



250 SW Taylor Street  
Portland, OR 97204

503-226-4211  
nwnatural.com

July 29, 2022

NWN OPUC Advice No. 22-07 / UG 449  
(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 Company), files herewith revisions and additions to its Tariff, P.U.C. Or. 25,<sup>1</sup> stated to become effective with service on and after November 1, 2022, as follows:

Tenth Revision of Sheet 188-1	Schedule 188	Industrial Demand Side Management (DSM) Program Cost Recovery
-------------------------------	--------------	---

**Purpose**

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, 2022. The Company last adjusted rates for this purpose effective November 1, 2021.

**Background**

This filing is in compliance with ORS 757.259, which authorizes deferred utility expenses or revenues to be allowed (amortized) in rates to the extent authorized by the Public Utility Commission of Oregon (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.

**Proposed Changes**

The net effect of removing the temporary adjustment applied to rates effective November 1, 2021 and the application of the new temporary adjustment is a increase to the Company's annual revenues by \$2,489,657, or 0.35%.

The monthly bill of the average industrial customer served under Rate Schedule 3 using 1,248 therms per month is a increase of \$14.44. The monthly increase for the average industrial Rate Schedule 31 customer using 5,421 therms per month is \$62.72, and the monthly increase for the

<sup>1</sup> 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.

average industrial Rate Schedule 32 firm sales customer using 16,890 therms per month is \$195.41.

The proposed adjustment for the amortization of the Industrial DSM account is \$0.03543 per therm.

In compliance with OAR 860-022-0025 the Company states that the number of customers affected by the proposed change is 657 industrial customers and 588 commercial customers; 340 Rate Schedule 3 customers, 189 Rate Schedule 31 customers, and 716 Rate Schedule 32 customers.

**Conclusion**

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

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](http://www.nwnatural.com).

Please address correspondence on this matter to Lora Bourdo at [lora.bourdo@nwnatural.com](mailto:lora.bourdo@nwnatural.com) with copies to the following:

eFiling  
Rates & Regulatory Affairs  
NW Natural  
250 SW Taylor Street  
Portland, Oregon 97204  
Fax: (503) 220-2579  
Telephone: (503) 610-7330  
[eFiling@nwnatural.com](mailto:eFiling@nwnatural.com)

Sincerely,

NW NATURAL

*/s/ Kyle Walker, CPA*

Kyle Walker, CPA  
Rates/Regulatory Manager

Attachments: Exhibit A – Supporting Materials

# NORTHWEST NATURAL GAS COMPANY

P.U.C. Or. 25

Tenth Revision of Sheet 188-1  
Cancels Ninth 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, 2022

(C)

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

\$0.03543 per therm

(I)

### **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, 2022  
NWN OPUC Advice No. 22-07

Effective with service on  
and after November 1, 2022

EXHIBIT A

BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON

NW NATURAL SUPPORTING MATERIALS

Non-Gas Cost Deferral Amortizations  
Industrial Demand Side Management  
UM 1420

NWN OPUC Advice No. 22- 07/ UG 449

July 29, 2022

# NW NATURAL

## EXHIBIT A

### Supporting Materials

Non-Gas Cost Deferral Amortizations

Industrial Demand Side Management

NWN OPUC ADVICE NO. 22-07 / UG 449

<b>Description</b>	<b>Page</b>
Calculation of Increments Allocated on the Equal Percentage of Margin	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  
 2022-23 PGA - Oregon: August Filing  
 Calculation of Increments Allocated on the EQUAL CENT PER THERM BASIS  
 ALL VOLUMES IN THERMS

			Industrial DSM			
1			5,459,195	Temporary Increment		
2			2.818%	add revenue sensitive factor		
3			5,617,497	to C32 Sales and all Industrial Sales		
4						
5						
6	Schedule	Block	A	Multiplier	Volumes	Increment
7				Z	AA	AB
8	2R		409,287,364	0.0	0	\$0.00000
9	3C Firm Sales		171,250,577	0.0	0	\$0.00000
10	3I Firm Sales		5,092,877	1.0	5,092,877	\$0.03543
11	27 Dry Out		811,830	0.0	0	\$0.00000
12	31C Firm Sales	Block 1	11,608,522	0.0	0	\$0.00000
13		Block 2	10,586,596	0.0	0	\$0.00000
14	31C Firm Trans	Block 1	1,215,943	0.0	0	\$0.00000
15		Block 2	1,545,847	0.0	0	\$0.00000
16	31I Firm Sales	Block 1	3,772,100	1.0	3,772,100	\$0.03543
17		Block 2	8,523,056	1.0	8,523,056	\$0.03543
18	31I Firm Trans	Block 1	158,179	0.0	0	\$0.00000
19		Block 2	403,212	0.0	0	\$0.00000
20	32C Firm Sales	Block 1	33,100,659	1.0	33,100,659	\$0.03543
21		Block 2	9,332,944	1.0	9,332,944	\$0.03543
22		Block 3	1,672,358	1.0	1,672,358	\$0.03543
23		Block 4	450,700	1.0	450,700	\$0.03543
24		Block 5	0	1.0	0	\$0.03543
25		Block 6	0	1.0	0	\$0.03543
26	32I Firm Sales	Block 1	6,098,492	1.0	6,098,492	\$0.03543
27		Block 2	5,688,560	1.0	5,688,560	\$0.03543
28		Block 3	1,628,895	1.0	1,628,895	\$0.03543
29		Block 4	366,680	1.0	366,680	\$0.03543
30		Block 5	0	1.0	0	\$0.03543
31		Block 6	0	1.0	0	\$0.03543
32	32C Firm Trans	Block 1	2,620,992	0.0	0	\$0.00000
33		Block 2	2,162,687	0.0	0	\$0.00000
34		Block 3	750,954	0.0	0	\$0.00000
35		Block 4	1,043,887	0.0	0	\$0.00000
36		Block 5	4,474	0.0	0	\$0.00000
37		Block 6	0	0.0	0	\$0.00000
38	32I Firm Trans	Block 1	11,249,133	0.0	0	\$0.00000
39		Block 2	16,747,498	0.0	0	\$0.00000
40		Block 3	10,738,714	0.0	0	\$0.00000
41		Block 4	21,608,366	0.0	0	\$0.00000
42		Block 5	21,402,253	0.0	0	\$0.00000
43		Block 6	6,366,501	0.0	0	\$0.00000
44	32C Interr Sales	Block 1	4,833,799	1.0	4,833,799	\$0.03543
45		Block 2	7,156,901	1.0	7,156,901	\$0.03543
46		Block 3	4,186,957	1.0	4,186,957	\$0.03543
47		Block 4	6,103,469	1.0	6,103,469	\$0.03543
48		Block 5	3,305,561	1.0	3,305,561	\$0.03543
49		Block 6	0	1.0	0	\$0.03543
50	32I Interr Sales	Block 1	8,137,746	1.0	8,137,746	\$0.03543
51		Block 2	10,527,326	1.0	10,527,326	\$0.03543
52		Block 3	6,257,062	1.0	6,257,062	\$0.03543
53		Block 4	15,885,254	1.0	15,885,254	\$0.03543
54		Block 5	6,695,883	1.0	6,695,883	\$0.03543
55		Block 6	9,720,618	1.0	9,720,618	\$0.03543
56	32C Interr Trans	Block 1	829,989	0.0	0	\$0.00000
57		Block 2	1,633,924	0.0	0	\$0.00000
58		Block 3	962,812	0.0	0	\$0.00000
59		Block 4	3,077,817	0.0	0	\$0.00000
60		Block 5	520,526	0.0	0	\$0.00000
61		Block 6	0	0.0	0	\$0.00000
62	32I Interr Trans	Block 1	6,950,973	0.0	0	\$0.00000
63		Block 2	12,319,513	0.0	0	\$0.00000
64		Block 3	8,609,147	0.0	0	\$0.00000
65		Block 4	19,262,609	0.0	0	\$0.00000
66		Block 5	37,658,652	0.0	0	\$0.00000
67		Block 6	97,066,948	0.0	0	\$0.00000
68	33		0	0.0	0	\$0.00000
69	TOTALS		1,048,994,335		158,537,896	\$ 0.03543
70	Sources for line 2 above:					
71	Inputs page			Line 49		
72	Tariff Schedules					
73	Rate Adjustment Schedule			Sched 188		

1	Oregon PGA		Normal	Minimum	11/1/2021	11/1/2021	Proposed	Proposed	Proposed		
2	Normalized		Therms				11/1/2022	11/1/2022	11/1/2022		
3	Volumes page,		Therms in	Monthly	Monthly	Billing	Current	Industrial DSM	Industrial DSM		
4	Column D		Block	Average use	Charge	Rates	Average Bill	Average Bill	% Bill Change		
5	Schedule	Block	A	B	C	D	E	F=D*(C * E)	J	K = D*(C * J)	L = (K - F)/F
7	2R		409,287,364	N/A	54	\$8.00	\$1.04637	\$64.50	\$1.04637	\$64.50	0.0%
8	3C Firm Sales		171,250,577	N/A	242	\$15.00	\$0.95180	\$245.34	\$0.95180	\$245.34	0.0%
9	3I Firm Sales		5,092,877	N/A	1,248	\$15.00	\$0.88434	\$1,118.65	\$0.89591	\$1,133.09	1.3%
10	27 Dry Out		811,830	N/A	43	\$8.00	\$0.87077	\$45.44	\$0.87077	\$45.44	0.0%
11	31C Firm Sales	Block 1	11,608,522	2,000	2,904	\$325.00	\$0.62830	\$2,129.01	\$0.62830	\$2,129.01	0.0%
12		Block 2	10,586,596	all additional			\$0.60555		\$0.60555		
13	31C Firm Trans	Block 1	1,215,943	2,000	3,901	\$575.00	\$0.23009	\$1,435.08	\$0.23009	\$1,435.08	0.0%
14		Block 2	1,545,847	all additional			\$0.21037		\$0.21037		
15	31I Firm Sales	Block 1	3,772,100	2,000	5,421	\$325.00	\$0.58665	\$3,437.71	\$0.59822	\$3,500.43	1.8%
16		Block 2	8,523,056	all additional			\$0.56691		\$0.57848		
17	31I Firm Trans	Block 1	158,179	2,000	6,683	\$575.00	\$0.20208	\$1,834.75	\$0.20208	\$1,834.75	0.0%
18		Block 2	403,212	all additional			\$0.18270		\$0.18270		
19	32C Firm Sales	Block 1	33,100,659	10,000	6,902	\$675.00	\$0.51525	\$4,231.23	\$0.52682	\$4,311.09	1.9%
20		Block 2	9,332,944	20,000			\$0.49513		\$0.50670		
21		Block 3	1,672,358	20,000			\$0.46168		\$0.47325		
22		Block 4	450,700	100,000			\$0.42812		\$0.43969		
23		Block 5	0	600,000			\$0.40359		\$0.41516		
24		Block 6	0	all additional			\$0.39217		\$0.40374		
25	32I Firm Sales	Block 1	6,098,492	10,000	16,890	\$675.00	\$0.50505	\$9,077.83	\$0.51662	\$9,273.24	2.2%
26		Block 2	5,688,560	20,000			\$0.48654		\$0.49811		
27		Block 3	1,628,895	20,000			\$0.45562		\$0.46719		
28		Block 4	366,680	100,000			\$0.42480		\$0.43637		
29		Block 5	0	600,000			\$0.40295		\$0.41452		
30		Block 6	0	all additional			\$0.39213		\$0.40370		
31	32C Firm Trans	Block 1	2,620,992	10,000	19,592	\$925.00	\$0.12085	\$3,118.76	\$0.12085	\$3,118.76	0.0%
32		Block 2	2,162,687	20,000			\$0.10271		\$0.10271		
33		Block 3	750,954	20,000			\$0.07256		\$0.07256		
34		Block 4	1,043,887	100,000			\$0.04238		\$0.04238		
35		Block 5	4,474	600,000			\$0.02424		\$0.02424		
36		Block 6	0	all additional			\$0.01211		\$0.01211		
37	32I Firm Trans	Block 1	11,249,133	10,000	71,288	\$925.00	\$0.11947	\$6,482.07	\$0.11947	\$6,482.07	0.0%
38		Block 2	16,747,498	20,000			\$0.10158		\$0.10158		
39		Block 3	10,738,714	20,000			\$0.07180		\$0.07180		
40		Block 4	21,608,366	100,000			\$0.04203		\$0.04203		
41		Block 5	21,402,253	600,000			\$0.02413		\$0.02413		
42		Block 6	6,366,501	all additional			\$0.01227		\$0.01227		
43	32C Interr Sales	Block 1	4,833,799	10,000	42,644	\$675.00	\$0.49959	\$20,995.07	\$0.51116	\$21,488.46	2.4%
44		Block 2	7,156,901	20,000			\$0.48127		\$0.49284		
45		Block 3	4,186,957	20,000			\$0.45072		\$0.46229		
46		Block 4	6,103,469	100,000			\$0.42017		\$0.43174		
47		Block 5	3,305,561	600,000			\$0.40182		\$0.41339		
48		Block 6	0	all additional			\$0.38818		\$0.39975		
49	32I Interr Sales	Block 1	8,137,746	10,000	79,478	\$675.00	\$0.49934	\$36,692.70	\$0.51091	\$37,612.26	2.5%
50		Block 2	10,527,326	20,000			\$0.48110		\$0.49267		
51		Block 3	6,257,062	20,000			\$0.45068		\$0.46225		
52		Block 4	15,885,254	100,000			\$0.42027		\$0.43184		
53		Block 5	6,695,883	600,000			\$0.40201		\$0.41358		
54		Block 6	9,720,618	all additional			\$0.38839		\$0.39996		
55	32C Interr Trans	Block 1	829,989	10,000	53,220	\$925.00	\$0.11540	\$5,556.74	\$0.11540	\$5,556.74	0.0%
56		Block 2	1,633,924	20,000			\$0.09810		\$0.09810		
57		Block 3	962,812	20,000			\$0.06928		\$0.06928		
58		Block 4	3,077,817	100,000			\$0.04044		\$0.04044		
59		Block 5	520,526	600,000			\$0.02315		\$0.02315		
60		Block 6	0	all additional			\$0.01157		\$0.01157		
61	32I Interr Trans	Block 1	6,950,973	10,000	226,204	\$925.00	\$0.11561	\$11,281.52	\$0.11561	\$11,281.52	0.0%
62		Block 2	12,319,513	20,000			\$0.09831		\$0.09831		
63		Block 3	8,609,147	20,000			\$0.06948		\$0.06948		
64		Block 4	19,262,609	100,000			\$0.04065		\$0.04065		
65		Block 5	37,658,652	600,000			\$0.02335		\$0.02335		
66		Block 6	97,066,948	all additional			\$0.01184		\$0.01184		
67	33		0	N/A	0	\$38,000	\$0.00585	\$38,000.00	\$0.00585	\$38,000.00	0.0%
68											
69	<b>Totals</b>		<b>1,048,994,335</b>								

[1] For convenience of presentation, demand charges for Rate Schedules 31 and 32 have been removed.  
 [2] Tariff Advice Notice 22-04: Non-Gas Cost Deferral Amortizations - Intervenor Funding  
 [3] Tariff Advice Notice 22-05: Non-Gas Cost Deferral Amortizations - Oregon PUC Fee  
 [4] Tariff Advice Notice 22-06: Non-Gas Cost Deferral Amortizations - SRRM  
 [5] Tariff Advice Notice 22-07: Non-Gas Cost Deferral Amortizations - Industrial DSM  
 [6] Tariff Advice Notice 22-08: Non-Gas Cost Deferral Amortizations - Decoupling  
 [7] Tariff Advice Notice 22-09: Non-Gas Cost Deferral Amortizations - WARM  
 [8] Tariff Advice Notice 22-10: Non-Gas Cost Deferral Amortization - Corporate Activity Tax (CAT) Amortization  
 [9] Tariff Advice Notice 22-11: Non-Gas Cost Amortization - Net Curtailment and Entitlement Revenues  
 [10] Tariff Advice Notice 22-12: Non-Gas Cost Amortization - Gas Reserves EDIT Amortization Credit  
 [11] Tariff Advice Notice 22-13: Non-Gas Cost Amortization - Residual Balance, GeoTEE, and Astoria Sale  
 [12] Tariff Advice Notice 22-14: Non-Gas Cost Amortization - Climate Protection Program (CPP)  
 [13] Tariff Advice Notice 22-15: PGA  
 [14] Tariff Advice Notice 22-16: Non-Gas Cost Amortization - TSA Security Directive

**NW Natural**  
**Rates and Regulatory Affairs**  
**2022-2023 PGA Filing - OREGON**  
**Basis for Revenue Related Costs**

	Twelve Months <u>Ended 06/30/22</u>		
1			
2			
3	Total Billed Gas Sales Revenues	\$ 760,119,061	
4	Total Oregon Revenues	\$ 767,240,632	
5			
6	Regulatory Commission Fees [1]	n/a	0.430% Statutory rate
7	City License and Franchise Fees	\$ 17,575,166	2.291% Line 7 ÷ Line 4
8	Net Uncollectible Expense [2]	<u>\$ 744,324</u>	<u>0.097%</u> Line 8 ÷ Line 4
9			
10	Total		<u><u>2.818%</u></u> Sum lines 8-9
11			
12			

13 **Note:**

- 14 [1] Dollar figure is set at statutory level of 0.275% times Total Oregon Revenues (line 4).  
 15 Because the fee changed since our last general rate case, the difference between the previous fee of 0.375%  
 16 and the new fee of 0.430%, as it affects our base rates, 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**  
**2022-2023 PGA Filing - Oregon: August Filing**  
**PGA Effects on Revenue**  
**UG 449: Industrial DSM**

	<b>Including Revenue Sensitive Amount</b>
1	
2 <b><u>Temporary Increments</u></b>	
3	
4 <u>Removal of Current Temporary Increments</u>	
5 Amortization of Industrial DSM	(3,127,840)
6	
7 <u>Addition of Proposed Temporary Increments</u>	
8 Amortization of Industrial DSM	5,617,497
9	
10	
11 <b>TOTAL OF ALL COMPONENTS OF RATE CHANGES</b>	<b><u><u>\$2,489,657</u></u></b>
12	
13	
14	
15 2021 Oregon Earnings Test Normalized Total Revenues	\$707,222,790
16	
17 Effect of this filing, as a percentage change (line 11 ÷ line 15)	0.35%

**NW Natural**  
**Rates & Regulatory Affairs**  
**2022-2023 PGA Filing - August Filing**  
**Summary of Deferred Accounts Included in the PGA**

Account	Balance 6/30/2022	Jul-Oct Estimated Activity	Jul-Oct Interest	Estimated Balance 10/31/2022	Interest Rate During Amortization	Estimated Interest During Amortization	Total Estimated Amount for (Refund) or Collection	Amounts Excluded from PGA Filing	Amounts Included in PGA Filing
A	B	C	D	E	F1	F2	G	H	I
				E = sum B thru D	1.82%		G = E + F2		Excl. Rev Sens
42 186232 INDUSTRIAL DSM DEFERRAL (Mar 2021 - Feb 2022)	5,602,497	0	0	5,602,497					
43 186233 AMOR INDUSTRIAL DSM	599,109	(796,784)	933	(196,742)					
44 Total	6,201,606	(796,784)	933	5,405,755	1.82%	53,440	5,459,195		<b>5,459,195</b>

Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: Deferral of Industrial DSM Costs  
 Account Number: 186232  
 Docket UM 1420  
 Last deferral reauthorization was approved in Order 21-116

1 Debit (Credit) *Deferrals are authorized on a program year (Mar - Feb). The total balance is broken down into separate deferral years for convenience of review*

2

3

Month/Year	Note	Deferral	Transfers	TOTAL Interest	Interest Rate	Mar 19- Feb 20 Interest	Mar 20- Feb 21 Interest	Mar 21- Feb 22 Interest	Total Activity	TOTAL Balance	Mar 19- Feb 20 Balance	Mar 20- Feb 21 Balance	Mar 21- Feb 22 Balance	Mar 22-Feb 23 Balance
(a)	(b)	(c)	(d)	(e)	(e1)	(e11)	(e12)	(e12)	(f)	(g)	(g11)	(g12)	(g12)	(g12)
Beginning Balance														
Jul-20		1,393,862.00		4,249.54	7.317%		4,249.54		1,398,111.54	5,143,394.25	3,745,282.71	1,398,111.54		
Aug-20		-		8,524.99	7.317%		8,524.99		8,524.99	5,151,919.24	3,745,282.71	1,406,636.53		
Sep-20		-		8,576.97	7.317%		8,576.97		8,576.97	5,160,496.21	3,745,282.71	1,415,213.50		
Oct-20		1,393,862.00		12,878.80	7.317%		12,878.80		1,406,740.80	6,567,237.01	3,745,282.71	2,821,954.30		
Nov-20	1	-	(3,745,282.71)	16,379.09	6.965%		16,379.09		(3,728,903.62)	2,838,333.39		2,838,333.39		
Dec-20		-		16,474.16	6.965%		16,474.16		16,474.16	2,854,807.55		2,854,807.55		
Jan-21		-		16,569.78	6.965%		16,569.78		16,569.78	2,871,377.33		2,871,377.33		
Feb-21		0.00		16,665.95	6.965%		16,665.95		16,665.95	2,888,043.28		2,888,043.28		
Mar-21		0.00		0.00	6.965%			0.00	-	2,888,043.28		2,888,043.28		-
Apr-21		1,076,519.00		3,124.15	6.965%			3,124.15	1,079,643.15	3,967,686.43		2,888,043.28	1,079,643.15	
May-21		0.00		6,266.43	6.965%			6,266.43	6,266.43	3,973,952.86		2,888,043.28	1,085,909.58	
Jun-21		1,614,778.00		10,989.02	6.965%			10,989.02	1,625,767.02	5,599,719.88		2,888,043.28	2,711,676.60	
Jul-21		0.00		15,739.02	6.965%			15,739.02	15,739.02	5,615,458.90		2,888,043.28	2,727,415.62	
Aug-21		0.00		15,830.37	6.965%			15,830.37	15,830.37	5,631,289.27		2,888,043.28	2,743,245.99	
Sep-21		0.00		15,922.26	6.965%			15,922.26	15,922.26	5,647,211.53		2,888,043.28	2,759,168.25	
Oct-21		2,691,298.00		23,825.04	6.965%			23,825.04	2,715,123.04	8,362,334.57		2,888,043.28	5,474,291.29	
Nov-21	1	0.00	(2,888,043.28)	31,773.70	6.965%			31,773.70	(2,856,269.58)	5,506,064.99			5,506,064.99	
Dec-21		0.00		31,958.12	6.965%			31,958.12	31,958.12	5,538,023.11			5,538,023.11	
Jan-22		0.00		32,143.61	6.965%			32,143.61	32,143.61	5,570,166.72			5,570,166.72	
Feb-22		0.00		32,330.18	6.965%			32,330.18	32,330.18	5,602,496.90			5,602,496.90	
Mar-22		1,500,000.00		4,353.13	6.965%			4,353.13	1,504,353.13	7,106,850.03			5,602,496.90	1,504,353.13
Apr-22		0.00		8,731.52	6.965%			8,731.52	8,731.52	7,115,581.55			5,602,496.90	1,513,084.65
May-22		0.00		8,782.20	6.965%			8,782.20	8,782.20	7,124,363.75			5,602,496.90	1,521,866.85
Jun-22		2,000,000.00		14,637.34	6.965%			14,637.34	2,014,637.34	9,139,001.09			5,602,496.90	3,536,504.19
Jul-22				20,526.46	6.965%			20,526.46	20,526.46	9,159,527.55			5,602,496.90	3,557,030.65
Aug-22				20,645.60	6.965%			20,645.60	20,645.60	9,180,173.15			5,602,496.90	3,577,676.25
Sep-22				20,765.43	6.965%			20,765.43	20,765.43	9,200,938.58			5,602,496.90	3,598,441.68
Oct-22				20,885.96	6.965%			20,885.96	20,885.96	9,221,824.54			5,602,496.90	3,619,327.64

History truncated for ease of viewing

**NOTES**

1 - Transferred February balance of prior program year to 186233 Amort Industrial DSM for amortization (see note above).

Company: Northwest Natural Gas Company  
 State: Oregon  
 Description: Amortization of Industrial DSM Costs  
 Account Number: 186233  
 Dockets UM 1420, UG 405 and UG 425  
 Amortization of 2020-2021 deferral approved in Order 21-369

1	Debit	(Credit)						
2								
3					TOTAL	Interest		TOTAL
4	Month/Year	Note	Amortization	Transfers	Interest	Rate	Activity	Balance
5	(a)	(b)	(c)	(d)	(e1)	(e2)	(f)	(g)
6								
7	Beginning Balance							
147	Jun-21		(214,242.26)		2,489.51	2.63%	(211,752.75)	1,031,264.93
148	Jul-21		(188,149.79)		2,054.01	2.63%	(186,095.78)	845,169.15
149	Aug-21		(189,564.74)		1,644.60	2.63%	(187,920.14)	657,249.01
150	Sep-21		(190,778.25)		1,231.41	2.63%	(189,546.84)	467,702.17
151	Oct-21		(256,446.65)		744.02	2.63%	(255,702.63)	211,999.54
152	Nov-21	Old rates	(101,646.76)		353.24	2.63%	(101,293.52)	110,706.02
153	Nov-21	New rates <b>(1)</b>	(185,445.22)	2,888,043.28	2,888.50	1.24%	2,705,486.56	2,816,192.58
154	Dec-21		(336,347.54)		2,736.29	1.24%	(333,611.25)	2,482,581.33
155	Jan-22		(388,924.28)		2,364.39	1.24%	(386,559.89)	2,096,021.44
156	Feb-22		(346,128.51)		1,987.06	1.24%	(344,141.45)	1,751,879.99
157	Mar-22		(342,097.99)		1,633.53	1.24%	(340,464.46)	1,411,415.53
158	Apr-22		(301,637.66)		1,302.62	1.24%	(300,335.04)	1,111,080.49
159	May-22		(285,158.28)		1,000.78	1.24%	(284,157.50)	826,922.99
160	Jun-22		(228,550.57)		736.40	1.24%	(227,814.17)	599,108.82
161	Jul-22	Forecast	(182,663.63)		524.70	1.24%	(182,138.93)	416,969.89
162	Aug-22	Forecast	(184,303.56)		335.65	1.24%	(183,967.91)	233,001.98
163	Sep-22	Forecast	(180,877.97)		147.32	1.24%	(180,730.65)	52,271.33
164	Oct-22	Forecast	(248,938.90)		(74.60)	1.24%	(249,013.50)	(196,742.17)

History truncated for ease of viewing

**NOTES**

**1** - Transferred in authorized balance from account 186232 Deferral of Industrial DSM.