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October 3, 2014

NWN OPUC Advice No. 14-16 / UG 278  
(UM 1496)  
SUPPLEMENT C

**VIA ELECTRONIC FILING**

Public Utility Commission of Oregon  
3930 Fairview Industrial Park Drive SE  
Post Office Box 1088  
Salem, Oregon 97308-1088

Attn: Filing Center

**Re: Replacement Filing: Revisions to Exhibit C  
Annual Purchased Gas Cost and Technical Rate Adjustments**

**UM 1496: Request for Amortization of Certain Deferred Accounts  
Relating to Gas Costs**

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or the "Company"), files herewith revised pages to Exhibit C, filed with NWN Advice No. 14-16A/UG 278 on September 15, 2014.

The attached Exhibit C pages are updates that should have been included in NW Natural's Supplemental Filing A but were inadvertently overlooked. These pages will replace the pages filed in Exhibit C, NWN Advice No. 14-16A.

Please address correspondence on this matter to me at ork@nwnatural.com, with copies to the following:

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Sincerely,  
NW NATURAL

/s/ Onita R. King

Onita R. King  
Rates & Regulatory Affairs

attachments

EXHIBIT C

BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON

NW NATURAL  
SUPPORTING MATERIALS

Purchased Gas Costs

NWN OPUC Advice No. 14-16A / UG 278  
Revised October 3, 2014

**NW Natural**  
**PGA Portfolio Guidelines**  
**OPUC Order No. 11-196, Docket UM 1286**

- IV General Information and Forecasting
- 1 General Information
- c) All forecasts of demand, weather, etc. upon which the gas supply portfolio for the current PGA filing and
- 8 Attestation of verification of consistency

In accordance with the PGA Filing Guidelines at Section IV(1)(c), the Company acknowledges that all forecasts of demand, weather, etc., upon which the gas supply portfolio for this PGA filing is based on the same methodology and data sources that are consistent with the Company's most recently acknowledged IRP.

**NW Natural**  
**PGA Portfolio Guidelines**  
**OPUC Order No. 11-196, Docket UM 1286**

[Index!A1](#)

IV	General Information and Forecasting
2	Workpapers
b)	Gas Supply Portfolio and Related Transportation
7	Forecasted annual and peak demand used in the current PGA portfolio, with and without programmatic and non-programmatic demand response, with explanation

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NW Natural includes *realized* demand response savings in forecasted annual and peak demand by updating use per customer coefficients prior to the annual PGA filing. The updated use per customer coefficient reflects demand measures actually taken in the previous year. Because our ability to accurately forecast annual demand savings is relatively uncertain, we do not include projected demand measures in our forecasted annual and peak demand.

	<b>2014/2015</b>
Forecast Annual Demand (therms)	753,427,686
Forecast Peak Demand (therms) - Normal	4,255,424
Forecast Peak Demand (therms) - Design	9,369,764
Forecast DSM Annual (therms)	0
Forecast DSM Peak (therms) - Design Peak	0
Forecast Annual Demand with Forecast DSM	753,427,686
Forecast Peak Demand with Forecast DSM - Normal	4,255,424
Forecast Peak Demand with Forecast DSM - Design	9,369,764

NOTE: As of this filing date, the DSM data was not available from the Energy Trust.

**NW Natural**

**UM1286 PGA Portfolio Guidelines  
 2014-2015 Oregon PGA**

V.3.c Historical (five years) and forecasted (one year ahead) sales system physical annual demand

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Gas Year	Forecasted 2014/2015	2013/2014	2012/2013	2011/2012 [1]	2010/2011 [1]	2009/2010
Annual Demand (therms)	753,427,686	746,847,556	732,272,081	759,952,952	764,740,025	713,350,202

[1] Updated for actuals

**UM1286 PGA Portfolio Guidelines  
2014-2015 Oregon PGA**

V.3.d.

Historical (five years), and forecasted (one year ahead) sales system physical demand for each of the following:

1. Annual for each customer class

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Gas Year	Forecasted 2014/2015	2013/2014	2012/2013	2011/2012	2010/2011	2009/2010
Residential (therms)	407,566,472	396,647,034	388,025,253	424,142,259	415,882,134	383,285,472
Commercial (therms)	249,104,899	245,792,366	234,253,226	257,323,299	252,122,949	234,305,765
Industrial Firm (therms)	34,513,267	33,853,619	37,619,102	36,394,872	37,248,104	37,771,560
Industrial Interruptible (therms)	62,243,048	70,554,536	64,343,014	61,458,451	59,486,838	57,987,405

Updated for actuals

**NW Natural**

**UM1286 PGA Portfolio Guidelines  
 2014-2015 Oregon PGA**

V.3.d. Historical (five years), and forecasted (one year ahead) sales system physical demand for each of the following:

2. Annual and monthly base load

Gas Year	Forecasted 2014-2015	2013/2014	2012/2013	2011/2012[1]	2010/2011 [1]	2009/2010[1]
November	21,800,314	22,397,233	22,308,001	22,343,188	22,177,486	22,368,074
December	22,550,020	23,202,872	23,064,485	23,284,414	23,034,172	23,309,822
January	22,570,715	23,196,614	23,081,208	23,283,122	23,064,136	23,367,602
February	20,406,269	20,943,260	20,859,821	21,819,517	20,779,477	20,987,986
March	22,607,178	23,202,391	23,109,951	23,298,952	23,041,150	23,184,270
April	21,900,602	22,513,500	22,379,225	22,514,758	22,275,981	22,392,041
May	22,648,205	23,254,362	23,138,668	23,251,908	22,972,378	23,123,968
June	21,932,776	22,556,453	22,399,655	22,449,749	22,181,087	22,206,833
July	22,680,778	23,314,587	23,152,520	22,784,459	23,022,789	22,939,571
August	22,703,703	23,324,427	23,162,291	23,007,978	23,030,526	22,973,358
September	21,993,084	22,537,805	22,425,676	22,273,329	22,193,140	22,241,292
October	22,749,476	23,359,078	23,196,701	23,035,735	23,025,826	22,993,292
Annual	266,543,120	273,802,581	272,278,201	273,347,109	270,798,148	272,088,110

[1] Updated for actuals

**NW Natural**

**UM1286 PGA Portfolio Guidelines  
 2014-2015 Oregon PGA**

V.3.d. Historical (five years), and forecasted (one year ahead) sales system physical demand for each of the following:

3. Annual and monthly non-base load

Gas Year	Forecasted 2014/2015	2013/2014	2012/2013	2011/2012 [1]	2010/2011 [1]	2009/2010[1]
November	64,645,473	62,248,709	61,226,239	40,491,499	33,153,463	41,313,882
December	99,438,872	95,405,022	90,481,345	86,534,833	81,321,773	83,307,972
January	92,311,790	91,382,451	86,593,507	97,758,992	97,632,484	91,849,305
February	73,910,150	72,204,387	69,575,367	78,530,912	76,125,402	61,712,656
March	60,372,096	58,522,284	56,408,082	74,169,045	79,134,329	50,195,196
April	40,504,472	38,745,792	37,886,663	54,489,168	55,063,637	47,177,713
May	18,918,958	17,039,845	15,982,505	25,616,766	37,973,515	29,743,398
June	4,127,487	4,181,989	3,799,251	13,742,491	18,528,871	18,510,754
July	29,337	707,612	393,204	4,443,994	3,792,900	4,870,382
August	-	769,863	358,541	569,565	456,282	574,125
September	2,661,692	3,220,573	1,673,213	1,867,959	1,657,358	3,269,478
October	29,964,238	28,616,445	27,584,476	27,756,549	9,101,863	8,737,232
Annual	486,884,566	473,044,975	451,962,394	505,971,773	493,941,877	441,262,092

[1] Updated for actuals



**NW Natural**  
**UM1286 PGA Portfolio Guidelines**  
**2014-2015 Oregon PGA**

V.3.d. Historical (five years), and forecasted (one year ahead) sales system physical demand for each of the following:  
 4. Annual and monthly for the geographic regions utilized by each LDC in its most recent IRP or IRP update

2014/2015	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	4,340,839	1,334,501	1,087,266	7,153,780	1,117,133	50,878,698	12,168,437	8,365,134
December	7,818,179	1,783,297	1,379,796	8,527,746	1,401,951	73,713,681	15,281,550	12,082,692
January	6,395,038	1,542,743	1,329,131	8,602,409	1,092,284	67,902,863	16,646,440	11,371,597
February	5,313,052	1,324,050	1,147,561	6,315,491	891,521	57,360,664	12,650,240	9,313,841
March	4,282,767	1,188,505	1,113,927	5,727,150	830,154	49,853,362	11,991,310	7,992,100
April	3,730,729	1,036,946	775,069	4,991,390	770,224	35,813,183	9,386,279	5,901,253
May	2,655,309	716,279	569,189	3,647,594	543,765	23,158,628	6,369,780	3,906,619
June	1,609,731	495,393	397,855	2,550,107	437,503	14,103,336	4,018,799	2,447,540
July	1,448,612	482,545	373,177	2,019,212	477,497	12,156,954	3,710,528	2,041,589
August	1,441,191	466,933	374,403	1,996,846	460,680	12,204,036	3,712,477	2,047,137
September	1,543,664	547,795	378,500	2,218,553	515,986	12,967,651	4,122,810	2,359,968
October	3,067,599	917,689	644,051	4,191,505	753,323	29,626,547	8,374,187	5,138,813
Annual	43,646,710	11,836,676	9,569,774	57,941,784	9,292,020	439,739,602	108,432,837	72,968,283

2013/2014	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	3,004,316	923,615	752,502	4,951,166	773,173	35,213,397	8,421,835	5,303,793
December	7,773,336	1,773,068	1,371,882	8,478,833	1,393,910	73,290,876	15,193,898	11,654,376
January	7,314,992	1,764,673	1,520,332	9,839,902	1,249,414	77,670,980	19,041,102	12,893,003
February	6,676,619	1,663,860	1,442,076	7,936,329	1,120,325	72,081,981	15,896,859	11,761,142
March	4,458,858	1,237,372	1,159,727	5,962,629	864,287	51,903,144	12,484,347	8,469,900
April	3,776,291	1,049,610	784,535	5,052,348	779,630	36,250,554	9,500,909	5,960,021
May	2,855,731	770,344	612,151	3,922,913	584,808	24,906,632	6,850,569	4,016,235
June	1,904,412	586,081	470,687	3,016,935	517,593	16,685,126	4,754,490	2,725,858
July	1,529,333	509,434	393,972	2,131,730	504,105	12,834,379	3,917,290	2,201,958
August	1,527,740	494,974	396,887	2,116,763	488,345	12,936,929	3,935,424	2,197,227
September	1,614,086	572,785	395,611	2,319,765	539,525	13,559,242	4,310,895	2,446,469
October	3,024,425	904,773	634,987	4,132,514	742,721	29,209,583	8,256,329	5,070,191
Annual	45,460,140	12,250,590	9,935,348	59,861,827	9,557,836	456,542,823	112,563,947	74,700,173

2012/2013	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	3,980,097	983,796	694,036	4,029,196	790,299	32,332,665	7,420,633	5,068,731
December	5,425,390	1,368,991	1,023,998	6,374,613	1,082,073	55,049,568	11,982,401	8,655,000
January	7,623,154	1,794,161	1,547,874	8,535,059	1,485,395	80,560,285	17,009,938	12,874,734
February	6,143,084	1,592,883	1,247,819	7,750,244	1,059,617	63,211,648	15,987,682	10,413,124
March	4,823,792	1,349,940	1,002,932	6,319,169	1,035,028	49,517,478	12,577,871	8,201,439
April	3,629,993	1,071,117	855,673	4,976,097	843,776	36,067,438	9,392,593	5,920,050
May	1,857,990	805,939	560,211	3,370,006	579,423	23,346,350	6,872,771	4,031,753
June	2,560,019	697,834	508,908	3,181,901	611,895	19,329,442	5,292,184	3,189,278
July	1,219,385	541,620	412,307	2,382,000	534,531	13,262,177	3,717,540	2,323,146
August	1,512,651	455,146	385,474	2,083,420	455,522	12,633,978	3,864,820	2,129,820
September	1,559,715	520,752	406,860	2,226,461	495,474	12,409,027	4,099,341	2,381,260
October	2,992,666	845,202	684,478	4,068,548	660,832	28,585,041	8,058,735	4,885,676
Annual	43,327,935	12,027,380	9,330,571	55,296,713	9,633,865	426,305,098	106,276,509	70,074,010

2011/2012	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	4,032,300	1,043,485	694,789	4,335,771	819,203	38,101,060	7,961,438	5,846,641
December	6,826,726	1,609,168	1,173,478	7,127,402	1,197,923	66,714,075	14,466,075	10,704,400
January	7,244,894	1,749,261	1,427,007	8,180,957	1,317,644	72,265,506	17,064,895	11,791,950
February	5,768,697	1,453,877	1,229,563	7,089,548	1,027,839	59,425,230	14,407,850	9,947,825
March	5,941,986	1,529,200	1,162,827	7,098,060	1,140,416	57,459,593	13,777,217	9,358,698
April	4,855,992	1,215,344	882,146	5,831,247	933,197	43,907,494	12,128,901	7,249,605
May	2,981,769	929,068	591,413	4,227,761	706,099	27,357,160	7,606,195	4,469,209
June	2,268,518	695,422	478,994	3,382,472	604,564	20,004,273	5,474,400	3,283,597
July	1,749,433	592,175	487,817	2,689,960	503,152	14,464,650	4,229,684	2,511,582
August	1,519,580	456,248	387,755	2,079,852	454,293	12,679,160	3,878,432	2,122,223
September	1,565,359	522,071	409,063	2,220,195	494,284	12,463,199	4,103,146	2,363,972
October	3,009,207	848,974	689,977	4,060,120	660,920	28,609,400	8,061,371	4,852,315
Annual	47,764,461	12,644,293	9,614,828	58,323,345	9,859,534	453,450,800	113,159,604	74,502,017

2010/2011	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	3457654	956469	690565	4157224	702,364	32,625,567	7,655,176	5,085,930
December	6206851	1555645	1192475	6621319	1,211,342	64,006,649	13,394,071	10,167,593
January	6938995	1767004	1473980	7641086	1,283,562	73,368,900	16,245,941	11,977,152
February	5524303	1441394	1101653	6325956	1,023,155	58,990,655	12,959,886	9,537,877
March	5626311	1584417	1122046	6717675	1,122,964	61,645,159	14,252,465	10,104,442
April	4421411	1248356	892877	5204951	964,103	45,612,072	11,324,134	7,671,714
May	3629256	1058840	704922	4515425	806,518	34,854,739	9,298,238	6,077,955
June	2301553	730766	486742	3396094	594,258	22,960,838	6,398,509	3,841,198
July	1770424	592333	399425	2323979	502,209	14,417,184	4,261,741	2,548,394
August	1579277	511889	371098	2195527	497,320	12,454,469	3,714,731	2,162,497
September	1593461	470109	376434	2211756	544,272	12,471,427	3,973,400	2,209,639
October	2257067	615666	474390	2599456	527,724	17,891,415	4,849,366	2,912,605
Annual	45,306,563	12,532,888	9,286,607	53,910,448	9,779,791	451,299,074	108,327,658	74,296,996

2009/2010	Albany	Astoria	The Dalles (OR Eugene)	Newport/LC	Portland	Salem	Vancouver	
November	3958516	968524	703552	4370947	736,861	38,814,912	8,125,283	6,003,361
December	6772815	1604810	1234519	7379170	1,203,057	64,354,442	13,715,517	10,353,464
January	6070896	1544701	1498610	7575728	1,108,916	69,550,378	16,105,104	11,762,574
February	4831240	1204871	1047212	5743681	921299	49,129,022	11,741,477	8,081,840
March	4587575	1187139	883460	5485529	860701	42,640,221	10,757,366	6,977,475
April	4436188	1110783	773939	5525032	867080	39,833,508	10,655,298	6,367,926
May	3162615	958600	585146	4540385	679126	30,025,275	7,968,938	4,947,281
June	2321219	765367	454378	3359201	635811	23,278,201	6,007,833	3,895,587
July	1601212	555689	354528	2446357	522058	15,162,414	4,387,896	2,779,799
August	1452341	541319	326196	2200458	494599	12,518,415	3,742,908	2,271,247
September	1646010	532130	351180	2324260	479149	13,537,420	4,170,741	2,469,880
October	2066157	570602	408501	2692505	563,386	17,404,864	4,996,634	3,027,875
Annual	42,906,784	11,544,535	8,621,221	53,643,253	9,072,043	416,249,072	102,374,995	68,938,299