RATEBASE	186,478,943	930,734	133,050,982	35,614,457	1,695,672	6,709,564	8,477,533
19	EXPENSES							
20	Production Expenses	361,399	1,031	254,170	78,039	3,109	14,663	10,387
21	Storage Expenses	321,081	970	226,201	72,037	2,472	13,668	5,734
22	Transmission Expenses	155,022	442	106,590	33,235	1,257	6,693	6,804
23	Distribution Expenses	4,986,651	35,240	3,683,346	863,496	42,436	146,088	216,046
24	Demand Accounts Expense	2,389,851	25,309	2,099,257	181,979	23,724	28,263	31,319
25	Demand Service & Information Expense	646,080	5,951	495,800	71,356	5,038	20,133	47,803
26	Sales Expense	188,260	2,048	170,462	13,603	1,773	271	102
27	Administrative and General Expense	9,085,605	78,128	7,103,896	1,240,354	81,585	209,877	371,765
28	Depreciation and Amortization Expense	9,563,551	53,404	6,961,889	1,771,671	91,321	314,077	371,190
29	Taxes Other Than Income & Rev	5,171,841	29,647	3,778,789	936,739	48,698	168,967	209,001
30	Income and Revenue Taxes	1,074,020	7,188	808,296	174,494	10,753	31,371	41,918
31	Subtoal - Expenses	33,943,362	239,358	25,688,696	5,437,002	312,165	954,071	1,312,069
32	REVENUE							
33	Rate Schedule Revenue	41,397,485	205,673	27,765,814	8,598,555	195,261	1,969,924	2,662,258
34	Special Contract Revenue	239,628	1,341	180,971	56,043	1,273	-	=
35	Other Revenue	239,204	1,188	160,437	49,684	1,128	11,383	15,383
36	TOTAL REVENUE	41,876,318	208,202	28,107,223	8,704,282	197,662	1,981,307	2,677,641
37	NET INCOME - Current Rates	7,932,956	(31,156)	2,418,527	3,267,280	(114,503)	1,027,236	1,365,572
38	RATE OF RETURN - Current Rates	4.25%	-3.35%	1.82%	9.17%	-6.75%	15.31%	16.11%

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39	REVENUE REQUIREMENT AT EQUAL RATES OF RETURN							
40	REQUIRED RATE OF RETURN	7.6290%	7.6290%	7.6290%	7.6290%	7.6290%	7.6290%	7.6290%
41	Required Operating Income	14,226,464	71,006	10,150,449	2,717,024	129,363	511,872	646,750
42	REVENUE GROSS UP							
43	Federal Income Tax	1,672,958	21,158	1,601,295	-	50,505	-	-
44	Revenue Tax	336,804	4,260	322,377	-	10,168	-	=
45	Uncollectible	8,774	111	8,398	-	265	=	=
46	Subtotal - Revenue Gross Up	2,018,535	25,528	1,932,069	=	60,938	-	=
47	TOTAL REVENUE REQUIREMENT [lines 31+41+46]	50,188,361	335,892	37,771,215	8,154,027	502,465	1,465,943	1,958,820
48	REVENUE EXCESS (DEFICIENCY) [line 36-line 47]	(8,312,043)	(127,690)	(9,663,991)	550,256	(304,803)	515,363	718,822
49	RATE SCHEDULE REVENUE AS PROPOSED							
50	Step 1							
51	System Average Increase to Margin	20.08%						
52	Multiple of System Average Increase to Class		2.25	1.03	0.90	2.50	0.90	0.85
53	Percent Increase to Class Revenue		45.18%	20.73%	18.07%	50.20%	18.07%	17.07%
54	Increase Step 1	2,555,098	92,917		1,553,824	98,014	355,980	454,363
55	Step 2							
56	Remainder allocated on Current Revenue (In 33)	27,765,814		27,765,814				
57	Increase Step 2	5,756,945		5,756,945				
58	PROPOSED RATE REVENUE INCREASE	8,312,043	92,917	5,756,945	1,553,824	98,014	355,980	454,363
59	Rate Schedule Revenue	49,709,529	298,590	33,522,760	10,152,378	293,275	2,325,904	3,116,621
60	Special Contract Revenue	239,628	1,341	180,971	56,043	1,273	-,,	-
61	Other Revenue	239,204	1,188	160,437	49,684	1,128	11,383	15,383
62	PROPOSED REVENUE	50,188,361	301,119	33,864,169	10,258,106	295,676	2,337,287	3,132,004
63	CURRENT REVENUE TO COST RATIO	0.83	0.62	0.74	1.07	0.39	1.35	1.37
64	PARITY RATIO AT CURRENT RATES	1.00	0.74	0.89	1.28	0.47	1.62	1.64
65	PROPOSED REVENUE TO COST RATIO	1.00	0.90	0.90	1.26	0.59	1.59	1.60