Mark R. Thompson

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June 11, 2018

VIA ELECTRONIC FILING

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

Re: UG 344: Errata to Exhibit NW Natural/2201, Speer/1

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or "Company"), files herewith an Errata to NW Natural/2201, Speer/1 (Exhibit 2201).

When Exhibit 2201 was updated for the Company's reply testimony, rows 10b and 10c were added to the Excel worksheet. Row 18 allocates the functionalized revenue requirement for "System Core Main Costs" based on the total costs from the above work paper on rows 10 and 13. The addition of rows 10b and 10c were not updated in the Excel workbook for row 18, and therefore, the allocation of system core main costs were not allocated correctly to each rate schedule. This errata includes an update to the mathematical function in the Excel workbook for row 18, which in turn impacts rows 25A and 26. The change is consistent with the Company's adoption of Staff's changes for the LRIC found in Mr. Compton's LRIC (Exhibit Staff/1202, Compton/Page 3 of 3).

Please address correspondence on this matter to me with copies to the following:

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Please call me if you have questions.

Sincerely,

NW NATURAL

/s/ Mark R. Thompson

Mark R. Thompson Manager, Rates & Regulatory Affairs

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NW Natural Oregon Jurisdictional Rate Case Test Year Twelve Months Ended October 31, 2019 Long-Run Incremental Cost Study Summary of Results

Line No.		CUSTOMER CLASS SERVICE TYPE RATE SCHEDULE	Residential Sales Firm 02	Commercial Sales Firm 03CSF	Industrial Sales Firm 03ISF	Commercial Sales Firm 27CSF	Commercial Sales Firm 31CSF	Commercial Transportation Firm 31CTF	Industrial Sales Firm 31ISF	Industrial Transportation Firm 31ITF	Commercial Sales Firm 32 CSF	Industrial Sales Firm 32ISF	Transportation Firm 32TF	Commercial Sales Interruptible 32CSI	Industrial Sales Interruptible 32ISI	Transportation Interruptible 32TI	Transportation 33T	Special Contracts
	STATISTICS	Totals																
1	2019 ANNUAL THERM DELIVERIES	1,073,764,878	385,050,429	166,461,516	4,874,416	1,197,618	25,390,021	3,496,586	14,010,541	363,568	39,092,810	13,823,132	92,722,465	23,733,673	27,416,484	196,967,402	-	79,164,217
2	2019 CUSTOMERS	673,269	610,273	58,752	355	1,962	740	74	217	5	433	62		58	68	85		7
3	AVERAGE ANNUAL THERM DELIVERIES PER CUSTOMER		631	2,833	13,731	610	34,311	47,251	64,565	72,714	90,284	222,954	520,913	409,201	403,184	2,317,264	-	11,309,174
3a	ESTIMATED DESIGN DAY LOAD FACTOR		27%	20%	37%	27%	34%	28%	48%	61%	33%	37%	47%	26%	21%	35%	61%	35%
3b	Average Firm Daily Deliveries	2,045,159	1,054,933	456,059	13,355	3,281	69,562	9,580	38,385	996	107,104	37,872	254,034	-	-	-	-	216,888
3с	Peak Firm Day Deliveries	7,521,024	3,867,055	2,321,162	36,017	12,028	207,093	34,285	79,790	1,628	322,952	102,298	536,716					621,093
3d	System Firm Load Factor	27%																
4	Demand Charges	\$76,015,833	\$44,619,642	\$19,289,561	\$564,846	\$138,779	\$2,942,198	\$0	\$1,623,544	\$0	\$4,530,076	\$1,601,827	\$0	\$327.287	\$378.073	\$0	\$0	\$0
5	Cost of Gas	\$198,888,064	\$109,238,807	\$47,225,131	\$1,382,872	\$339,765	\$7,203,149	\$0	\$3,974,789	\$0	\$11,090,630	\$3,921,623		\$6,733,242	\$7,778,056	\$0	\$0	\$0
6	Total Cost of Gas	\$274,903,897	\$153,858,449	\$66,514,692	\$1,947,718	\$478,544	\$10,145,347	\$0	\$5,598,333	\$0	\$15,620,706	\$5,523,450	\$0	\$7,060,529	\$8,156,129	\$0	\$0	\$0
7	Account Services (Meter Reading, Billing, etc.)	\$26,500,696	\$23,676,365	\$2,361,734	\$14,270	\$76,118	\$143,459	\$14,397	\$42,068	\$973	\$83,943	\$12,020	\$34,234	\$11,244	\$13,334	\$16,537	\$0	\$1,362
	Customer Capital Investment Costs																	
8	Meter & Regulators	\$31,271,274	\$23,199,887	\$6,259,399	\$156,723	\$78,040	\$398,513	\$39,725	\$174,291	\$3,648	\$415,271	\$85,920	\$201,874	\$83,708	\$34,530	\$139,745	\$0	\$11,508
9	Services	\$234,118,449	\$213,913,778	\$18,100,185	\$260,111	\$687,723	\$417,002	\$40,236	\$125,210	\$2,981	\$266,931	\$34,696	\$118,399	\$45,969	\$40,826	\$64,401	\$0	\$5,304
10	Main Extensions	\$315,808,952	\$218,871,639	\$90,254,775	\$545,348	\$703,662	\$1,136,782	\$113,678	\$1,209,835	\$27,876	\$665,171	\$345,667	\$992,400	\$89,099	\$379,119	\$473,899	\$0	\$39,027
10a	System Mains Replacement Rev. Req.	\$245,000,000																
10b	System Mains Annual Through-Put Allocated	\$66,621,780.65	\$25,792,005	\$11,150,166	\$326,505	\$80,221	\$1,700,711	\$234,213	\$938,474	\$24,353	\$2,618,571	\$925,921	\$6,210,870	\$1,589,763	\$1,836,451	\$13,193,556	\$0	\$0
10c	System Mains Firm Demand Allocated	\$178,378,219	\$91,716,029	\$55,051,637	\$854,236	\$285,263	\$4,911,685	\$813,157	\$1,892,393	\$38,602	\$7,659,543	\$2,426,237	\$12,729,438	\$0	\$0	\$0	\$0	\$0
11	Storage Costs	\$2,166,814	\$1,110,217	\$666,276	\$10,340	\$3,451	\$59,451	\$0	\$22,906	\$0	\$92,711	\$29,367	\$0	\$70,795	\$101,301	\$0	\$0	\$0
12	Total Customer Capital Investment Costs	\$1,073,365,488	\$574,603,554	\$181,482,438	\$2,153,264	\$1,838,360	\$8,624,144	\$1,241,010	\$4,363,110	\$97,460	\$11,718,198	\$3,847,808	\$20,252,981	\$1,879,335	\$2,392,226	\$13,871,600	\$0	\$55,839
13	Total System Reinforcement Cost	\$3,759,945	\$1,901,185	\$1,140,999	\$17,709	\$5,909	\$101,808	\$16,856	\$39,226	\$800	\$158,766	\$50,299	\$263,830	\$0	\$0	\$0	\$0	\$62,558
14	Long Run Incremental Distribution Cost	\$1,378,530,027	\$754,039,553	\$251,499,862	\$4,132,960	\$2,398,932	\$19,014,758	\$1,272,263	\$10,042,737	\$99,233	\$27,581,613	\$9,433,577	\$20,551,045	\$8,951,108	\$10,561,689	\$13,888,137	\$0	\$119,759
	Proposed Cost by Functional Classification																	
15	Cost of Gas Commodity	\$277,606,225	\$155,370,890	\$67,168,537	\$1,966,864	\$483,248	\$10,245,077	\$0	\$5,653,365	\$0	\$15,774,259	\$5,577,746	\$0	\$7,129,935	\$8,236,304	\$0	\$0	\$0
16	Account Services (Meter Reading, Billing, etc.) Costs	\$45,474,142	\$40,627,702	\$4,052,642	\$24,487	\$130,616	\$246,170	\$24,705	\$72,188	\$1,669	\$144,043	\$20,625	\$58,743	\$19,294	\$22,881	\$28,377	\$0	\$48,819
17	Meters & Services Costs	\$66,706,083	\$59,598,856	\$6,122,816	\$104,772	\$192,476	\$204,981	\$20,098	\$75,280	\$1,666	\$171,472	\$30,317		\$32,595	\$18,941	\$51,312	\$0	\$85,882
18	System Core Main Costs	\$253,127,463	\$151,670,019	\$70,659,710	\$781,841	\$482,007	\$3,520,031	\$528,120	\$1,829,258	\$41,083	\$4,977,664	\$1,680,492		\$752,727	\$993,362	\$6,127,876	\$0	\$1,654,166
19	Storage Costs	\$19,775,660	\$10,132,514	\$6,080,841	\$94,367	\$31,491	\$542,586	\$0	\$209,050	\$0	\$846,137	\$268,022	\$0	\$646,120	\$924,531	\$0	\$0	\$0
20 21	Proposed Cost LRIC Based Target Margin	\$662,689,573 \$385,083,348	\$417,399,981 \$262,029,091	\$154,084,546 \$86,916,009	\$2,972,332 \$1,005,468	\$1,319,838 \$836,590	\$14,758,845 \$4,513,768	\$572,923 \$572,923	\$7,839,140 \$2,185,775	\$44,419 \$44,419	\$21,913,575 \$6,139,316	\$7,577,201 \$1,999,455	\$9,194,470 \$9,194,470	\$8,580,671 \$1,450,736	\$10,196,020 \$1,959,716	\$6,207,565 \$6,207,565	\$0	\$1,788,868 \$1,788,868
21	LNC based raiget waigin				\$1,003,468			\$372,323	32,103,773									
	Revenue at Current Rates	\$626,662,560	\$387,770,097	\$137,975,522	\$3,740,132	\$1,038,854	\$18,521,031	\$1,113,636	\$8,813,710	\$89,844	\$24,565,050	\$7,608,655	\$7,460,021	\$9,271,906	\$10,710,650	\$6,194,584		\$1,788,868
23	Margin Revenue at Current Rates	\$349,809,051	\$232,672,334	\$71,019,860	\$1,780,460	\$556,990	\$8,316,491	\$1,113,636	\$3,187,208	\$89,844	\$8,865,834	\$2,060,888	\$7,460,021	\$2,181,744	\$2,520,290	\$6,194,584	\$0	\$1,788,868
24	Current Revenue to Proposed Cost (Includes Cost of Gas)	0.95	0.93	0.90	1.26	0.79	1.25	1.94	1.12	2.02	1.12	1.00	0.81	1.08	1.05	1.00	-	-
25	Current Margin Revenue to LRIC Based Target Margin	0.91	0.89	0.82	1.77	0.67	1.84	1.94	1.46	2.02	1.44	1.03	0.81	1.50	1.29	1.00	-	-
	25A Relative Margin to Cost at Present Rates	1.00	0.98	0.90	1.95	0.73	2.03	2.14	1.61	2.23	1.59	1.13	0.89	1.66	1.42	1.10	-	-
26	Component LRIC Target Increase by Schedule	\$37,787,833	\$29,629,884	\$16,109,024	(\$767,800)	\$280,984	(\$3,762,186)	(\$540,713)	(\$974,570)	(\$45,425)	(\$2,651,475)	(\$31,454	\$1,734,449	(\$691,235)	(\$514,630)	\$12,980	\$0	\$0
27	Target Increase as Percent of Total Present Revenue	6.03%	7.64%	11.68%	-20.53%	27.05%	-20.31%	-48.55%	-11.06%	-50.56%	-10.79%	-0.41%	23.25%	-7.46%	-4.80%	0.21%	0.00%	0.00%
	27A Target Increase as Percent of Present Margin Revenue	10.80%	12.73%	22.68%	-20.53%	50.45%	-45.24%	-48.55%	-30.58%	-50.56%	-29.91%			-31.68%	-20.42%	0.21%	0.00%	