EXHIBIT A

BEFORE THE

WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

NW NATURAL SUPPORTING MATERIALS

Industrial Energy Efficiency

NWN WUTC Advice No. 23-11 / UG-_____

September 15, 2023

NW NATURAL

EXHIBIT A

Supporting Materials

Industrial Energy Efficiency

NWN WUTC ADVICE NO. 23-11 / UG-____

Description	Page
Calculation of Increments Allocated on the Equal Cent of Per Therm Basis	1
Calculation of Effect on Customer Average Bill by Rate Schedule	2
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151887 Defer WA EE Audit	4
Effects on Revenue	5

NW Natural Rates & Regulatory Affairs 2023-2024 PGA Filing - Washington: September Filing Calculation of Increments Allocated on the EQUAL CENT PER THERM BASIS

1			Washington	Ι	Industrial Energy Efficiency Audit			
2			PGA	Proposed Amount:	16,384	Temporary Increme		
3			Volumes page,	Revenue Sensitive Multiplie	4.357%	add revenue sensit	ve factor	
4		-	Column F	Amount to Amortize:	17,130	All Industrial and Tr		
5					Multiplier	Volumes	Increment	
6	Schedule	Block	A 218.010		N	0	P	
7 8	1R 1C		318,916 22,569		0.0	0	\$0.00000 \$0.00000	
9	2R		60,471,175		0.0	0	\$0.00000	
10	3 CFS		19,986,400		0.0	0	\$0.00000	
11	3 IFS		277,642		1.0	277,642	\$0.00083	
12	27		80,870		0.0	0	\$0.00000	
13	41C Firm Sales	Block 1	1,570,103		0.0	0	\$0.00000	
14		Block 2	2,126,827		0.0	0	\$0.00000	
15	41I Firm Sales	Block 1	405,389		1.0	405,389	\$0.00083	
16		Block 2	803,153		1.0	803,153	\$0.00083	
17	41C Interr Sales	Block 1	0		0.0	0	\$0.00000	
18 19	41I Interr Sales	Block 2 Block 1	0		0.0	0	\$0.00000 \$0.00083	
20	411 Interi Sales	Block 2	0		1.0	0	\$0.00083	
21	41C Firm Trans	Block 1	148,853		1.0	148,853	\$0.00083	
22		Block 2	298,848		1.0	298,848	\$0.00083	
23	41I Firm Trans	Block 1	0		1.0	0	\$0.00083	
24		Block 2	0		1.0	0	\$0.00083	
25	42C Firm Sales	Block 1	701,175		0.0	0	\$0.00000	
26		Block 2	698,884		0.0	0	\$0.00000	
27		Block 3	213,654		0.0	0	\$0.00000	
28		Block 4	43,634		0.0	0	\$0.00000	
29		Block 5 Block 6	0		0.0	0	\$0.00000 \$0.00000	
30 31	42I Firm Sales	Block 6 Block 1	0 1,266,148		0.0	0 1,266,148	\$0.00000 \$0.00083	
32	72111111 30105	Block 1 Block 2	871,827		1.0	871,827	\$0.00083	
33		Block 3	146,523		1.0	146,523	\$0.00083	
34		Block 4	10,867		1.0	10,867	\$0.00083	
35		Block 5	0		1.0	0	\$0.00083	
36		Block 6	0		1.0	0	\$0.00083	
37	42C Firm Trans	Block 1	217,853		1.0	217,853	\$0.00083	
38		Block 2	435,705		1.0	435,705	\$0.00083	
39		Block 3	435,705		1.0	435,705	\$0.00083	
40		Block 4	665,436		1.0	665,436	\$0.00083	
41		Block 5	0		1.0	0	\$0.00083	
42	421 5im Too -	Block 6	0		1.0	0	\$0.00083	
43 44	421 Firm Trans	Block 1 Block 2	840,318 1,062,417		1.0 1.0	840,318 1,062,417	\$0.00083 \$0.00083	
44		Block 2 Block 3	936,547		1.0	936,547	\$0.00083	
46		Block 4	2,527,103		1.0	2,527,103	\$0.00083	
47		Block 5	1,239,686		1.0	1,239,686	\$0.00083	
48		Block 6	0		1.0	0	\$0.00083	
49	42C Interr Sales	Block 1	226,932		0.0	0	\$0.00000	
50		Block 2	425,616		0.0	0	\$0.00000	
51		Block 3	194,048		0.0	0	\$0.00000	
52		Block 4	93,667		0.0	0	\$0.00000	
53		Block 5	0		0.0	0	\$0.00000	
54		Block 6	0		0.0	0	\$0.00000	
55	42I Interr Sales	Block 1	128,853		1.0	128,853	\$0.00083	
56 57		Block 2 Block 3	91,079 0		1.0	91,079	\$0.00083 \$0.00083	
57		Block 3 Block 4	0		1.0 1.0	0 0	\$0.00083 \$0.00083	
59		Block 5	0		1.0	0	\$0.00083	
60		Block 6	0		1.0	0	\$0.00083	
61	42C Inter Trans	Block 1	0		1.0	0	\$0.00083	
62		Block 2	0		1.0	0	\$0.00083	
63		Block 3	0		1.0	0	\$0.00083	
64		Block 4	0		1.0	0	\$0.00083	
65		Block 5	0		1.0	0	\$0.00083	
66		Block 6	0		1.0	0	\$0.00083	
67	42I Inter Trans	Block 1	830,413		1.0	830,413	\$0.00083	
68		Block 2	1,522,701		1.0	1,522,701	\$0.00083	
69 70		Block 3 Block 4	1,166,628		1.0	1,166,628	\$0.00083 \$0.00083	
70 71		Block 4 Block 5	2,984,749 1,303,638		1.0 1.0	2,984,749 1,303,638	\$0.00083	
72		Block 5	1,303,038		1.0	1,505,058	\$0.00083	
73	43 Firm Trans		0		1.0	0	\$0.00083	
74	43 Interr Trans		0		1.0	0	\$0.00083	
	Intentionally blan	<						
76								
	Totals		107,792,550			20,618,082	0.00083	
78	· · · ·	1.	0					
	Sources for line 2	above:	_		Line 20			
80 81	Inputs page Tariff Schedules:	_			Line 36			
	Schedule #				Schedule 233			
02	soncaule #	_			Scheuule 200			

NW Natural Rates & Regulatory Affairs 2023-2024 PGA Filing - Washington: September Filing PGA Effects on Average Bill by Rate Schedule Calculation of Effect on Customer Average Bill by Rate Schedule [1]

		Washington PGA Normalized		Normal Therms	Minimum	Current 11/1/2022	11/1/2022	Proposed 11/1/2023	Proposed 11/1/2023	Proposed 11/1/2023
		Volumes page,	Therms in	Monthly	Monthly	Billing	Current		Industrial EE Audit	
		Column D	Block	Average use	Charge	Rates	Average Bill[2] F=D+(C * E)	Rates	Average Bill T = D+(C*S)	% Bill Change
Schedule	Block	А	в	с	D	E	F=D+(C * E)	s	T = D+(C·S)	U
1R		318,916	N/A	16.0	\$5.50	\$1.59190	\$30.97	\$1.59190	\$30.97	0.
10		22,569	N/A	51.0	\$7.00	\$1.60601	\$88.91	\$1.60601 \$1.41591	\$88.91	0.
2R 3 CFS		60,471,175 19,986,400	N/A N/A	58.0 249.0	\$8.00 \$22.00	\$1.41591 \$1.25038	\$90.12 \$333.34	\$1.41591	\$90.12 \$333.34	0.
3 IFS		277,642	N/A	1,218.0	\$22.00	\$1.22899	\$1,518.91	\$1.22982	\$1,519.92	0.
27		80,870	N/A	23.0	\$9.00	\$1.02062	\$32.47	\$1.02062	\$32.47	0.
41C Firm Sales	Block 1	1,570,103	2,000	3,712.0	\$250.00	\$1.03667		\$1.03667		
	Block 2 TOTAL	2,126,827	all additional			\$0.98320	\$4,006.58	\$0.98320	\$4,006.58	0.
41I Firm Sales	Block 1	405,389	2,000	4,578.0	\$250.00	\$0.96687	<i>\$4,000.30</i>	\$0.96770	Ş4,000.50	0.
	Block 2	803,153	all additional			\$0.92170		\$0.92253		
	TOTAL						\$4,559.88		\$4,563.68	0.
41C Interr Sales	Block 1 Block 2	0	2,000 all additional	0.0	\$250.00	\$1.01490 \$0.96393		\$1.01490 \$0.96393		
	TOTAL	0	an additional			30.50353	\$250.00	\$0.50353	\$250.00	0.
41I Interr Sales	Block 1	0	2,000	0.0	\$250.00	\$0.95740	7-00-00	\$0.95823	1-01-01	
	Block 2	0	all additional			\$0.91323		\$0.91406		
41C Firm Trans	TOTAL Block 1	148,853	2,000	4.664.0	¢500.00	\$0.38083	\$250.00	\$0.38166	\$250.00	0.
41C Firm Trans	Block 1 Block 2	298,848	2,000 all additional	4,664.0	\$500.00	\$0.38083 \$0.33552		\$0.38166		
	TOTAL	230,040	un additional			90.33332	\$2,155.49	<i>Q</i> 0.00000	\$2,159.36	0.
41I Firm Trans	Block 1	0	2,000	0.0	\$500.00	\$0.37098		\$0.37181		
	Block 2	0	all additional			\$0.32687	6500.00	\$0.32770	6500.00	-
42C Firm Sales	TOTAL Block 1	701,175	10,000	17,264.0	\$1,300.00	\$0.80750	\$500.00	\$0.80750	\$500.00	0.
	Block 2	698,884	20,000	1,204.0	ç1,000.00	\$0.78434		\$0.78434		
	Block 3	213,654	20,000			\$0.73831		\$0.73831		
	Block 4	43,634	100,000			\$0.70801		\$0.70801		
	Block 5 Block 6	0	600,000 all additional			\$0.66761 \$0.61709		\$0.66761 \$0.61709		
	TOTAL	0				ŞU.01709	\$15,072.45	\$0.61709	\$15,072.45	0.
421 Firm Sales	Block 1	1,266,148	10,000	19,128.0	\$1,300.00	\$0.75461	+	\$0.75544	<i>t,</i>	
	Block 2	871,827	20,000			\$0.73700		\$0.73783		
	Block 3	146,523	20,000			\$0.70198		\$0.70281		
	Block 4 Block 5	10,867 0	100,000 600,000			\$0.67895 \$0.64824		\$0.67978 \$0.64907		
	Block 6	0	all additional			\$0.60982		\$0.61065		
	TOTAL						\$15,573.44		\$15,589.31	0.
42C Firm Trans	Block 1	217,853	10,000	73,112.0	\$1,550.00	\$0.15376		\$0.15459		
	Block 2 Block 3	435,705 435,705	20,000 20,000			\$0.13764 \$0.10553		\$0.13847 \$0.10636		
	Block 4	665,436	100,000			\$0.10555		\$0.08528		
	Block 5	0	600,000			\$0.05629		\$0.05712		
	Block 6	0	all additional			\$0.02111		\$0.02194		
401 F	TOTAL	0.40.240	40.000	60.042.0	64 550 00	60 45000	\$9,902.81	60 45460	\$9,963.49	0.
42I Firm Trans	Block 1 Block 2	840,318 1,062,417	10,000 20,000	68,813.0	\$1,550.00	\$0.15086 \$0.13503		\$0.15169 \$0.13586		
	Block 3	936,547	20,000			\$0.10354		\$0.10437		
	Block 4	2,527,103	100,000			\$0.08283		\$0.08366		
	Block 5	1,239,686	600,000			\$0.05523		\$0.05606		
	Block 6 TOTAL	0	all additional			\$0.02071	\$9,388.28	\$0.02154	\$9,445.40	0.
42C Interr Sales	Block 1	226,932	10,000	39,178.0	\$1,300.00	\$0.76839	\$3,000120	\$0.76839	\$3,445146	
	Block 2	425,616	20,000			\$0.74928		\$0.74928		
	Block 3	194,048	20,000			\$0.71125		\$0.71125		
	Block 4 Block 5	93,667 0	100,000 600,000			\$0.68621 \$0.65288		\$0.68621 \$0.65288		
	Block 6	0	all additional			\$0.65288 \$0.61118		\$0.65288		
	TOTAL						\$30,497.35		\$30,497.35	0.
42I Interr Sales	Block 1	128,853	10,000	18,328.0	\$1,300.00	\$0.75105		\$0.75188		
	Block 2 Block 3	91,079 0	20,000			\$0.73376 \$0.69936		\$0.73459 \$0.70019		
	Block 3 Block 4	0	20,000			\$0.69936 \$0.67671		\$0.70019 \$0.67754		
	Block 5	0	600,000			\$0.64652		\$0.64735		
	Block 6	0	all additional			\$0.60879		\$0.60962		
42C Int T	TOTAL		40.000		64 555 55	60 4 4	\$14,921.25	ćo 4 -0	\$14,936.47	0.
42C Inter Trans	Block 1 Block 2	0	10,000 20,000	0.0	\$1,550.00	\$0.14295 \$0.12797		\$0.14378 \$0.12880		
	Block 3	0	20,000			\$0.12797 \$0.09813		\$0.12880		
	Block 4	0	100,000			\$0.07851		\$0.07934		
	Block 5	0	600,000			\$0.05235		\$0.05318		
	Block 6	0	all additional			\$0.01961	¢1 550 00	\$0.02044	61 550 00	
42I Inter Trans	TOTAL Block 1	830,413	10,000	0.0	\$1,550.00	\$0.14372	\$1,550.00	\$0.14455	\$1,550.00	0.
	Block 2	1,522,701	20,000	0.0	+ =,550.00	\$0.12865		\$0.12948		
	Block 3	1,166,628	20,000			\$0.09865		\$0.09948		
	Block 4	2,984,749	100,000			\$0.07894		\$0.07977		
	Block 5 Block 6	1,303,638 0	600,000 all additional			\$0.05263 \$0.01973		\$0.05346 \$0.02056		
	TOTAL	0	an additional				\$1,550.00		\$1,550.00	0.
43 Firm Trans		0	N/A	0.0	\$38,000.00	\$0.00578	\$38,000.00	\$0.00661	\$38,000.00	0.
42 Interr Trans		0	N/A	0.0	\$38,000.00	\$0.00521	\$38,000.00	\$0.00604	\$38,000.00	0.
43 Interr Trans	and 42	uctomore man at a	oco domend -	argor at	notric rote and	acad on Mar	DV For			
ntentionally blank							. FUI			
ntentionally blank 1] Rate Schedule 41	entation	demand charges a								
ntentionally blank			ire not included		0113 101 11030 3	encourcon				
ntentionally blank 1] Rate Schedule 41 onvenience of pres 2] Residential curre 3] Proposed rates in	ent bill as o nclude the	of April 1, 2023 e effect of removin	ig the current S	chedule 215 adj	ustment and a	pplying the p				
ntentionally blank 1] Rate Schedule 41 onvenience of pres 2] Residential curre	ent bill as o nclude the	of April 1, 2023 e effect of removin	ig the current S	chedule 215 adj	ustment and a	pplying the p				

57	Direct inputs	per talli	per failit		
98					
99	Rates in summary			Column A	

NW Natural Rates & Regulatory Affairs 2023-2024 PGA Filing - Washington: September Filing Summary of Deferred Accounts

							Total		
						Estimated	Estimated		
			Sep-Oct		Estimated	Interest	Amount for	Amounts	Amounts
		Balance	Estimated	Sep-Oct	Balance	During	(Refund) or	Excluded from	Included in
	Account	8/31/2023	Activity	Interest	10/31/2023	Amortization	Collection	PGA Filing	PGA Filing
	Α	В	С	D	E	F	G	Н	I
					E = sum B thru D	8.02%	G = E + F		
37	151887 DEFER WA EE AUDIT	15,694	0	0	15,694				
38		15,694	0	0	15,694	690	16,384		16,384

Company:	Northwest Natural Gas Company
State:	Oregon
Description:	Defer WA EE Audit
Account Number:	151887

Debit (Credit)

	Month/Year	Note	Deferral	Transfers nterest Rate	Interest	Activity	Balance
	(a)	(b)	(c)	(d) (e)	(f)	(g)	(h)
1	Beginning Ba	lance					0.00
85	Oct-22		378.00	4.91%	0.77	378.77	378.77
86	Nov-22 O	LD	0.00	0.00%		-	378.77
87	Nov-22 N	EW	0.00	4.91%	1.55	1.55	380.32
88	Dec-22		0.00	4.91%	1.56	1.56	381.88
89	Jan-23		0.00	6.31%	2.01	2.01	383.89
90	Feb-23		0.00	6.31%	2.02	2.02	385.91
91	Mar-23		0.00	6.31%	2.03	2.03	387.94
92	Apr-23		0.00	7.50%	2.42	2.42	390.36
93	May-23		0.00	7.50%	2.44	2.44	392.80
94	Jun-23		12,131.50	7.50%	40.37	12,171.87	12,564.67
95	Jul-23		2,931.00	8.02%	93.77	3,024.77	15,589.44
96	Aug-23		0.00	8.02%	104.19	104.19	15,693.63
97	Sep-23			8.02%	104.89	104.89	15,798.52
98	Oct-23			8.02%	105.59	105.59	15,904.11

1		<u>Amount</u>
2		
3	Temporary Increments	
4		
5	Removal of Current Temporary Increments	
6	Amortization of Industrial EE Audit	0
7		
8	Addition of Proposed Temporary Increments	
9	Amortization of Industrial EE Audit	17,130
10		
11		
12	TOTAL OF ALL COMPONENTS OF RATE CHANGES	\$17,130
13		
14		
15		
16	2022 Washington CBR Normalized Total Revenues	\$102,022,644
17		
18	Effect of this filing, as a percentage change	0.02%