ONITA R. KING

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July 29, 2016

NWN OPUC Advice No. 16-15 / UG 311 (UM 1420)

VIA ELECTRONIC FILING

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

RE: REQUEST FOR AMORTIZATION OF CERTAIN NON-GAS COST

DEFERRED ACCOUNTS RELATING TO:

UM 1420: Industrial Demand Side Management

Northwest Natural Gas Company, dba NW Natural ("NW Natural" or the "Company"), files herewith revisions to its Tariff, P.U.C. Or. 25¹ ("the Tariff"), stated to become effective with service on and after November 1, 2016, as follows:

Fourth Revision of Sheet 188-1, Schedule 188, "Industrial Demand Side Management (DSM) Program Cost Recovery."

This filing is made in accordance with OAR 860-022-0025.

The purpose of this filing is to request amortization of amounts deferred under Docket UM 1420 Industrial Demand Side Management Programs implemented in accordance with ORS 757.262 for inclusion in rates effective November 1, 2016. The Company last adjusted rates for this purpose effective November 1, 2015.

The net effect of removing the temporary adjustment applied to rates effective November 1, 2015 and the application of the new temporary adjustment is to increase the Company's annual revenues by \$349,947, or 0.05%.

The monthly bill of the average industrial customer served under Rate Schedule 3 using 1,008 therms per month is an increase of about \$2.60. The monthly increase for the average industrial Rate Schedule 31 customer using 5,389 therms per month is about

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¹ Tariff P.U.C. Or. 25 originated November 1, 2012 with Docket UG 221; OPUC Order No. 12-408 as supplemented by Order No. 12-437, and was filed pursuant to ORS 767.205 and OAR 860-022-0005.

Public Utility Commission of Oregon UG 311; NWN OPUC Advice No. 16-15 July 29, 2016, Page 2

\$13.90, and the monthly increase for the average industrial Rate Schedule 32 firm sales customer using 21,331 therms per month is about \$55.03.

The proposed adjustment for the amortization of the Industrial DSM account is \$0.02894 per therm.

The number of customers affected by the proposed change is 669 industrial and 436 commercial customers; 346 Rate Schedule 3 customers, 208 Rate Schedule 31 customers, and 551 Rate Schedule 32 customers.

This filing is in compliance with ORS 757.259 (2003), which authorizes deferred utility expenses or revenues to be allowed (amortized) in rates to the extent authorized by the Commission in a proceeding to change rates. All of the deferrals included in this filing occurred with appropriate application by Commission authorization, as rate orders or under approved tariffs.

In addition to the supporting materials submitted as part of this filing, the Company will separately submit work papers in electronic format, all of which are incorporated herein by reference.

The Company requests that the tariff sheets filed herewith be permitted to become effective with service on and after November 1, 2016.

In accordance with ORS 757.205, 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.

Notice to customers will be made in accordance with OAR 860-022-0017.

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

eFiling NW Natural Rates & Regulatory Affairs 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 188-1 Cancels Third Revision of Sheet 188-1

SCHEDULE 188 INDUSTRIAL DEMAND SIDE MANAGEMENT (DSM) PROGRAM COST RECOVERY

PURPOSE:

This Schedule recovers the costs of the Company's Industrial Energy Efficiency Program offered under **Schedule 360** "Industrial Demand side Management (DSM) Programs."

APPLICABILITY:

This Schedule applies to Industrial Sales Service Customers taking service under **Rate Schedule 3**, **Rate Schedule 31**, or **Rate Schedule 32**, and to Commercial Sales Service Customers taking service under **Rate Schedule 32**.

Application To Rates: Effective: November 1, 2016 (T)

The Temporary Adjustments in the applicable Rate Schedules include the adjustment shown below. NO ADDITIONAL ADJUSTMENT TO RATES IS REQUIRED.

\$0.02894 per therm (C)

GENERAL TERMS:

Service under this Schedule is governed by the terms of this Schedule, the General Rules and Regulations contained in this, 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 July 29, 2016 NWN OPUC Advice No. 16-15 Effective with service on and after November 1, 2016

EXHIBIT A

BEFORE THE PUBLIC UTILITY COMMISSION OF OREGON

NW NATURAL SUPPORTING MATERIALS

Non-Gas Cost Deferral Amortizations
UM 1420 Industrial DSM

NWN OPUC Advice No. 16-15 / UG 311 July 29, 2016

NW NATURAL

EXHIBIT A

Supporting Material

Non-Gas Cost Deferral Amortizations – UM 1420

Industrial DSM

NWN OPUC ADVICE NO. 16-15 / UG 311

Description	Page
Calculation of Increments Allocated on Equal Cent per Therm Basis	1
Effects on Average Bill by Rate Schedule	2
Basis for Revenue Related Costs	3
PGA Effects on Revenue	4
Summary of Deferred Accounts Included in the PGA	5
186232 Deferral of Industrial DSM Costs	6
186233 Amortization of Industrial DSM Costs	7

NW Natural Rates & Regulatory Affairs

2016-17 PGA - Oregon: August Filing

Rate Adjustment Schedule

С

					Industrial DSM	l
		Oregon PGA	Proposed Amount:	3,489,046	Temporary Incren	nent
		Volumes page,	Revenue Sensitive Multiplier:	2.868%	add revenue sensi	itive factor
		Column F	Amount to Amortize:	3,592,066	to C32 Sales and a	all I Sales
				Multiplier	Volumes	Incremen
Schedule	Block	Α	1	W	X	Y
2R		356,358,823	4	0.0	0	0.000
3C Firm Sales 3I Firm Sales		161,456,307	4	1.0	0 4,186,772	0.000
27 Dry Out		4,186,772 776,455	4	0.0	4,186,772	0.000
31C Firm Sales	Block 1	17,706,769	-	0.0	0	0.00
310 Firm 3dic3	Block 2	12,889,553		0.0	0	0.00
31C Firm Trans	Block 1	1,364,169	1	0.0	0	0.00
	Block 2	1,632,747		0.0	0	0.00
311 Firm Sales	Block 1	4,263,241		1.0	4,263,241	0.02
	Block 2	9,188,740		1.0	9,188,740	0.02
31I Firm Trans	Block 1	175,539	1	0.0	0	0.00
	Block 2	517,230		0.0	0	0.00
32C Firm Sales	Block 1	27,396,213		1.0	27,396,213	0.028
	Block 2	8,169,994		1.0	8,169,994	0.02
	Block 3	807,546		1.0	807,546	0.02
	Block 4	11,819		1.0	11,819	0.02
	Block 5	0		1.0	0	0.02
	Block 6	0		1.0	0	0.02
321 Firm Sales	Block 1	4,897,403		1.0	4,897,403	0.02
	Block 2	5,116,186		1.0	5,116,186	0.02
	Block 3	1,948,136		1.0	1,948,136	0.02
	Block 4	580,946		1.0	580,946	0.02
	Block 5	0		1.0	0	0.02
22 Firm Trans	Block 6	0	-	1.0	0	0.02
32 Firm Trans	Block 1	14,611,752		0.0	0	0.00
	Block 2	17,230,536		0.0	0	0.00
	Block 3 Block 4	9,911,484 17,461,606		0.0	0	0.00
	Block 5	21,764,847		0.0	0	0.00
	Block 6	2,455,153		0.0	0	0.00
32C Interr Sales	Block 1	6,252,115	-	1.0	6,252,115	0.02
020 Interi Gales	Block 2	8,553,424		1.0	8,553,424	0.02
	Block 3	4,339,671		1.0	4,339,671	0.02
	Block 4	5,183,222		1.0	5,183,222	0.02
	Block 5	89,527		1.0	89,527	0.02
	Block 6	0		1.0	0	0.02
321 Interr Sales	Block 1	7,427,326		1.0	7,427,326	0.02
	Block 2	8,841,797		1.0	8,841,797	0.02
	Block 3	4,869,921		1.0	4,869,921	0.02
	Block 4	9,961,831		1.0	9,961,831	0.02
	Block 5	2,051,108		1.0	2,051,108	0.02
	Block 6	0		1.0	0	0.02
32 Interr Trans	Block 1	8,822,944		0.0	0	0.00
	Block 2	16,011,309		0.0	0	0.000
	Block 3	11,561,774		0.0	0	0.000
	Block 4	29,665,818		0.0	0	0.000
	Block 5	56,877,518		0.0	0	0.00
33	Block 6	83,025,918	-	0.0	0	0.00
				0.0		
TOTALS Sources for line 2 abo		966,415,190			124,136,938	0.02

Sched 188

NW Natural Rates & Regulatory Affairs 2016-17 PGA - Oregon: **August** Filing Effects on Average Bill by Rate Schedule [1] ALL

Advice 16-15

VOI	LUMES IN THERMS		meddie [1] A								See note [3]
1			Oregon PGA		Normal				Proposed	Proposed	Proposed
2			Normalized		Therms	Minimum	11/1/2015	11/1/2015	11/1/2016	11/1/2016	11/1/2016
3			Volumes page,	Therms in	Monthly	Monthly	Billing	Current	Industrial DSM	Industrial DSM	Industrial DSM
4			Column D	Block	Average use	Charge	Rates	Average Bill	Rates	Average Bill	% Bill Change
5								F=D+(C * E)		K = D + (C * J)	L =(K - F)/F
6	Schedule	Block	Α	В	С	D	E	F	J	K	L
7	2R		356,358,823	N/A	51	\$8.00	\$0.93513	\$55.69	\$0.93513	\$55.69	0.0%
8	3C Firm Sales		161,456,307	N/A	236	\$15.00	\$0.87993	\$222.66	\$0.87993	\$222.66	0.0%
9	31 Firm Sales		4,186,772	N/A	1,008	\$15.00	\$0.83072	\$852.37	\$0.83330	\$854.97	0.3%
10	27 Dry Out		776,455	N/A	36	\$6.00	\$0.80313	\$34.91	\$0.80313	\$34.91	0.0%
11	31C Firm Sales	Block 1	17,706,769	2,000	3,132	\$325.00	\$0.61817	\$2,239.46	\$0.61817	\$2,239.46	0.0%
12	21C Firms Troppe	Block 2	12,889,553	all additional	1 (01	¢575.00	\$0.59905	****	\$0.59905	****	0.007
13	31C Firm Trans	Block 1	1,364,169	2,000	1,601	\$575.00	\$0.19118	\$881.08	\$0.19118	\$881.08	0.0%
14	311 Firm Sales	Block 2 Block 1	1,632,747 4,263,241	all additional 2,000	5,389	\$325.00	\$0.17480 \$0.53466	\$3,149.18	\$0.17480	£2.1/2.00	0.4%
15 16	311 FIIII 3ales	Block 2	9,188,740	all additional	5,389	\$325.00	\$0.53466	\$3,149.18	\$0.53724 \$0.52039	\$3,163.08	0.4%
17	31I Firm Trans	Block 1	175,539	2,000	5,773	\$575.00	\$0.31761	\$1,496.44	\$0.17031	\$1,496.44	0.0%
18	311 Tilli ITalis	Block 2	517,230	all additional	5,775	\$373.00	\$0.17031	\$1,470.44	\$0.17031	\$1,470.44	0.078
19	32C Firm Sales	Block 1	27,396,213	10,000	8,022	\$675.00	\$0.46316	\$4,390.47	\$0.46574	\$4,411.17	0.5%
20	320 Fill 3ales	Block 2	8,169,994	20,000	0,022	\$075.00	\$0.44762	\$4,370.47	\$0.45020	\$4,411.17	0.576
21		Block 3	807,546	20,000			\$0.44762		\$0.42434		
22		Block 4	11,819	100,000			\$0.42176		\$0.39844		
23		Block 5	0	600,000			\$0.37380		\$0.38292		
24		Block 6	0	all additional			\$0.36996		\$0.37254		
25	32I Firm Sales	Block 1	4,897,403	10,000	21,331	\$675.00		\$10,333.30	\$0.37234	\$10,388.33	0.5%
26	321 FIIIII 3ales	Block 2	5,116,186	20,000	21,331	\$675.00	\$0.44568	\$10,333.30	\$0.44826	\$10,300.33	0.5%
27		Block 3	1,948,136	20,000			\$0.44308		\$0.44826 \$0.42297		
28		Block 4	580,946	100,000			\$0.42039		\$0.39772		
29			0	600,000			\$0.37996		\$0.38254		
30		Block 5	0	all additional			\$0.37990		\$0.37249		
31	32 Firm Trans	Block 6 Block 1	14,611,752	10,000	41,387	\$925.00	\$0.30991	\$4,325.62	\$0.37249	\$4,325.62	0.0%
32	32 Hilli Hall3	Block 2	17,230,536	20,000	41,307	\$725.00	\$0.10049	\$4,325.02	\$0.08542	\$4,323.02	0.076
33		Block 3	9,911,484	20,000			\$0.060342		\$0.06036		
34		Block 4	17,461,606	100,000			\$0.00030		\$0.03528		
35		Block 5	21,764,847	600,000			\$0.03326		\$0.03528		
36		Block 6	2,455,153	all additional			\$0.02021		\$0.01022		
37	32C Interr Sales	Block 1	6,252,115	10,000	35,083	\$675.00		\$15,961.70	\$0.45323	\$16,052.22	0.6%
38	JZC IIIICII Jaics	Block 2	8,553,424	20,000	33,003	\$075.00	\$0.43505	\$13,701.70	\$0.43763	\$10,032.22	0.070
39		Block 3	4,339,671	20,000			\$0.40905		\$0.41163		
40		Block 4	5,183,222	100,000			\$0.38306		\$0.38564		
41		Block 5	89,527	600,000			\$0.36743		\$0.37001		
42		Block 6	0	all additional			\$0.35709		\$0.35967		
43	321 Interr Sales	Block 1	7,427,326	10,000	41,859	\$675.00		\$18,727.71	\$0.45301	\$18,835.71	0.6%
44	021 IIII0II 00I00	Block 2	8,841,797	20,000	,00,	4070.00	\$0.43491	4.0,,2,,,	\$0.43749	4.10/000.7.1	0.070
45		Block 3	4,869,921	20,000			\$0.40899		\$0.41157		
46		Block 4	9,961,831	100,000			\$0.38308		\$0.38566		
47		Block 5	2,051,108	600,000			\$0.36752		\$0.37010		
48		Block 6	0	all additional			\$0.35718		\$0.35976		
49	32 Interr Trans	Block 1	8,822,944	10,000	195,043	\$925.00	\$0.10132	\$9,353.93	\$0.10132	\$9,353.93	0.0%
50	52OH HUH3	Block 2	16,011,309	20,000	5,040	ψ.20.00	\$0.08615	\$7,000.70	\$0.08615	\$7,000.70	0.070
51		Block 3	11,561,774	20,000			\$0.06087		\$0.06087		
52		Block 4	29,665,818	100,000			\$0.03556		\$0.03556		
53		Block 5	56,877,518	600,000			\$0.03330		\$0.02041		
54		Block 6	83,025,918	all additional			\$0.02041		\$0.01029		
55	33	_10011 0	0	N/A	0	\$38,000.00	\$0.00586	\$38,000.00	\$0.00586	\$38,000.00	0.0%

Totals

966,415,190

⁵⁵ 56 57 58 59 [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.
[2] Tariff Advice Notice 16-10: Non-Gas Cost Deferral Amortizations - Intervenor Funding
[3] Tariff Advice Notice 16-15: Non-Gas Cost Deferral Amortizations - Industrial DSM
[4] Tariff Advice Notice 16-14: Non-Gas Cost Deferral Amortizations - SRRM
[5] Tariff Advice Notice 16-16: Non-Gas Cost Deferral Amortizations - Decoupling
[6] Tariff Advice Notice 116-13: Non-Gas Cost Deferral Amortizations - Oregon PUC Fee

^{65 [7]} Tariff Advice Notice 16-17: PGA

NW Natural Rates and Regulatory Affairs 2016-2017 PGA Filing - OREGON Basis for Revenue Related Costs

		Twelve Months	
1		Ended 06/30/16	
2			
3	Total Billed Gas Sales Revenues	606,080,614	
4	Total Oregon Revenues	611,607,847	
5			
6	Regulatory Commission Fees [1]	1,633,358	0.275% Statutory rate
7	City License and Franchise Fees	14,818,591	2.423% Line 7 ÷ Line 4
8	Net Uncollectible Expense [2]	1,036,942	0.170% Line 8 ÷ Line 4
9			
10	Total	17,488,891_	2.868% Sum lines 8-9
11			

13 **Note:**

12

- 14 [1] Dollar figure is set at statutory level of 0.275% times Total Oregon Revenues (line 4).
- 15 Because the fee changed occurred mid gas year, the difference between the previous fee of 0.25%
- 16 and the new fee of 0.275% is being captured as a temporary deferral.
- 17 [2] Represents the normalized net write-offs based on a three-year average.

NW Natural

Rates & Regulatory Affairs
2016-2017 PGA Filing - Oregon: August Filing
PGA Effects on Revenue

Tariff Advice 16-5: Industrial DSM

1		Including Revenue Sensitve <u>Amount</u>
2	Temporary Increments	
3 4 5	Removal of Current Temporary Increments Amortization of Industrial DSM	(\$3,242,119)
6	ATTOLIZATION OF THUUSTHAL DOW	(\$3,242,119)
7	Addition of Proposed Temporary Increments	
8	Amortization of Industrial DSM	3,592,066
9 10		
11	TOTAL OF ALL COMPONENTS OF RATE CHANGES	\$349,947
12		
13		
14		
15	2015 Oregon Earnings Test Normalized Total Revenues	\$653,343,000
16		
17	Effect of this filing, as a percentage change (line 11 ÷ line 15)	0.05%

NW Natural Rates & Regulatory Affairs 2016-2017 PGA Filing - August Filing Summary of Deferred Accounts Included in the PGA

						Estimated	Estimated		
		Jul-Oct		Estimated	rest Rate	Interest	Amount for	Amounts	Amounts
	Balance	Estimated	Jul-Oct	Balance	uring	During	(Refund) or	Excluded from	Included in
Account	6/30/2016	Activity		10/31/2016 Amo	rtization	Amortization	Collection	PGA Filing	PGA Filing
A	В	ပ	Δ	ш	F1	F2		Ŧ	_
				E = sum B thru D	2.20%		G = E + F2		Excl. Rev Sens
20									
21 Miscellaneous Amortizations									
26 186232 DEFER INDUSTRIAL DSM (Mar 15 - Feb 16 activity only)	3,224,384	0	0	3,224,384					
27 186233 AMOR INDUSTRIAL DSM	1,073,920	(854,814)	4,332	223,437					
28 Subtotal	4.298.304	(854.814)	4.332	3.447.821	2.20%	41 225	3.489.046		3.489.046

Debit (Credit)

Docket UM 1420 2016-17 Deferral approved in Order 16-120

186232

Account Number:

Company: State: Description:

Northwest Natural Gas Company Oregon Deferral of Industrial DSM Costs

- 0	Debit (Credit)		Deferrals are au	Deferrals are authorized on a program year (Mar - Feb). The total balance is broken down into separate deferral years for convenience of review	ıram year (Mar -	· Feb). The tota	al balance is broker	n down into separa	te deferral years i	for convenience (ofreview	
v m •	10 // H+20 M	÷	10,000	T	TOTAL	Interest	Mar 14 - Feb 15	Mar 15 - Feb 16	, +in (i+)	TOTAL	Mar 15 - Feb 16	Mar 16 - Feb 17
4 п.	MUIIII/ real	(A)		(d)	(e)	(e1)	(b)	(98)	ACIIVILY	(a)	(u1)	Dalalice (AB)
9	(p)	2	9	E)	0				3	(B)	(,6)	(AB)
7	Beginning Balance	e.										
71	Oct-14	14	1,024,350		16,952	7.78%	16,952		1,041,302	4,957,644		
72	Nov-14	14 1	0	(1,813,882)	20,382	7.78%	20,382		(1,793,500)	3,164,144		
73	Dec-14	14	0		20,514	7.78%	20,514		20,514	3,184,658		
74	Jan-15	15	0		20,647	7.78%	20,647		20,647	3,205,305		
75	Feb-15	15	0		20,781	7.78%	20,781		20,781	3,226,086		
76	Mar-15	15	00.0		00.0	7.78%	00'0		00'0	3,226,086.44	00'0	
77	Apr-15	15	1,026,144.00		3,326.42	7.78%	3,326.42		1,029,470.42	4,255,556.86	1,029,470.42	
78	May-15	15	00.00		6,674.40	7.78%	6,674.40		6,674.40	4,262,231.26	1,036,144.82	
42	Jun-15	15	00.00		6,717.67	7.78%	6,717.67		6,717.67	4,268,948.93	1,042,862.49	
80	Jul-15	15	1,026,144.00		10,087.64	7.78%	10,087.64		1,036,231.64	5,305,180.57	2,079,094.13	
81	Aug-15	15 2	00.00	(7,048.00)	13,456.61	7.78%	13,456.61		6,408.61	5,311,589.18	2,085,502.74	
82	Sep-15	15	00.00		13,521.01	7.78%	13,521.01		13,521.01	5,325,110.19	2,099,023.75	
83	Oct-15	15	1,026,144.00		16,935.09	7.78%	16,935.09		1,043,079.09	6,368,189.28	3,142,102.84	
84	Nov-15	15 1	00.00	(3,226,086.44)	20,371.30	7.78%	20,371.30		(3,205,715.14)	3,162,474.14	3,162,474.14	
82	Dec-15	15	00.00		20,503.37	7.78%	20,503.37		20,503.37	3,182,977.51	3,182,977.51	
98	Jan-16	16	00.00		20,636.30	7.78%	20,636.30		20,636.30	3,203,613.81	3,203,613.81	
87	Feb-16	16	0.00		20,770.10	7.78%	20,770.10		20,770.10	3,224,383.91	3,224,383.91	
88	Mar-16	16	00'0		00'0	7.78%		0.00	00.00	3,224,383.91	3,224,383.91	00'0
86	Apr-16	16	1,009,017.00		3,270.90	7.78%		3,270.90	1,012,287.90	4,236,671.81	3,224,383.91	1,012,287.90
06	May-16	16	00.00		6,563.00	7.78%		6,563.00	6,563.00	4,243,234.81	3,224,383.91	1,018,850.90
91	Jun-16	16	00.00		6,605.55	7.78%		6,605.55	6,605.55	4,249,840.36	3,224,383.91	1,025,456.45
92	Jul-16	16			6,648.38	7.78%		6,648.38	6,648.38	4,256,488.74	3,224,383.91	1,032,104.83
93	Ang-16	16			6,691.48	7.78%		6,691.48	6,691.48	4,263,180.22	3,224,383.91	1,038,796.31
94	Sep-16	16			6,734.86	7.78%		6,734.86	6,734.86	4,269,915.08	3,224,383.91	1,045,531.17
95	Oct-16	16			6,778.53	7.78%		6,778.53	6,778.53	4,276,693.61	3,224,383.91	1,052,309.70
100												
101	History trunca	ted for	History truncated for ease of viewing									
102												
103	NOTES 1 Transfer Fabr	<u>.</u>	3	CC 701 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	+ + + + + + + + + + + + + + + + + + +	MO TO!	+04 000) 40!+0+!+00	(0,040				
105	2 - The (\$7,048)	ruary ba is a rec	larice or prior progovery of Energy Ti	 If a lister rebutary balance of prior program year to 186233 Among The (\$7,048) is a recovery of Energy Trust initiatives from ineligible 	s Amort industrial D n ineligible customer.	iai Dsivi ioi ari mer.	t industrial Daw for amortization (see note above) ble customer.	e above)				

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Northwest Natural Gas Company	Oregon	Amortization of Industrial DSM Costs	186233
Company:	State:	Description:	Account Number:

Dockets UM 1420 and UG 293 Amortization of 2014-15 deferral approved in Order 15-330

← (Debit (Credit)							
ν κ 4	Month/Year	Note	Amortization	Transfers	TOTAL	Interest Rate	Activity	TOTAL
2 4	(a)	(q)	(၁)	(p)	(e)	(e1)	(t)	(b)
7	Beginning Balance							
26	Oct-14		(140,072)		(132)	1.38%	(140,204)	(184,856)
27	Nov-14 old rates	d rates	(28,081)		(229)	1.38%	(28,310)	(213,166)
28	Nov-14 ne	Nov-14 new rates (2)	(130,382)	1,813,882	2,579	1.77%	1,686,080	1,472,914
29	Dec-14		(181,307)		2,039	1.77%	(179,268)	1,293,646
09	Jan-15		(189,368)		1,768	1.77%	(187,599)	1,106,046
61	Feb-15		(160,955)		1,513	1.77%	(159,442)	946,604
62	Mar-15		(161,518)		1,277	1.77%	(160,241)	786,363
63	Apr-15		(155,823)		1,045	1.77%	(154,778)	631,585
64	May-15		(135,727)		831	1.77%	(134,896)	496,689
9	Jun-15		(113,242)		649	1.77%	(112,593)	384,097
99	Jul-15		(105,982)		488	1.77%	(105,494)	278,603
49	Aug-15		(106,030)		333	1.77%	(105,697)	172,905
89	Sep-15		(115,083)		170	1.77%	(114,913)	57,993
69	Oct-15		(133,119)		(13)	1.77%	(133,132)	(75, 139.24)
70	Nov-15 old rates	d rates	(27,968.06)		(131.46)	1.77%	(28,099.52)	(103, 238.76)
71	Nov-15 ne	Nov-15 new rates (1)	(207,665.21)	3,226,086.44	5,021.62	1.93%	3,023,442.85	2,920,204.09
72	Dec-15		(324,453.29)		4,435.75	1.93%	(320,017.54)	2,600,186.55
73	Jan-16		(342,717.02)		3,906.37	1.93%	(338,810.65)	2,261,375.90
74	Feb-16		(281,707.28)		3,410.51	1.93%	(278,296.77)	1,983,079.13
75	Mar-16		(285,870.50)		2,959.56	1.93%	(282,910.94)	1,700,168.19
76	Apr-16		(241,707.38)		2,540.06	1.93%	(239,167.32)	1,461,000.87
77	May-16		(205,145.45)		2,184.81	1.93%	(202,960.64)	1,258,040.23
78	Jun-16		(185,993.10)		1,872.73	1.93%	(184,120.37)	1,073,919.86
79	Jul-16 forecast	recast	(196,357.02)		1,569.32	1.93%	(194,787.70)	879,132.16
80	Aug-16 forecast	recast	(196,315.79)		1,256.07	1.93%	(195,059.72)	684,072.44
81	Sep-16 forecast	recast	(201,405.54)		938.25	1.93%	(200,467.29)	483,605.15
82	Oct-16 fa	forecast	(260,736.13)		568.12	1.93%	(260,168.01)	223,437.14
83								
84	History truncated for ease of view	or ease of viev	wing					
82								
86	NOIES 1 - Transfer in authorized halance from	or halance fro	m account 186232	account 186232 Deferral of Industrial DSM	ISI DCM			
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