

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UG-20 _____

NATURAL GAS WORKPAPERS

JOSEPH D. MILLER

REPRESENTING AVISTA CORPORATION

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

JDM-G-1

WORK PAPER REFERENCE	TOTAL	GEN SERVICE SCH. 101 & 102	LRG GEN SVC SCH. 111,112&116	EX LRG GEN SVC SCH. 121,122&126	INTERRUPTIBLE SCH. 131&132	TRANSPORT SCHEDULE 146	TRANSPORT SCHEDULE 148	TRANSPORT SCH 148 - WSU ANN. MINIMUM
<u>PRESENT BILL DETERMINANTS</u>								
<u>THERMS</u>								
JDM-G-8	BLOCK 1	83,030,623	6,558,198		220,000	8,146,142	24,245,810	10,933,465
JDM-G-8	BLOCK 2	54,532,868	17,521,410		285,403	8,282,125	6,193,304	
JDM-G-8	BLOCK 3		35,476,526		317,689	14,410,467	2,132,147	
JDM-G-8	BLOCK 4		738,873		170,108	2,975,781	5,419,126	
JDM-G-8	BLOCK 5		1,342,153			3,355,717	7,907,179	
	SUBTOTAL	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
	LOAD ADJUSTMENT							
	SUBTOTAL	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
	ADJUSTMENT TO ACTUAL							
	TOTAL BEFORE ADJUSTMENT	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
JDM-G-3	WEATHER & UNBILLED REV. ADJ.	(6,779,126)	(5,467,887)	(1,311,239)				
	TOTAL PROFORMA THERMS	287,415,989	132,095,604	60,325,922	993,200	37,170,232	45,897,566	10,933,465
JDM-G-8	TOTAL BILLS	1,984,339			24	456	48	12
JDM-G-8	TOTAL MINIMUM BILLS		37,254					
<u>PROPOSED BILL DETERMINANTS</u>								
<u>THERMS</u>								
	BLOCK 1	83,030,623	6,558,198	Sch 121/122 disc	220,000	8,146,142	24,245,810	10,933,465
	BLOCK 2	54,532,868	17,521,410	(UG-190334)	285,403	8,282,125	6,193,304	
	BLOCK 3		35,476,526		317,689	14,410,467	2,132,147	
	BLOCK 4		738,873		170,108	2,975,781	5,419,126	
	BLOCK 5		1,342,153			3,355,717	7,907,179	
	SUBTOTAL	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
	NET SHIFTING ADJUSTMENT							
	SUBTOTAL	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
	ADJUSTMENT TO ACTUAL							
	TOTAL BEFORE ADJUSTMENT	294,195,115	137,563,491	61,637,161	993,200	37,170,232	45,897,566	10,933,465
	WEATHER & UNBILLED REV. ADJ.	(6,779,126)	(5,467,887)	(1,311,239)				
	TOTAL PROFORMA THERMS	287,415,989	132,095,604	60,325,922	993,200	37,170,232	45,897,566	10,933,465
	TOTAL BILLS	1,984,339			24	456	48	12
	TOTAL MINIMUM BILLS		37,254					

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

JDM-G-2

WORK PAPER REFERENCE	TOTAL	GEN SERVICE SCHEDULE 101	LRG GEN SVC SCHEDULE 111	EX LRG GEN SVC SCHEDULE 121	INTERRUPTIBLE SCHEDULE 131	TRANSPORT SCHEDULE 146	TRANSPORT SCHEDULE 148	TRANSPORT SCH 148 - WSU ANN. MINIMUM
<u>PRESENT RATES</u>								
JDM-G-13/14		\$9.50				\$625.00	(1) \$200.00	(2) \$26,332.00
JDM-G-13/14			\$107.56					
JDM-G-13/14		41.035¢			27.008¢	10.494¢	2.800¢	1.000¢
JDM-G-13/14		53.333¢	36.159¢		21.681¢	9.336¢	4.500¢	
JDM-G-13/14			27.562¢		20.373¢	8.419¢	3.168¢	
JDM-G-13/14			23.517¢		18.203¢	7.785¢	2.500¢	
JDM-G-13/14			16.497¢			5.851¢	2.091¢	
		45.910¢	26.784¢		21.847¢	8.795¢		
<u>PROPOSED RATES</u>								
		\$9.50				\$625.00	\$200.00	\$26,332.00
			\$123.46					
		47.689¢			30.348¢	11.904¢	2.800¢	1.000¢
		61.980¢	40.414¢		24.363¢	10.591¢	4.500¢	
			30.806¢		22.893¢	9.550¢	3.168¢	
			26.285¢		20.454¢	8.831¢	2.500¢	
			18.438¢			6.637¢	2.091¢	
		53.354¢	29.936¢		24.549¢	9.977¢		

(1) Block 1 - Kaiser-Trentwood - workpaper JDM-G-19
 Block 2 - Lamb-Weston - workpaper JDM-G-21
 Block 3 - Mutual Materials - workpaper JDM-G-25
 Block 4 - Washington Potato - workpaper JDM-G-23
 Block 5 - Avista Electric generating facilities billed at 2.091 cents/therm (Sch. 148 floor)

(2) Monthly minimum / rate per therm - workpaper JDM-G-27

Note: Rates exclude Sch. 150 (Purch. Gas Cost Adj.)

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

JDM-G-3

WORK PAPER REFERENCE	TOTAL	GEN SERVICE SCHEDULE 101	LRG GEN SVC SCHEDULE 111	EX LRG GEN SVC SCHEDULE 121	INTERRUPTIBLE SCHEDULE 131	TRANSPORT SCHEDULE 146	TRANSPORT SCHEDULE 148	TRANSPORT SCH 148 - WSU ANN. MINIMUM
<u>PRESENT REVENUE</u>								
BASE TARIFF REVENUE								
BASIC CHARGE	\$19,461,805	\$18,851,221				\$285,000	\$9,600	\$315,984
MONTHLY/ANNUAL MINIMUM	4,033,601		4,007,040			26,561		
BLOCK 1	35,774,107	34,071,616			59,418	854,856	678,883	109,335
BLOCK 2	36,533,378	29,084,015			61,878	773,219		278,699
BLOCK 3	11,123,527		9,778,040		64,723	1,213,217		67,546
BLOCK 4	571,868		173,761		30,965	231,665		135,478
BLOCK 5	583,097		221,415			196,343		165,339
ANNUAL MINIMUM								
SUBTOTAL	\$108,081,382	\$82,006,851	\$20,515,823	\$0	\$216,983	\$3,580,861	\$1,335,545	\$425,319
NET SHIFTING ADJUSTMENT								
SUBTOTAL	\$108,081,382	\$82,006,851	\$20,515,823	\$0	\$216,983	\$3,580,861	\$1,335,545	\$425,319
ADJUST TO ACTUAL	0	0	0	0	0	0	0	0
TOTAL BASE TARIFF REVENUE	\$108,081,382	\$82,006,851	\$20,515,823	\$0	\$216,983	\$3,580,861	\$1,335,545	\$425,319
<u>ADJUSTMENT REVENUE</u>								
<u>UNBILLED REVENUE ADJUSTMENT</u>								
JDM-G-15 JDM-G-2/5/6	(991,272)	(1,042,511)	51,239					
		45.910¢	26.784¢			8.795¢		
	(\$464,895)	(\$478,619)	\$13,724	\$0				
	(991,272)	(1,042,511)	51,239	0				
	(\$464,895)	(\$478,619)	\$13,724					
<u>WEATHER NORMALIZATION ADJ</u>								
JDM-G-17 JDM-G-2/5/6	(5,787,854)	(4,425,376)	(1,362,478)					
		46.546¢	28.189¢					
	(\$2,443,908)	(\$2,059,842)	(\$384,066)	\$0				
TOTAL ADJUSTMENT REVENUE	(\$2,908,803)	(\$2,538,461)	(\$370,342)	\$0	\$0	\$0	\$0	\$0
TOTAL BASE TARIFF REVENUE	108,081,382	82,006,851	20,515,823	216,983	3,580,861	1,335,545	425,319	
TOTAL PRESENT REVENUE	\$105,172,579	\$79,468,390	\$20,145,481	\$216,983	\$3,580,861	\$1,335,545	\$425,319	

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

JDM-G-4

WORK PAPER REFERENCE	TOTAL	GEN SERVICE SCHEDULE 101	LRG GEN SVC SCHEDULE 111	EX LRG GEN SVC SCHEDULE 121	INTERRUPTIBLE SCHEDULE 131	TRANSPORT SCHEDULE 146	TRANSPORT SCHEDULE 148	TRANSPORT SCH 148 - WSU ANN. MINIMUM
PROPOSED REVENUE								
BASE TARIFF REVENUE								
BASIC CHARGE	\$19,461,805	\$18,851,221				\$285,000	\$9,600	\$315,984
MONTHLY/ANNUAL MINIMUM	4,629,510		4,599,379			30,131		
BLOCK 1	41,421,173	39,596,474			66,766	969,717	678,883	109,335
BLOCK 2	42,105,966	33,799,472	7,081,103		69,533	877,160	278,699	
BLOCK 3	12,445,373		10,928,899		72,729	1,376,200	67,546	
BLOCK 4	627,276		194,213		34,794	262,791	135,478	
BLOCK 5	635,524		247,466			222,719	165,339	
ANNUAL MINIMUM								
SUBTOTAL	\$121,326,627	\$92,247,166	\$23,051,059	\$0	\$243,821	\$4,023,717	\$1,335,545	\$425,319
NET SHIFTING ADJUSTMENT								
SUBTOTAL	\$121,326,627	\$92,247,166	\$23,051,059	\$0	\$243,821	\$4,023,717	\$1,335,545	\$425,319
ADJUST TO ACTUAL	0	0	0	0	0	0	0	0
TOTAL BASE TARIFF REVENUE	\$121,326,627	\$92,247,166	\$23,051,059	\$0	\$243,821	\$4,023,717	\$1,335,545	\$425,319
ADJUSTMENT REVENUE								
UNBILLED REVENUE ADJUSTMENT								
JDM-G-2/5/6								
BASE LOAD THERMS	(991,272)	(1,042,511)	51,239	0				
BASE LOAD RATE		53.354¢	29.936¢			9.977¢		
BASE LOAD REVENUE	(\$540,885)	(\$556,224)	\$15,339	\$0				
TOTAL UNBILLED THERM ADJ	(991,272)	(1,042,511)	51,239	0				
TOTAL UNBILLED REVENUE ADJ	(\$540,885)	(\$556,224)	\$15,339					
JDM-G-2/5/6								
WEATHER NORMALIZATION ADJ								
WEATHER-SENSITIVE THERMS	(5,787,854)	(4,425,376)	(1,362,478)	0				
WEATHER-SENSITIVE RATE		54.093¢	31.506¢					
WEATHER-SENSITIVE REVENUE	(\$2,823,099)	(\$2,393,831)	(\$429,268)	\$0				
OTHER ADJUSTMENTS								
TOTAL ADJUSTMENT REVENUE	(\$3,363,984)	(\$2,950,055)	(\$413,929)	\$0	\$0	\$0	\$0	\$0
TOTAL BASE TARIFF REVENUE	121,326,627	92,247,166	23,051,059	0	243,821	4,023,717	1,335,545	425,319
TOTAL PROPOSED REVENUE	\$117,962,643	\$89,297,111	\$22,637,130	\$0	\$243,821	\$4,023,717	\$1,335,545	\$425,319
TOTAL PRESENT REVENUE	\$105,172,579	\$79,468,390	\$20,145,481		\$216,983	\$3,580,861	\$1,335,545	\$425,319
TOTAL INCREASED REVENUE	\$12,790,064	\$9,828,721	\$2,491,649		\$26,837	\$442,857	\$0	\$0
PERCENT REVENUE INCREASE	12.16%	12.37%	12.37%		12.37%	12.37%	0.00%	0.00%

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

WORK PAPER REFERENCE	RATES	TOTAL THERMS	TOTAL REVENUE	BASE LOAD THERMS(1)	BASE LOAD REVENUE	WTHR-SENS. THERMS	WTHR-SENS. REVENUE
<u>PRESENT BASELOAD AND WEATHER-SENSITIVE RATE</u>							
SCHEDULE 101							
0-70 THERMS	41.035¢	83,030,623	\$34,071,616	15,874,712	\$6,514,188	67,155,911	\$27,557,428
OVER 70 THERMS	53.333¢	54,532,868	\$29,084,015	0	\$0	54,532,868	\$29,084,015
TOTAL		137,563,491	\$63,155,631	15,874,712	\$6,514,188	121,688,779	\$56,641,443
AVERAGE RATE			45.910¢		41.035¢		46.546¢

PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE

SCHEDULE 101							
0-70 THERMS	47.689¢	83,030,623	\$39,596,474	15,874,712	\$7,570,491	67,155,911	\$32,025,982
OVER 70 THERMS	61.980¢	54,532,868	\$33,799,472	0	\$0	54,532,868	\$33,799,472
TOTAL		137,563,491	\$73,395,945	15,874,712	\$7,570,491	121,688,779	65,825,454
AVERAGE RATE			53.354¢		47.689¢		54.093¢

(1) Base load per bill for Schedule 101 is shown on workpaper JDM-G-18 multiplied by total billings from JDM-G-1, or 13 X 1,984,339 = 15,874,712

PRESENT BASELOAD AND WEATHER-SENSITIVE RATE

SCHEDULE 111							
0-200 THERMS	0.000¢	6,558,198	\$0	6,558,198	\$0	0	\$0
201-1,000 THERMS	36.159¢	17,521,410	\$6,335,567	12,329,580	\$4,458,253	5,191,830	\$1,877,314
1001-10,000 THERMS	27.562¢	35,476,526	\$9,778,040	0	\$0	35,476,526	\$9,778,040
10,001-25,000 THERMS	23.517¢	738,873	\$173,761	0	\$0	738,873	\$173,761
OVER 25,000 THERMS	16.497¢	1,342,153	\$221,415	0	\$0	1,342,153	\$221,415
TOTAL		61,637,161	\$16,508,783	18,887,778	\$4,458,253	42,749,383	\$12,050,530
AVERAGE RATE			26.784¢		23.604¢		28.189¢

PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE

SCHEDULE 111							
0-200 THERMS	0.000¢	6,558,198	\$0	6,558,198	\$0	0	\$0
201-1,000 THERMS	40.414¢	17,521,410	\$7,081,103	12,329,580	\$4,982,876	5,191,830	\$2,098,226
1001-10,000 THERMS	30.806¢	35,476,526	\$10,928,899	0	\$0	35,476,526	\$10,928,899
10,001-25,000 THERMS	26.285¢	738,873	\$194,213	0	\$0	738,873	\$194,213
OVER 25,000 THERMS	18.438¢	1,342,153	\$247,466	0	\$0	1,342,153	\$247,466
TOTAL		61,637,161	\$18,451,680	18,887,778	\$4,982,876	42,749,383	13,468,804
AVERAGE RATE			29.936¢		26.381¢		31.506¢

(1) Base load per bill for Schedule 111 is shown on workpaper JDM-G-18 multiplied by total billings from JDM-G-1, or 522 X 37,254 = 18,887,778

WORK PAPER REFERENCE	RATES	TOTAL THERMS	TOTAL REVENUE	BASE LOAD THERMS(1)	BASE LOAD REVENUE	WTHR-SENS. THERMS	WTHR-SENS. REVENUE
<u>PRESENT BASELOAD AND WEATHER-SENSITIVE RATE</u>							
SCHEDULE 121							
0-500 THERMS	0.000¢	0	\$0	0	\$0	0	\$0

**AVISTA UTILITIES
WASHINGTON NATURAL GAS
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2019**

501-1,000 THERMS	0.000¢	0	\$0	0	\$0	0	\$0
1001-10,000 THERMS	0.000¢	0	\$0	0	\$0	0	\$0
10,001-25,000 THERMS	0.000¢	0	\$0	0	\$0	0	\$0
OVER 25,000 THERMS	0.000¢	0	\$0	0	\$0	0	\$0

TOTAL		0	\$0	0	\$0	0	\$0
AVERAGE RATE			#DIV/0!		#DIV/0!		#DIV/0!

PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE

SCHEDULE 121

0-500 THERMS	0.000¢	Sch 121/122 disc	#VALUE!	0	\$0	#VALUE!	#VALUE!
501-1,000 THERMS	0.000¢	(UG-190334)	#VALUE!	0	\$0	#VALUE!	#VALUE!
1001-10,000 THERMS	0.000¢		0	\$0	0	\$0	\$0
10,001-25,000 THERMS	0.000¢		0	\$0	0	\$0	\$0
OVER 25,000 THERMS	0.000¢		0	\$0	0	\$0	\$0

TOTAL		#VALUE!	#VALUE!	0	\$0	#VALUE!	#VALUE!
AVERAGE RATE			#VALUE!		#DIV/0!		#VALUE!

(1) Base load per bill for Schedule 121 is shown on workpaper JDM-G-18 multiplied by total billings from JDM-G-1, or 10,807 X 0 = 0

**AVISTA UTILITIES
WASHINGTON GAS
PRESENT & PROPOSED RATE OF RETURN BY RATE SCHEDULE
12 MONTHS ENDED DECEMBER 31, 2019**

	Total	Sch 101	Sch 111	Sch 131	Sch 146	
Total Rate Base	455,590,772	367,936,472	64,277,721	849,357	22,527,222	from COS
Revenue From Retail Rates	103,412,000	79,468,609	20,145,536	216,984	3,580,870	from COS
Other Operating Revenues	2,276,916	1,919,003	198,694	2,260	156,959	from COS
Total Revenues	<u>105,688,916</u>	<u>81,387,612</u>	<u>20,344,231</u>	<u>219,244</u>	<u>3,737,829</u>	
Total Operating Exp b4 conv items & taxes	75,107,383	64,529,618	7,981,200	101,582	2,494,983	
Revenue Related conversion items	4,543,440	3,491,479	885,101	9,533	157,327	from COS
Income Taxes	2,527,008	775,203	1,647,648	14,541	89,615	from COS
Total Expenses	<u>82,177,831</u>	<u>68,796,300</u>	<u>10,513,949</u>	<u>125,657</u>	<u>2,741,925</u>	from COS
Net Operating Income	23,511,085	12,591,312	9,830,281	93,587	995,905	
Present Rate of Return	5.16%	3.42%	15.29%	11.02%	4.42%	
Present Return Ratio	1.00	0.66	2.96	2.14	0.86	
Interest Expense	10,962,791	8,811,564	1,575,667	20,859	554,702	from COS
Proposed Misc Revenue Increase	0					
Proposed Rate Revenue Increase	<u>12,790,000</u>	12.37%				
Proposed Rev Increase	12,790,000					
Proposed Rate Revenues	116,202,000	12,790,000		0.003326		
incremental conversion expenses	560,000			0.002000		
incremental Income Taxes	2,568,000			0.038392		
Proposed Return	33,173,085	9,662,000		0.200819		
Proposed Return %	7.28%					
Allocation of incremental Misc Rev	0.00000	0.00000	0.00000	0.00000	0.00000	from COS
Target Relative Return	1.00	0.75	2.47	1.83	0.81	Input
Target Return %	7.28%	5.48%	18.00%	13.29%	5.91%	
Target Return (NOI b4 Interest)	33,173,085	20,160,672	11,568,482	112,897	1,331,034	-
Target Return after Interest Expense	22,210,295	11,349,108	9,992,816	92,039	776,332	-
Target Return b4 Income Taxes & Interest	38,268,093	22,764,140	13,860,819	134,011	1,509,124	-
Target Return b4 Misc Rev	35,991,177	20,845,137	13,662,125	131,751	1,352,165	-
Total Operating Exp b4 conv items & taxes	75,107,383	64,529,618	7,981,200	101,582	2,494,983	-
Conversion Items	5,103,440	3,921,787	994,211	10,718	176,723	-
Incremental Rate Revenue	12,790,000	9,827,933	2,492,000	27,067	443,000	-
Target Rate Revenue	116,202,000	89,296,542	22,637,536	244,051	4,023,870	-
Change in Rate Revenue	12.37%	12.37%	12.37%	12.47%	12.37%	
Incremental Rate Revenue - rounded	12,789,000	9,828,000	2,492,000	27,000	442,000	
Target Rate Revenue - rounded	116,203,000	89,297,000	22,638,000	244,000	4,024,000	
% movement towards unity		26.5%	25.0%	27.3%	-31.5%	
Billed Revenue	\$ 161,344,959	\$ 117,921,148	\$ 37,695,308	\$ 455,173	\$ 3,512,467	\$ 1,760,864
	7.9%	8.3%	6.6%	5.9%	12.6%	0.0%

**AVISTA UTILITIES
WASHINGTON GAS
USAGE & BILLINGS BY RATE SCHEDULE
12 MONTHS ENDED DECEMBER 31, 2019**

<u>Schedule 101/102</u>	<u>Total therms</u>	<u>Total Billings</u>	<u>0-70</u>	<u>>70</u>	<u>Total Therms</u>		
therms per Revenue Run(1)(2)	137,563,491	1,984,339	83,030,623	54,532,868	137,563,491		
					137,563,491		
<u>Schedule 111,112, 116 - Adjusted</u>	<u>0-200 thms</u>	<u>201-1000 thms</u>	<u>> 1000 thms</u>	<u>Total</u>	<u>Billings</u>		
therms by block(2)	6,545,798	17,475,325	35,005,100	59,026,224			
less: shifted to Sch 146	0	0	0	0			
Total therms by block	6,545,798	17,475,325	35,005,100	59,026,224			
Per Rev. Run(1)				59,026,224	37,192		
less: shifted to Sch. 146	0	0	0	0	0		
less: shifted from Sch. 121				0	0		
Total				<u>59,026,224</u>	37,192		
Adjust. To Actual				0			
<u>Schedule 111,112, 116</u>	<u>0-200 thms</u>	<u>201-1000 thms</u>	<u>1001-10000 thms</u>	<u>10000-25000 thms</u>	<u>>25000 thms</u>	<u>Total</u>	<u>Total Billings</u>
therms by block(2)	6,545,798	17,475,325	35,005,100			59,026,224	37,192
Sch 146 to Sch 112	2,200	8,800	99,000	120,033	233,247	463,280	11
Sch 112 to 146	(400)	(1,600)	(18,000)	(30,000)	(505,229)	(555,229)	(2)
Add: Sch 121/122	10,600	38,885	390,426	648,840	1,614,135	2,702,886	53
Total	6,558,198	17,521,410	35,476,526	738,873	1,342,153	61,637,161	37,254
<u>Schedule 121,122 (Discontinued)</u>	<u>0-500 thms</u>	<u>501-1000 thms</u>	<u>1001-10000 thms</u>	<u>10000-25000 thms</u>	<u>>25000 thms</u>	<u>Total</u>	<u>Total Billings</u>
therms by block(3)	25,080	24,405	390,426	648,840	1,614,135	2,702,886	53
less: Closed Acct	0	0	0	0	0	0	0
Total therms by block	25,080	24,405	390,426	648,840	1,614,135	2,702,886	53
Per Rev. Run(1)						2,702,886	
less: Acct closed (2)						0	
Total						2,702,886	
						0	
<u>Schedule 131,132</u>	<u>first 10000 thms</u>	<u>next 15000 thms</u>	<u>next 25000 thms</u>	<u>over 50000 thms</u>	<u>Total</u>	<u>Total Billings</u>	
billed/pro forma therms(3)	220,000	285,403	317,689	170,108	993,200	24	
<u>Schedule 146</u>	<u>first 20000 thms</u>	<u>next 30000 thms</u>	<u>next 250000 thms</u>	<u>next 200000 thms</u>	<u>over 500000 thms</u>	<u>Total</u>	<u>Total Billings</u>
billed/pro forma therms(4)	8,146,142	8,282,125	14,410,467	2,975,781	3,355,717	37,170,232	456
<u>Sch. 147-Interdepartmental(3)</u>	<u>Total therms</u>						
billed/pro forma therms	7,907,179						
<u>Sch. 148-Sp. Contracts(3)</u>	<u>Total therms</u>	<u>Total Billings</u>					
	24,245,810	12					
	6,193,304	12					
	2,132,147	12					
	<u>5,419,126</u>	<u>12</u>					
Total	37,990,387	48					
Wash. State Univ.	10,933,465	12					

(1) shown on workpaper JDM-G-11
(2) shown on workpaper JDM-G-9
(3) shown on workpaper JDM-G-10
(4) shown on workpaper JDM-G-9

Washington Gas Billing Determinants by Customer

ANNUAL USAGE, Sch 146
Washington

	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	12-mo ended Total	1st 20,000 thms/mo	20,000 50,000 thms/mo	50,000 300,000 thms/mo	300,000 500,000 thms/mo	500,000 Over thms/mo
136,935	141,948	159,270	130,278	94,746	87,324	76,742	74,037	68,716	77,822	111,113	127,723	1,286,654	240,000	360,000	686,654			
398,669	423,181	468,841	335,580	183,201	55,128	24,793	16,538	15,451	56,217	218,461	336,768	2,532,828	231,989	274,793	1,563,007	463,039		
37,257	52,126	36,826	37,633	46,107	37,644	32,545	40,575	33,469	33,325	46,682	36,861	471,050	240,000	228,924	2,126			
382	484	573	5,051	26,227	21,219	21,075	25,610	19,545	17,065	16,614	446	154,291	140,160	14,131				
29,538	30,403	28,813	27,145	22,205	19,961	17,479	17,867	17,684	19,793	25,426	26,854	283,168	232,784	50,384				
20,202	31,796	25,977	26,314	30,629	36,221	32,595	31,084	29,363	26,798	30,988	23,051	345,018	240,000	105,018				
29,967	32,083	25,075	24,766	27,138	26,647	20,182	20,039	25,217	28,222	34,257	26,439	320,032	240,000	80,032				
74,000	74,395	81,186	70,296	50,619	43,647	41,070	41,261	38,104	43,783	62,929	70,164	691,454	240,000	317,865	133,589			
32,070	46,618	38,888	35,668	35,882	34,597	32,442	30,124	29,699	32,206	36,719	26,680	411,593	240,000	171,593				
64,921	78,918	80,962	79,522	57,594	45,969	43,203	39,862	39,826	41,704	62,557	58,393	693,431	240,000	320,564	132,867			
38,338	35,621	37,272	96,729	81,151	77,504	77,651	71,234	67,184	59,614	62,615	57,594	762,507	240,000	321,231	201,276			
45,846	47,156	47,974	40,493	38,172	37,798	36,926	37,391	39,924	36,696	44,814	45,944	499,134	240,000	259,134				
-	-	-	-	25,026	35,256	37,434	40,410	50,098	73,747	49,717	24,865	336,553	160,000	152,708	23,845			
39,362	39,959	42,558	37,481	28,192	23,186	21,140	19,941	20,137	22,984	34,634	37,992	367,566	239,941	127,625				
-	-	-	-	161,846	65,006	35,790	165,048	12,685	40,856	1,800	-	483,031	114,485	126,646	241,900			
34,166	50,923	59,143	60,482	47,884	40,509	42,154	40,530	42,876	41,611	48,232	42,396	550,906	240,000	290,358	20,548			
102,373	110,964	121,017	100,555	71,153	55,263	51,689	52,604	51,689	58,976	88,943	98,010	963,710	240,000	360,000	363,710			
56,027	58,999	63,954	51,324	30,049	19,219	14,082	11,714	13,481	21,731	44,263	49,882	434,725	218,496	185,925	30,304			
779,708	822,615	755,701	843,724	798,636	756,480	767,901	737,026	748,772	781,364	774,559	789,231	9,355,717	240,000	360,000	3,000,000	2,400,000	3,355,717	
38,346	39,900	40,328	40,435	38,139	35,235	32,652	32,486	33,352	31,159	42,531	42,494	447,057	240,000	207,057				
8	7	7	6	401	58,667	105,137	41,700	69,061	37,544	62,153	16,413	391,104	136,842	159,244	95,018			
173,092	295,905	331,530	293,984	254,108	212,429	175,116	185,562	195,836	202,609	303,840	314,974	2,938,985	240,000	360,000	2,288,641	50,344		
74,758	137,307	123,889	127,713	126,078	113,500	101,178	92,298	107,440	106,624	128,187	121,364	1,360,336	240,000	360,000	760,336			
95,860	101,631	136,614	87,399	48,233	15,596	6,580	5,392	6,770	24,692	67,775	83,267	679,809	194,338	212,925	272,546			
38,467	42,528	37,634	40,994	48,410	49,537	47,507	53,423	52,081	49,722	53,917	51,693	565,913	240,000	314,799	11,114			
15,196	16,154	16,726	15,691	11,420	10,944	9,427	9,865	8,840	9,636	12,089	12,505	148,493	148,493					
64,337	68,698	75,769	55,838	32,071	15,671	10,009	5,501	6,010	13,549	42,664	53,454	443,571	190,740	184,735	68,096			
-	-	-	-	11,768	25,055	28,164	23,059	21,057	21,838	32,503	11,515	174,959	143,283	31,676				
308,651	313,647	335,334	279,028	180,272	124,150	108,119	99,647	97,858	128,582	228,917	272,415	2,476,620	240,000	360,000	1,818,988	57,632		
56,138	57,943	58,378	52,527	40,628	33,082	27,902	26,873	26,833	32,842	48,228	50,926	512,300	240,000	246,388	25,912			
50,834	52,265	58,117	44,232	25,371	12,586	7,623	4,152	3,759	11,002	31,101	39,657	340,699	179,122	150,361	11,216			
20,180	21,571	19,566	19,367	20,166	20,092	18,183	19,828	18,997	18,754	22,063	18,994	237,761	233,689	4,072				
83,677	81,422	87,580	59,692	13,623	2,331	17	-	-	2,464	46,894	90,804	468,504	138,435	176,894	153,175			
45,465	56,740	87,025	58,156	27,596	12,841	3,854	3,039	3,299	12,869	39,295	46,526	396,705	175,902	168,882	51,921			
271,736	275,120	304,766	253,635	183,371	160,654	144,340	145,387	143,497	156,428	214,443	232,377	2,485,754	240,000	360,000	1,880,988	4,766		
64,659	65,416	69,752	62,318	51,049	47,456	43,164	40,990	36,980	43,207	56,514	60,373	641,878	240,000	321,797	80,081			
54,886	55,088	57,957	49,719	35,468	23,816	18,528	14,997	13,918	25,961	43,631	47,769	441,738	227,443	196,364	17,931			
100,131	83,882	53,330	82,757	73,901	86,582	89,751	95,273	104,949	102,047	104,729	97,346	1,074,678	240,000	360,000	474,678			

Total WA Sch 146	3,476,182	3,843,413	3,968,332	3,626,532	3,078,530	2,578,802	2,404,144	2,412,367	2,314,931	2,546,043	3,376,797	3,544,159	<u>37,170,232</u>	8,146,142	8,282,125	14,410,467	2,975,781	3,355,717
Revenue Runs	3,545,563	3,917,949	4,055,434	3,694,851	3,110,140	2,599,480	2,420,678	2,424,503	2,325,589	2,566,070	3,210,635	3,207,391	37,078,283 #	1st 200	200 1,000	1,000 10,000	10,000 25,000	25,000 Over
	69,381	74,536	87,102	68,319	31,610	20,678	16,534	12,136	10,658	20,027	218,461	336,768	555,229	400	1,600	18,000	30,000	505,229
											52,299	-	463,280	2,200	8,800	99,000	120,033	233,247
														2,600	10,400	117,000	150,033	738,476
Total Sch 146	3,476,182	3,843,413	3,968,332	3,626,532	3,078,530	2,578,802	2,404,144	2,412,367	2,314,931	2,546,043	2,939,875	2,870,623	36,059,774	2,600	10,400	117,000	150,033	738,476
	38	38	38	38	38	38	38	38	38	38	38	38	38	1st	200	1,000	10,000	25,000

ANNUAL USAGE, Sch 121/122

Washington Discontinued in UG-190335	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	Total	200 thms/mo #VALUE!	1,000 thms/mo #VALUE!	10,000 thms/mo #VALUE!	25,000 thms/mo #VALUE!	Over thms/mo #VALUE!
Total WA Sch 121/122														#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!
Revenue Runs													0					
													0					
													0					
													0					
Total WA Sch 121/122	0	0	0	0	0	0	0	0	0	0	0	0	0					

ANNUAL USAGE, Sch 132

Washington	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
	72,561	82,354	62,156	45,351	40,061	28,786	28,243	23,806	-	84,296	54,159	-	521,773	100,000	148,806	167,441	105,525
	68,663	59,742	71,280	52,448	34,234	23,689	10,356	13,106	11,738	22,708	41,014	62,450	471,428	120,000	136,597	150,248	64,583
Revenue Runs	141,224	142,096	133,435	97,799	74,295	52,475	38,599	36,912	11,738	107,004	95,173	62,450	993,200	220,000	285,403	317,689	170,108
	141,224	142,096	133,435	97,799	74,295	52,474	38,600	36,912	11,738	107,004	95,173	62,450	993,200				
Total WA Sch 132	141,224	142,096	133,435	97,799	74,295	52,474	38,600	36,912	11,738	107,004	95,173	62,450	993,200				993,200
	0	0	0	0	0	0	0	0	0	0	0	0	0				

ANNUAL USAGE, Sch 148

Washington	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
	2,327,028	2,165,034	2,118,541	2,272,185	1,984,568	1,866,186	1,809,837	1,872,170	1,899,436	1,909,441	1,901,257	2,120,127	24,245,810				
	522,394	568,799	508,451	273,898	537,508	571,198	556,999	532,355	536,866	520,901	562,339	501,596	6,193,304				
	188,660	186,906	175,067	195,356	178,676	175,167	168,457	175,314	171,206	168,075	172,900	176,363	2,132,147				
	488,805	547,793	301,654	485,201	400,777	483,711	453,723	447,677	442,839	450,425	449,474	467,047	5,419,126				
	1,381,050	1,361,028	985,387	1,313,866	881,821	660,073	521,533	479,531	463,738	629,185	1,084,806	1,171,447	10,933,465				
Total WA Sch 148	4,907,937	4,829,560	4,089,100	4,540,506	3,983,350	3,756,335	3,510,549	3,507,047	3,514,085	3,678,027	4,170,776	4,436,580	48,923,852				
Revenue Runs	4,907,937	4,829,560	4,089,100	4,540,506	3,983,350	3,756,335	3,510,549	3,507,047	3,514,085	3,678,027	4,170,776	4,436,580	48,923,852				

ANNUAL USAGE, Sch 147

Washington	Jan 19	Feb 19	Mar 19	Apr 19	May 19	Jun 19	Jul 19	Aug 19	Sep 19	Oct 19	Nov 19	Dec 19	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
	311,015	144,011	442,892	580,076	64,826	121,440	283,349	514,383	1,055,696	554,725	1,038,228	690,584	5,801,225				
	68,149	32,701	140,837	234,196	4,149	-	86,502	135,504	349,953	259,234	396,799	397,930	2,105,954				
Total WA Sch 147	379,164	176,712	583,729	814,272	68,975	121,440	369,851	649,887	1,405,649	813,959	1,435,027	1,088,514	7,907,179				
Revenue Runs	379,164	176,712	583,729	814,272	68,975	121,440	369,851	649,887	1,405,649	813,959	1,435,027	1,088,514	7,907,179				

	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
	THERMS BLOCK 1	4,907,937	4,829,560	4,089,100	4,540,506	3,983,350	3,756,335	3,510,549	3,507,047	3,514,085	3,678,027	4,170,776	4,436,580	48,923,852
	Total for 0148	4,907,937	4,829,560	4,089,100	4,540,506	3,983,350	3,756,335	3,510,549	3,507,047	3,514,085	3,678,027	4,170,776	4,436,580	48,923,852
0158	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
	RIDER 158	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total for 0158	-	-	-	-	-	-	-	-	-	-	-	-	-
0158A	RIDER 158	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total for 0158A	-	-	-	-	-	-	-	-	-	-	-	-	-
0199	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total for 0199	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for WA		38,321,290	39,606,695	41,934,493	26,555,668	17,274,677	11,960,997	10,919,037	10,627,666	11,796,796	18,609,989	29,007,477	37,580,332	294,195,115

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Gas Revenue Usage Report by Location Twelve Months Ended for Report Date : '12/31/2019'

Revenue C Jurisdiction:WA

Source Id	Period	Rate Schedule Num	Unbilled Usage												
			201901	201902	201903	201904	201905	201906	201907	201908	201909	201910	201911	201912	12 Month Total
REVUNBL	101		11,324,273	12,810,504	7,364,449	4,172,084	1,901,745	1,321,131	1,180,635	1,257,274	2,486,278	7,641,625	11,025,713	10,375,003	72,860,714
	111		4,053,424	4,671,541	2,618,736	1,797,571	899,949	949,948	835,623	936,252	1,802,326	3,448,041	4,267,717	3,794,161	30,075,289
	112		9,263	13,099	5,399	4,303	2,686	2,543	2,586	3,326	6,886	11,606	12,872	9,733	84,302
	121		92,544	99,707	50,802	41,565	31,269	(17,856)	36,777	64,354	87,993	138,127	147,373	104,730	877,385
	122		31,328	32,516	21,399	16,621	11,629	11,217	13,607	14,723	25,141	30,949	208,686	275,164	692,980
	146		3,917,947	3,900,871	3,691,957	3,110,199	2,599,480	2,420,689	2,422,964	2,325,581	2,566,202	3,210,986	3,206,337	3,156,615	36,529,828
	147		-	-	-	-	-	-	-	-	-	-	-	-	-
	148		4,829,560	3,966,821	4,540,256	4,029,134	3,756,335	3,510,549	3,507,079	3,514,085	3,678,155	4,165,893	4,436,580	4,791,048	48,725,495
	Total for REVUNBL-G		24,258,339	25,495,059	18,292,998	13,171,477	9,203,093	8,198,221	7,999,271	8,115,595	10,652,981	18,647,227	23,305,278	22,506,454	189,845,993
REVUNBL	101		(11,417,514)	(11,324,273)	(12,810,504)	(7,364,449)	(4,172,084)	(1,901,745)	(1,321,131)	(1,180,635)	(1,257,274)	(2,486,278)	(7,641,625)	(11,025,713)	(73,903,225)
	111		(3,956,196)	(4,053,424)	(4,671,541)	(2,618,736)	(1,797,571)	(899,949)	(949,948)	(835,623)	(936,252)	(1,802,326)	(3,448,041)	(4,267,717)	(30,237,324)
	112		(10,281)	(9,263)	(13,099)	(5,399)	(4,303)	(2,686)	(2,543)	(2,586)	(3,326)	(6,886)	(11,606)	(12,872)	(84,850)
	121		(134,000)	(92,544)	(99,707)	(50,802)	(41,565)	(31,269)	17,856	(36,777)	(64,354)	(87,993)	(138,127)	(147,373)	(906,655)
	122		(32,072)	(31,328)	(32,516)	(21,399)	(16,621)	(11,629)	(11,217)	(13,607)	(14,723)	(25,141)	(30,949)	(208,686)	(449,888)
	146		(3,542,437)	(3,917,947)	(3,900,871)	(3,691,957)	(3,110,199)	(2,599,480)	(2,420,689)	(2,422,964)	(2,325,581)	(2,566,202)	(3,210,986)	(3,206,337)	(36,915,650)
	147		-	-	-	-	-	-	-	-	-	-	-	-	-
	148		(4,907,937)	(4,829,560)	(3,966,821)	(4,540,256)	(4,029,134)	(3,756,335)	(3,510,549)	(3,507,079)	(3,514,085)	(3,678,155)	(4,165,893)	(4,436,580)	(48,842,384)
	Total for REVUNBL-GR		(24,000,437)	(24,258,339)	(25,495,059)	(18,292,998)	(13,171,477)	(9,203,093)	(8,198,221)	(7,999,271)	(8,115,595)	(10,652,981)	(18,647,227)	(23,305,278)	(191,339,976)
Total for WA			257,902	1,236,720	(7,202,061)	(5,121,521)	(3,968,384)	(1,004,872)	(198,950)	116,324	2,537,386	7,994,246	4,658,051	(798,824)	(1,493,983)

	101	(93,241)	1,486,231	(5,446,055)	(3,192,365)	(2,270,339)	(580,614)	(140,496)	76,639	1,229,004	5,155,347	3,384,088	(650,710)	(1,042,511)	
	111	96,210	621,953	(2,060,505)	(822,261)	(899,239)	49,856	(114,282)	101,369	869,634	1,650,435	820,942	(476,695)	(162,583)	
	121	(42,200)	8,351	(60,022)	(14,015)	(15,288)	(49,537)	57,023	28,693	34,057	55,942	186,983	23,835	213,822	
	146	375,510	(17,076)	(208,914)	(581,758)	(510,719)	(178,791)	2,275	(97,383)	240,621	644,784	(4,649)	(49,722)	(385,822)	
	147	-	-	-	-	-	-	-	-	-	-	-	-	-	
	148	(78,377)	(862,739)	573,435	(511,122)	(272,799)	(245,786)	(3,470)	7,006	164,070	487,738	270,687	354,468	(116,889)	
Total			257,902	1,236,720	(7,202,061)	(5,121,521)	(3,968,384)	(1,004,872)	(198,950)	116,324	2,537,386	7,994,246	4,658,051	(798,824)	(1,493,983)

101-121 (991,272)

AVISTA UTILITIES
 Schedule Summaries & Shortcuts
 State of Washington - Natural Gas
 Effective October 1, 2020

**Includes effect of Schedules 150, 155, 175, 189, 191, 192 and 194.
 Excludes effect of Schedules 158.**

	Base Rate	PGA Sch 150	PGA Amortization Sch 155	Decoupling Sch 175	DSM Sch 191	2015 GRC Rebate Sch 194	LIRAP Sch 192	Billing Rate	LOW INC DISC RATE Sch 189	Adjusted Billing Rate
Schedule 101 - General Service - Firm										
Basic Charge	\$9.50							\$9.50		
First 70 Therms	\$0.41035	\$0.26150	\$0.00429	(\$0.00685)	\$0.03028	(\$0.02141)	\$0.02378	\$0.70194		
Over 70 Therms	\$0.53333	\$0.26150	\$0.00429	(\$0.00685)	\$0.03028	(\$0.02141)	\$0.02378	\$0.82492		
Schedule 102 - Fixed-Income Senior & Disabled Residential Service										
Basic Charge	\$9.50							\$9.50		\$9.50
First 70 Therms	\$0.41035	\$0.26150	\$0.00429	(\$0.00685)	\$0.03028	(\$0.02141)	\$0.02378	\$0.70194	(\$0.48469)	\$0.21725
Over 70 Therms	\$0.53333	\$0.26150	\$0.00429	(\$0.00685)	\$0.03028	(\$0.02141)	\$0.02378	\$0.82492	(\$0.48469)	\$0.34023
Schedule 111 - Large General Service - Firm										
If consumption is less than or equal to 200 therms:										
Minimum charge of	\$107.56							\$107.56		
plus # of therms used times		\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.29095		
If consumption is greater than 200 therms:										
First 200 therms	\$0.53780	\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.82875		
201-1,000 therms	\$0.36159	\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.65254		
1,000-10,000 therms	\$0.27562	\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.56657		
10,000-25,000 therms	\$0.23517	\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.52612		
Over 25,000 therms	\$0.16497	\$0.25181	\$0.01085	\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.45592		
Schedule 112 - Large General Service - Firm										
If consumption is less than or equal to 200 therms:										
Minimum charge of	\$107.56							\$107.56		
plus # of therms used times		\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.28010		
If consumption is greater than 200 therms:										
First 200 therms	\$0.53780	\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.81790		
201-1,000 therms	\$0.36159	\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.64169		
1,000-10,000 therms	\$0.27562	\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.55572		
10,000-25,000 therms	\$0.23517	\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.51527		
Over 25,000 therms	\$0.16497	\$0.25181		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.44507		
Schedule 116 - Transportation Large General Service										
If consumption is less than or equal to 200 therms:										
Minimum charge of	\$107.56							\$107.56		
plus # of therms used times		\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.02885		
If consumption is greater than 200 therms:										
First 200 therms	\$0.53780	\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.59665		
201-1,000 therms	\$0.36159	\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.39044		
1,000-10,000 therms	\$0.27562	\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.30447		
10,000-25,000 therms	\$0.23517	\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.26402		
Over 25,000 therms	\$0.16497	\$0.00056		\$0.00419	\$0.01626	(\$0.01210)	\$0.01994	\$0.19382		
Schedule 131 - Interruptible Service										
First 10,000 therms	\$0.27008	\$0.21892		\$0.00419	\$0.01132	(\$0.00792)	\$0.01750	\$0.51409		
10,001-25,000 therms	\$0.21681	\$0.21892		\$0.00419	\$0.01132	(\$0.00792)	\$0.01750	\$0.46082		
25,001-50,000 therms	\$0.20373	\$0.21892		\$0.00419	\$0.01132	(\$0.00792)	\$0.01750	\$0.44774		
Over 50,000 therms	\$0.18203	\$0.21892		\$0.00419	\$0.01132	(\$0.00792)	\$0.01750	\$0.42604		
Annual Minimum charge is 250,000 therms minus actual annual usage times								\$0.27544		
Schedule 132 - Interruptible Service										
First 10,000 therms	\$0.27008	\$0.21892			\$0.01132	(\$0.00792)	\$0.01750	\$0.50990		
10,001-25,000 therms	\$0.21681	\$0.21892			\$0.01132	(\$0.00792)	\$0.01750	\$0.45663		
25,001-50,000 therms	\$0.20373	\$0.21892			\$0.01132	(\$0.00792)	\$0.01750	\$0.44355		
Over 50,000 therms	\$0.18203	\$0.21892			\$0.01132	(\$0.00792)	\$0.01750	\$0.42185		
Annual Minimum charge is 250,000 therms minus actual annual usage times								\$0.27544		
Schedule 146 - Transportation Service For Customer Owned Gas										
Basic Charge	\$625.00							\$625.00		
First 20,000 therms	\$0.10494	\$0.00056				(\$0.00353)	\$0.00113	\$0.10310		
20,001-50,000 therms	\$0.09336	\$0.00056				(\$0.00353)	\$0.00113	\$0.09152		
50,001-300,000 therms	\$0.08419	\$0.00056				(\$0.00353)	\$0.00113	\$0.08235		
300,001-500,000 therms	\$0.07785	\$0.00056				(\$0.00353)	\$0.00113	\$0.07601		
Over 500,000 therms	\$0.05851	\$0.00056				(\$0.00353)	\$0.00113	\$0.05667		
Annual Minimum charge is 250,000 therms minus actual annual usage times								\$0.09336		
Schedule 148										
Monthly Rate	\$200.00									
Plus:			Minimum \$0.02091							
			Maximum \$0.05025							

WUTC Docket No. UE-20 _____
 Normalized Usage by Month
 Twelve Months Ended December 31, 2019
 WASHINGTON GAS SYSTEM

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
Revenue Run Billed Usage													
Small Service Schedule 101	21,191,020	21,932,388	23,941,573	11,880,515	6,587,647	3,080,580	2,535,596	2,142,554	2,443,888	7,606,581	13,945,184	20,275,965	137,563,491
Large Service Schedule 111/112	7,925,020	8,382,074	8,896,948	5,362,314	3,301,881	2,366,159	1,935,589	1,732,053	1,984,702	3,670,233	5,701,043	7,768,208	59,026,224
Extra Large Service Schedule 121/122	231,362	225,916	234,273	165,411	148,389	(15,471)	108,175	134,709	111,145	168,114	449,639	741,224	2,702,886
Interrupt Service Schedule 131/132	141,224	142,096	133,435	97,799	74,295	52,474	38,600	36,912	11,738	107,004	95,173	62,450	993,200
Transport Service Schedule 146	3,545,563	3,917,949	4,055,434	3,694,851	3,110,140	2,599,480	2,420,678	2,424,503	2,325,589	2,566,070	3,210,635	3,207,391	37,078,283
Special Contract Transport	5,287,101	5,006,272	4,672,829	5,354,778	4,052,325	3,877,775	3,880,400	4,156,934	4,919,734	4,491,986	5,605,803	5,525,094	56,831,031
Total Revenue Run Billed Usage	38,321,290	39,606,695	41,934,493	26,555,668	17,274,677	11,960,997	10,919,037	10,627,666	11,796,796	18,609,989	29,007,477	37,580,332	294,195,115
Adjustments to Revenue Runs													
Schedule 111/112 Adjustments													-
Schedule 121/122 Adjustments													-
Schedule 146 Adjustments													-
Special Contract Adjustments													-
Total Adjustments to Revenue Runs	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Unbilled Usage													
Small Service Schedule 101	(93,241)	1,486,231	(5,446,055)	(3,192,365)	(2,270,339)	(580,614)	(140,496)	76,639	1,229,004	5,155,347	3,384,088	(650,710)	(1,042,511)
Large Service Schedule 111/112	96,210	621,953	(2,060,505)	(822,261)	(899,239)	49,856	(114,282)	101,369	869,634	1,650,435	820,942	(476,695)	(162,583)
Extra Large Service Schedule 121/122	(42,200)	8,351	(60,022)	(14,015)	(15,288)	(49,537)	57,023	28,693	34,057	55,942	186,983	23,835	213,822
Interrupt Service Schedule 131/132	-	-	-	-	-	-	-	-	-	-	-	-	-
Transport Service Schedule 146	-	-	-	-	-	-	-	-	-	-	-	-	-
Special Contract Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Unbilled Usage	(39,231)	2,116,535	(7,566,582)	(4,028,641)	(3,184,866)	(580,295)	(197,755)	206,701	2,132,695	6,861,724	4,392,013	(1,103,570)	(991,272)
Weather Adjustment													
Small Service Schedule 101	955,672	(5,579,988)	(3,103,187)	647,284	1,858,877	637,272	323,996	486,920	(901,358)	(2,606,962)	(188,880)	3,044,978	(4,425,376)
Large Service Schedule 111/112	297,166	(1,736,842)	(965,494)	233,134	655,578	226,858	112,785	168,868	(312,423)	(912,947)	(66,251)	938,940	(1,360,628)
Extra Large Service Schedule 121/122	407	(2,419)	(1,952)	480	1,349	(469)	165	310	(585)	(1,553)	(137)	2,554	(1,850)
Interrupt Service Schedule 131/132	-	-	-	-	-	-	-	-	-	-	-	-	-
Transport Service Schedule 146	-	-	-	-	-	-	-	-	-	-	-	-	-
Special Contract Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Weather Adjustment	1,253,245	(7,319,249)	(4,070,633)	880,898	2,515,804	863,661	436,946	656,098	(1,214,366)	(3,521,462)	(255,268)	3,986,472	(5,787,854)
Normalized Test Year Usage													
Small Service Schedule 101	22,053,451	17,838,631	15,392,331	9,335,434	6,176,185	3,137,238	2,719,096	2,706,113	2,771,534	10,154,966	17,140,392	22,670,233	132,095,604
Large Service Schedule 111/112	8,318,396	7,267,185	5,870,949	4,773,187	3,058,220	2,642,873	1,934,092	2,002,290	2,541,913	4,407,721	6,455,734	8,230,453	57,503,013
Extra Large Service Schedule 121/122	189,569	231,848	172,299	151,876	134,450	(65,477)	165,363	163,712	144,617	222,503	636,485	767,613	2,914,858
Interrupt Service Schedule 131/132	141,224	142,096	133,435	97,799	74,295	52,474	38,600	36,912	11,738	107,004	95,173	62,450	993,200
Transport Service Schedule 146	3,545,563	3,917,949	4,055,434	3,694,851	3,110,140	2,599,480	2,420,678	2,424,503	2,325,589	2,566,070	3,210,635	3,207,391	37,078,283
Special Contract Transport	5,287,101	5,006,272	4,672,829	5,354,778	4,052,325	3,877,775	3,880,400	4,156,934	4,919,734	4,491,986	5,605,803	5,525,094	56,831,031
Total Normalized Test Year Usage	39,535,304	34,403,981	30,297,278	23,407,925	16,605,615	12,244,363	11,158,228	11,490,465	12,715,125	21,950,251	33,144,222	40,463,234	287,415,989
	13.8%	12.0%	10.5%	8.1%	5.8%	4.3%	3.9%	4.0%	4.4%	7.6%	11.5%	14.1%	100.0%

12.2019	Total	January	February	March	April	May	June	July	August	September	October	November	December
Normal DDH	6,513	1,103	915	775	542	298	137	26	30	158	534	863	1,132
Actual DDH	6,748	1,052	1,218	938	500	180	96	8	3	209	697	875	972
DDH Adjustment to Normal	-235	51	-303	-163	42	118	41	18	27	-51	-163	-12	160
Rate Group													
WA Res Sched 101	-3,700,254	801,385	-4,675,837	-2,602,571	556,636	1,601,925	548,638	273,995	411,853	-761,951	-2,247,062	-162,745	2,555,480
No of Cust	153,136	152,262	149,533	154,716	150,948	154,620	152,408	153,138	153,459	150,304	157,012	154,466	154,765
Usage/DDH	0.1032	0.1032	0.1032	0.1032	0.0878	0.0878	0.0878	0.0994	0.0994	0.0994	0.0878	0.0878	0.1032
WA Com Sched 101	-717,319	152,508	-894,162	-495,086	89,553	253,875	87,609	49,082	73,744	-136,943	-355,590	-25,826	483,917
No of Cust	12,130	12,092	11,933	12,282	12,060	12,169	12,086	12,119	12,139	11,934	12,339	12,173	12,230
Usage/DDH	0.2473	0.2473	0.2473	0.2473	0.1768	0.1768	0.1768	0.2250	0.2250	0.2250	0.1768	0.1768	0.2473
WA Ind Sched 101	-7,803	1,779	-9,989	-5,530	1,095	3,077	1,025	919	1,323	-2,464	-4,310	-309	5,581
No of Cust	72	73	69	71	72	72	69	74	71	70	73	71	73
Usage/DDH	0.4778	0.4778	0.4778	0.4778	0.3622	0.3622	0.3622	0.6903	0.6903	0.6903	0.3622	0.3622	0.4778
WA Res Sched 111	-57,062	12,788	-73,462	-41,549	9,869	27,635	9,699	0	0	0	-39,712	-2,716	40,386
No of Cust	299	302	292	307	299	298	301	300	299	289	310	288	304
Usage/DDH	0.8303	0.8303	0.8303	0.8303	0.7859	0.7859	0.7859	0.0000	0.0000	0.0000	0.7859	0.7859	0.8303
WA Com Sched 111	-1,271,012	277,033	-1,620,507	-900,058	218,130	613,516	212,234	112,785	168,868	-312,423	-854,006	-62,094	875,510
No of Cust	2,723	2,722	2,680	2,767	2,726	2,729	2,717	2,732	2,727	2,671	2,750	2,716	2,742
Usage/DDH	1.9956	1.9956	1.9956	1.9956	1.9052	1.9052	1.9052	2.2935	2.2935	2.2935	1.9052	1.9052	1.9956
WA Ind Sched 111	-32,554	7,345	-42,873	-23,887	5,135	14,427	4,925	0	0	0	-19,229	-1,441	23,044
No of Cust	57	57	56	58	57	57	56	57	55	57	55	56	57
Usage/DDH	2.5267	2.5267	2.5267	2.5267	2.1449	2.1449	2.1449	0.0000	0.0000	0.0000	2.1449	2.1449	2.5267
WA Com Sched 121	-1,850	407	-2,419	-1,952	480	1,349	-469	165	310	-585	-1,553	-137	2,554
No of Cust	4	4	4	6	6	6	-6	4	5	5	5	6	8
Usage/DDH	1.9956	1.9956	1.9956	1.9052	1.9052	1.9052	2.2935	2.2935	2.2935	1.9052	1.9052	1.9052	1.9956
ID Res Sched 101	-1,686,777	365,709	-2,172,055	-1,170,125	279,093	785,066	272,541	121,366	182,508	-345,273	-1,096,977	-80,907	1,172,277
No of Cust	76,580	76,042	76,018	76,126	76,205	76,297	76,231	76,446	76,639	76,758	77,178	77,319	77,696
Usage/DDH	0.0943	0.0943	0.0943	0.0943	0.0872	0.0872	0.0872	0.0882	0.0882	0.0882	0.0872	0.0872	0.0943
ID Com Sched 101	-339,365	74,206	-436,987	-234,741	52,726	148,462	51,112	23,506	35,159	-66,128	-206,428	-15,104	234,852
No of Cust	7,724	7,723	7,655	7,644	7,735	7,752	7,681	7,741	7,719	7,686	7,803	7,755	7,791
Usage/DDH	0.1884	0.1884	0.1884	0.1884	0.1623	0.1623	0.1623	0.1687	0.1687	0.1687	0.1623	0.1623	0.1884
ID Ind Sched 101	-4,448	983	-5,730	-3,024	692	1,944	663	405	608	-1,082	-2,635	-183	2,911
No of Cust	52	54	53	52	53	53	52	52	52	49	52	49	51
Usage/DDH	0.3568	0.3568	0.3568	0.3568	0.3109	0.3109	0.3109	0.4331	0.4331	0.4331	0.3109	0.3109	0.3568
ID Res Sched 111	-17,944	3,704	-22,415	-11,948	2,846	7,639	2,654	2,154	3,232	-6,104	-10,650	-784	11,728
No of Cust	108	107	109	108	112	107	107	108	108	108	108	108	108
Usage/DDH	0.6787	0.6787	0.6787	0.6787	0.6050	0.6050	0.6050	1.1082	1.1082	1.1082	0.6050	0.6050	0.6787

	12.2019	Total	January	February	March	April	May	June	July	August	September	October	November	December
ID Com Sched 111		-473,020	100,581	-597,131	-321,701	71,301	199,878	69,244	36,644	54,684	-103,215	-280,790	-20,612	318,097
No of Cust		1,363	1,362	1,361	1,363	1,358	1,355	1,351	1,365	1,358	1,357	1,378	1,374	1,373
Usage/DDH			1,4480	1,4480	1,4480	1,2501	1,2501	1,2501	1,4914	1,4914	1,4914	1,2501	1,2501	1,4480
ID Ind Sched 111		-22,521	5,051	-29,221	-16,145	3,227	9,801	3,065	0	0	0	-13,200	-947	15,848
No of Cust		38	38	37	38	37	40	36	40	37	37	39	38	38
Usage/DDH			2,6065	2,6065	2,6065	2,0765	2,0765	2,0765	0,0000	0,0000	0,0000	2,0765	2,0765	2,6065
WA subtotal		-5,787,854	1,253,245	-7,319,249	-4,070,633	880,898	2,515,804	863,661	436,946	656,098	-1,214,366	-3,521,462	-255,268	3,986,472
ID subtotal		-2,544,075	550,234	-3,263,539	-1,757,684	409,885	1,152,790	399,279	184,075	276,191	-521,802	-1,610,680	-118,537	1,755,713
Summarize by Schedule														
WA 101		-4,425,376	955,672	-5,579,988	-3,103,187	647,284	1,858,877	637,272	323,996	486,920	-901,358	-2,606,962	-188,880	3,044,978
WA 111		-1,360,628	297,166	-1,736,842	-965,494	233,134	655,578	226,858	112,785	168,868	-312,423	-912,947	-66,251	938,940
WA 121		-1,850	407	-2,419	-1,952	480	1,349	-469	165	310	-585	-1,553	-137	2,554
ID 101		-2,030,590	440,898	-2,614,772	-1,407,890	332,511	935,472	324,316	145,277	218,275	-412,483	-1,306,040	-96,194	1,410,040
ID 111		-513,485	109,336	-648,767	-349,794	77,374	217,318	74,963	38,798	57,916	-109,319	-304,640	-22,343	345,673

Weather Sensitivity Regression Summary for January 2009 through 2018

Adj R ²	Dependent Variable	Summer Mo Heating Jul, Aug, Sep	Shoulder Mo Heating Apr, May, Jun, Oct, Nov	Winter Mo Heating Dec, Jan, Feb, Mar	Usage/Cust Base Load	Usage/Cust 2018 Low	Durbin Watson Test Result
Washington Gas							
0.991	WR101	0.0994	0.0878	0.1032	9	13	No Autocorrelation
0.983	WC101	0.2250	0.1768	0.2473	0	11	No Autocorrelation
0.963	WI101	0.6903	0.3622	0.4778	-38	5	Corrected with AR(1)
0.990	WT101	0.1142	0.0953	0.1153	8	13	No Autocorrelation
0.959	WR111	0.0000	0.7859	0.8303	488	320	Corrected with AR(1)
0.992	WC111	2.2935	1.9052	1.9956	483	562	Corrected with AR(1),(2),(3)
0.858	WI111	0.0000	2.1449	2.5267	2,246	2,196	Corrected with AR(1),(2)
0.991	WT111	2.2429	1.7790	1.8827	507	568	Corrected with AR(1),(2),(3)
0.992	WC121	2.2935	1.9052	1.9956	483	562	combined with 111
0.991	WT121	2.2429	1.7790	1.8827	507	568	combined with 111
Idaho Gas							
0.995	IR101	0.0882	0.0872	0.0943	9	13	Corrected with AR(1),(2)
0.981	IC101	0.1687	0.1623	0.1884	0	10	Corrected with AR(1),(2)
0.965	II101	0.4331	0.3109	0.3568	-27	6	Corrected with AR(1),(3)
0.993	IT101	0.0995	0.0929	0.1042	7	12	Corrected with AR(1),(2)
0.973	IR111	1.1082	0.6050	0.6787	231	229	Corrected with AR(1)
0.977	IC111	1.4914	1.2501	1.4480	592	635	Corrected with AR(1),(2)
0.671	II111	0.0000	2.0765	2.6065	4,133	4,076	Corrected with AR(1),(2)
0.977	IT111	1.4853	1.2863	1.4262	636	692	Corrected with AR(1)

Dependent Variable Name Code

1st letter

W = Washington Jurisdiction

I = Idaho Jurisdiction

2nd letter

R = Residential Class

C = Commercial Class

I = Industrial Class

T = Total Schedule

Numerical reference

Rate Schedule

Prep by: _____ 1st Review: _____

Contract No. M-12866

NATURAL GAS TRANSPORTATION SERVICE AGREEMENT**Rate Schedule 148**

THIS AGREEMENT is entered into by and between Avista Corporation dba Avista Utilities (hereinafter referred to as "Avista"), and Kaiser Aluminum & Chemical Corporation (hereinafter referred to as "Customer"), hereinafter sometimes referred to individually, as a "Party", and collectively, as the "Parties."

RECITALS:

WHEREAS, Customer owns and operates an aluminum fabrication plant, commonly known as the "Trentwood Works", located near the community of Trentwood in Spokane County, Washington (hereinafter referred to as the "Plant");

WHEREAS, Customer has determined that it has an economic alternative to taking natural gas transportation service from Avista, under Rate Schedule 146;

WHEREAS, Customer and Avista are Parties to an Agreement dated August 8, 1991, amended by written agreement dated September 28, 1993, (the "Current Agreement") for natural gas transportation service to Customer's Plant under the Natural Gas Transportation Service Schedule 148 authorized by the Washington Utilities and Transportation Commission; and

WHEREAS, because of numerous changes to Avista's Natural Gas Transportation Service Agreement language as well as amendments to the Current Agreement which combined language for the Trentwood Works Plant with conditions applicable to a Schedule 148 agreement for natural gas transportation service to Customer's previously owned "Mead Works" plant, the Parties desire to terminate the Current Agreement and enter into a new agreement for natural gas transportation service to Customer's Plant under Schedule 148.

NOW, THEREFORE, in consideration of the covenants and promises contained herein, the Parties agree as follows:

1. **Definitions**. Where used in this Agreement, the following terms shall have the following meanings:
 - 1.1. "**Agreement**" means this Natural Gas Transportation Service Agreement.
 - 1.2. "**Gas**" or "**Natural Gas**" means any mixture of hydrocarbons, or of hydrocarbons and combustible gases, in a gaseous state, consisting essentially of methane.
 - 1.3. "**Customer-Owned Gas**" means Natural Gas procured directly by Customer, or through an agent or broker acting on Customer's behalf, and delivered to Avista through its interconnections with Northwest Pipeline Corp.
 - 1.4. "**Northwest Pipeline**" or "**Pipeline**" means Northwest Pipeline Corp., which is engaged in the transportation of Natural Gas in interstate commerce.
 - 1.5. "**Avista Receipt Point(s)**", for Natural Gas transported pursuant to this Agreement, are those points at which Avista's Distribution System interconnects with the transmission facilities of Northwest Pipeline, at the meter station known as Spokane Mead.
 - 1.6. "**Delivery Point**", for Natural Gas transported or delivered to the Plant pursuant to this Agreement, is the point at which Customer's gas main interconnects with the outlet side of Avista's gas meter, located on Customer's Plant premises approximately 1,400 feet east of Evergreen Street and approximately 1,400 feet south of Trent Avenue.

Contract No. M-12866

- 8.2 Imbalance Penalties. Customer shall pay any applicable penalties for nomination imbalances, and entitlement overtakes or undertakes in accordance with Avista's applicable tariffs.
9. Rates and Charges. Each Month during the term of this Agreement, Customer shall pay to Avista, the fixed charge set forth below, as well as applicable transportation charges for all Gas delivered to the Plant during the preceding Month at the Delivery Point, as determined by Avista's meter. Avista's charges for Gas delivered by Avista hereunder shall be the sum of the following rates and charges:
- 9.1 Monthly Fixed Rate. The monthly fixed rate shall be as set forth in the then current Schedule 148, or its successor, approved by the Commission and in effect at the time Natural Gas is delivered hereunder, which monthly fixed rate is currently \$200 per month.
- 9.2 Avista Transportation Charges. All Gas delivered to Customer's Plant shall be subject to a transportation charge of \$0.028 per therm for all Customer-Owned Gas delivered to the Delivery Point through Avista's Distribution System.
- 9.3 Other Charges, Assessments, or Refunds. The aforementioned rates and charges for Natural Gas transportation may be adjusted from time to time to include all applicable taxes, penalties, assessments and other adjustments, including any surcharges or refunds, provided for herein and in the Pipeline's tariffs for Gas service which are filed and allowed to go into effect. Customer shall be responsible for any end-use taxes levied on Customer-Owned Gas transported by Avista.
- 9.4 Late Charges. If Customer fails to pay Avista the entire amount of any bill within thirty (30) days following the mailing date of such bill (the "Due Date"), Avista shall have the right to charge Customer a late charge on the unpaid balance, from the Due Date until paid in full. In the event Customer has a good-faith dispute regarding a billing by Avista, Customer shall not be assessed interest on the disputed portion of the bill until resolution of the matter and the Parties shall utilize their best efforts to resolve the matter. Upon resolution, Avista shall deliver to Customer a revised bill, and Customer shall have thirty (30) days to pay such revised bill. Customer shall not be assessed interest on the revised bill unless Customer fails to pay such revised bill within thirty (30) days of its receipt.
10. Capacity Release. Customer agrees to execute a capacity release ("Capacity Release") posted by Avista on Northwest Pipeline's Electronic Bulletin Board for firm capacity. Under such Capacity Release, Customer shall become a replacement shipper on the Pipeline and agrees to pay all fixed, variable and other charges in effect at the time of delivery of Customer-owned Gas for transportation on the Pipeline's Gas Transmission System to the Pipeline's delivery point at Spokane, WA. Such Capacity Release shall be considered a firm release of capacity; provided, however, that because the source contract for such Capacity Release includes both north and south receipt points on the Pipeline's Transmission System, Avista shall have the authority to recall Customer's Capacity Release in order to comply with any Operational Flow Order ("OFO") from the Pipeline. The volume available under this Capacity Release shall be for usage of 6,450 Dth per Day. The Receipt Points on Northwest Pipeline will be Sumas, WA, for 3,740 Dth per Day and Opal, WY, for 2,710 Dth per Day, and the Northwest Pipeline Delivery Point will be the meter station known as Spokane-Mead for 6,450 Dth per Day.
11. Transportation and Billing by Others. Except as otherwise set forth in this Agreement, Avista shall not be responsible for Customer's billing arrangements for the purchase of Customer-Owned Gas, or for the transportation thereof by others, including Northwest Pipeline. Customer shall be responsible for sales, use and other taxes associated with the acquisition and/or transportation, by others, of Customer-Owned Gas.

Avista Corp.
East 1411 Mission Ave.
Spokane, WA 99202



Natural Gas Transportation Service Agreement
Schedule 148

This Natural Gas Transportation Service Agreement ("Agreement") is entered into between Avista Corporation ("Avista"), a Washington corporation, and ConAgra Foods Lamb Weston Inc. ("Customer"), a Delaware corporation (individually, as a "Party" and collectively, as the "Parties").

Background and Purpose: Avista currently provides natural gas service to Customer's potato products processing plant ("Plant") located in Connell, Washington, under a Natural Gas Interruptible Transportation Service Agreement dated August 20, 1993 (the "Dated Agreement") for natural gas service under Tariff Rate Schedule 148 ("Schedule 148") which terminates at 12:01AM on January 1, 2012. Customer desires to continue to receive natural gas transportation service at the Plant, and Avista agrees to provide such service to the Plant, subject to the terms of this Agreement. Therefore, the Parties agree as follows:

1. **Definitions.** Where used in this Agreement, the following terms will apply:
 - 1.1. **Avista Receipt Point(s).** Those points where Avista's distribution system interconnects with the natural gas transmission facilities of Northwest Pipeline.
 - 1.2. **Commission.** The Washington Utilities and Transportation Commission.
 - 1.3. **Customer-Owned Gas.** Natural gas procured directly by Customer or through an agent acting on Customer's behalf.
 - 1.4. **Day.** A period of 24 consecutive hours coincident with Northwest Pipeline's Day which currently begins at 7:00 a.m. Pacific Prevailing Time ("PPT") on any given date.
 - 1.5. **Delivery Point.** The point where Customer's gas service pipe interconnects with the outlet side of Avista's gas service meter located at the outlet side of the meter/regulator set.
 - 1.6. **Month.** A period coincident with Northwest Pipeline's Month which currently begins at 7:00 a.m. PPT on the first Day of a calendar month and ends at 7:00 a.m. PPT on the first Day of the next succeeding calendar month.
 - 1.7. **Northwest Pipeline.** The natural gas interstate pipeline engaged in the transportation of natural gas in interstate commerce.
2. **Term of Agreement.** This Agreement will become effective when executed by both Parties ("Effective Date") and remain in effect for an initial term of ten years ("Initial Term"). After the Initial Term, this Agreement will continue in effect from year to year unless terminated with 120 days' prior written notice given by either Party.
3. **Delivery and Transportation of Gas.** Subject to the delivery of Customer-Owned Gas to Avista's Receipt Point(s) and subject to the orders, rules and regulations of governmental authorities, agencies and courts having jurisdiction over: (i) Customer's acquisition of Customer-Owned Gas, (ii) Avista, and/or (iii) Northwest Pipeline, Avista will deliver such gas to Customer's Delivery Point on a firm basis, subject to the provisions set forth in Section 7 below.
4. **Metering**
 - 4.1 **Metering Equipment.** The volume of gas delivered each Month will be measured by metering equipment installed, owned and maintained by Avista. Customer will be responsible for protecting the meter from damages including, but not limited to, vandalism, vehicle traffic, water, snow and/or ice, maintain open-air surrounding the meter, and provide unobstructed access to such meter. At its sole expense, Customer must provide and maintain in proper

Contract No. M-16171

Avista Corp.
East 1411 Mission Ave.
Spokane, WA 99202

AVISTA

data as Avista may require to schedule its operation and to determine its system loads and requirements.

7. Transportation Entitlement or Interruption.

7.1 Avista may entitle or interrupt transportation of Customer-Owned Gas on Avista's system whenever Avista, in its sole judgment, determines that it does not have adequate system capacity to meet all firm gas service requirements in accordance with the "Contingency Plan for Firm Service Gas Curtailment" contained in Avista's tariffs approved by the Commission. Volumes of Customer-Owned Gas not delivered due to operational constraints on Avista's system will be held by Avista as an imbalance and delivered to Customer as soon as operationally feasible. Avista shall not be liable for damages occasioned by any entitlement or interruption of gas service under this Agreement.

7.2 To the extent practicable, Avista shall give Customer (or Customer's agent) advance notice of a pending entitlement or interruption of the transportation of Customer-Owned Gas on Avista's system. Upon notice to Customer of a pending entitlement or interruption, any gas taken by Customer under this Agreement because of Customer's failure to comply with an Avista entitlement order will be regarded as an unauthorized overrun and, in addition to the rates applicable for natural gas transportation service under this Agreement, Avista will charge Customer the applicable penalty for overrun set forth in Avista's then current Schedule 146. Payment of an overrun penalty will not, under any circumstances, be considered as granting Customer the right to take unauthorized overrun gas or exclude any other remedies that may be available to Avista.

8. Balancing by Customer. During each Day and for each Month, Customer (or its agent) shall exercise its best efforts to schedule gas to be delivered to Avista's Receipt Point(s) by Northwest Pipeline in an amount equal to Customer's usage as metered at the Delivery Point. In the event Customer's scheduled deliveries to Avista's Receipt Point(s) do not equal Customer's usage metered at the Delivery Point, Customer shall be responsible for imbalance charges or penalties as set forth in Avista's then current Schedule 148.

9. Applicable Rates, Rules and Regulations. Natural gas will be supplied, received and paid for in accordance with and subject to the Orders of the Commission and Avista's Rates, Rules and Regulations on file with the Commission and in effect at the time natural gas is delivered, including Schedule 148 and all other applicable rate schedules set forth in such Schedule. Avista's tariffs may be accessed on Avista's website at www.avistautilities.com.

10. Rate Schedule Changes. In the event Avista has in effect other filed rate schedule(s) in the State of Washington applicable to the same class of service and for the same terms as expressed in this Agreement, Customer may elect to have such rate schedule substituted for the rate schedule applicable under this Agreement; provided, however, that any such rate schedule changes may not be made more often than once in any consecutive 12-month period.

11. Payments. Each Month, Avista will bill Customer for natural gas transported and delivered to the Plant during the preceding Month as measured by Avista's meter(s). Customer shall pay to Avista the sum billed on or before the "Due Date" (defined in Section 11.3 below). Customer's bill will include a Customer Charge and charges for gas delivered by Avista including:

11.1 Avista's Transportation Charge. The charge for all gas delivered to the Plant under this Agreement, for the first ten-year term will be \$0.045 per therm; provided, however, that Customer's minimum monthly charge will be calculated in accordance with Schedule 148. At least 180 days prior to the tenth anniversary date of the Effective Date and each subsequent ten-year period thereafter, the Parties shall mutually agree to a transportation charge for such

Contract No. M-16171

AVISTA Contract No. M-10282

NATURAL GAS TRANSPORTATION SERVICE AGREEMENT

THIS AGREEMENT, dated as of Aug 1, 2002, is entered into by and between Avista Corporation dba Avista Utilities (hereinafter referred to as "AVISTA"), and Oregon Potato Company (hereinafter referred to as "Customer"), hereinafter sometimes referred to individually, as a "Party", and collectively, as the "Parties."

WITNESSETH:

WHEREAS, Customer owns and operates a potato processing plant located at W. 1900 1st Ave, in the City of Warden, in Grant County, Washington (hereinafter referred to as the "Plant");

WHEREAS, Customer and AVISTA are Parties to an Agreement dated April 22, 1998, for natural gas transportation service to Customer's Plant under Natural Gas Transportation Service Schedule 146 authorized by the Washington Utilities and Transportation Commission;

WHEREAS, Customer and AVISTA desire to enter into a new agreement for natural gas transportation service to Customer's Plant under a Special Contract between the Parties.

NOW, THEREFORE, in consideration of the covenants and promises contained herein, the Parties agree as follows:

1. **Definitions.** Where used in this Agreement, the following terms shall have the following meanings:
 - 1.1. "Agreement" means this Natural Gas Transportation Service Agreement.
 - 1.2. "Customer-Owned Gas" means Natural Gas procured directly by Customer, or through an agent or broker acting on Customer's behalf and delivered to AVISTA through its interconnections with Northwest Pipeline.
 - 1.3. "Northwest Pipeline" means Northwest Pipeline, which is engaged in the transportation of Natural Gas in interstate commerce.
 - 1.4. "Daily" means once each Day. If something is to be done "Daily," it should be completed by no later than the end of each Day.
 - 1.5. "Gas" or "Natural Gas" means any mixture of hydrocarbons, or of hydrocarbons and combustible gases, in a gaseous state, consisting essentially of methane.
 - 1.6. "Delivery Point" for Natural Gas transported or delivered to the Plant pursuant to this Agreement is the point at which Customer's Gas pipe interconnects with the outlet side of AVISTA's Gas meter station located on the Plant premises.
 - 1.7. "Month" means a period coincident with the Northwest Pipeline's Month, which currently begins at 7:00 a.m. Pacific Clock Time on the first Day of a calendar month and ends at 7:00 a.m. Pacific Clock Time on the first Day of the next succeeding calendar month.
 - 1.8. "Day" means a period of 24 consecutive hours coincident with Northwest Pipeline's day, which currently begins at 7:00 a.m. Pacific Clock Time on any given date.

AVISTA Contract No. M-10282

not equal the volume of Gas nominated by Customer and delivered to AVISTA, at AVISTA's Receipt Points, each Day and for each billing cycle, Customer shall pay any applicable charges for such disparities in volumes in accordance with the applicable tariffs of AVISTA.

9. Rates and Charges. Each Month during the term of this Agreement, Customer shall pay transportation charges to AVISTA for all Gas delivered to the Delivery Point during the preceding Month as determined by AVISTA's meter(s). The charges for Gas delivered by AVISTA hereunder shall be as described in section 9.1 below for the entire term of this Agreement.

9.1 Distribution Transportation Charges: Beginning January 1, 2003, the transportation charges for all therms transported to Customer's Plant shall be based on Customer's prior calendar year's usage:

9.1.1 If Customer's annual usage for the prior calendar year is 4,000,000 therms or greater, Customer's rate for all therms in the following calendar year shall be \$0.025 per therm.

9.1.2 If Customer's annual usage for the prior calendar year falls between 3,500,000 therms and 3,999,999 therms, Customer's rate for all therms in the following calendar year shall be \$0.0286 per therm.

9.1.3 If Customer's annual usage for the prior calendar year falls between 3,000,000 therms and 3,499,999 therms, Customer's rate for all therms in the following calendar year shall be \$0.0330 per therm.

9.1.4 If Customer's annual usage for the prior calendar year falls below 3,000,000 therms, Customer's rate for all therms in the following calendar year shall be \$0.0400 per therm.

Customer's transportation charge for service from the effective date of this Agreement until December 31, 2002, shall be \$0.0330 per therm.

9.2 Annual Minimum Charge. The annual minimum charge for each calendar year under this Agreement shall be \$100,000.00.

9.3 Other Charges, Assessments, or Refunds. The aforementioned rates and charges for Natural Gas transportation may be adjusted from time to time to include all applicable taxes, penalties, assessments and other adjustments, including any surcharges or refunds, provided for herein and in Northwest Pipeline's tariffs for Gas service which are filed and allowed to go into effect. Customer shall be responsible for any end-use taxes levied on Customer-Owned Gas transported by AVISTA.

9.4 Late Charges. If Customer fails to pay AVISTA the entire amount of any bill within thirty (30) days following the mailing date of such bill (the "Due Date"), AVISTA shall have the right to charge Customer a late charge on the unpaid balance, from the Due Date until paid in full. In the event Customer has a good-faith dispute regarding a billing by AVISTA, Customer shall not be assessed interest on the disputed portion of the bill until resolution of the matter and Customer and AVISTA shall utilize their best efforts to resolve the matter. Upon resolution, AVISTA shall deliver to Customer a revised bill, and Customer shall have thirty (30) days to pay such revised bill. Customer shall not be

ORIGINAL

NATURAL GAS TRANSPORTATION SERVICE AGREEMENT

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CONTRACT SERVICES

This Natural Gas Transportation Service Agreement ("Agreement") is made and entered into this 1st day of October, 1998, by and between The Washington Water Power Company ("Company"), a Washington corporation, and Mutual Materials ("Customer"), a Washington corporation, hereinafter sometimes referred to singly as "Party" and in the plural as the "Parties,"

WITNESSETH:

WHEREAS, the Customer owns and operates a brick and tile manufacturing plant (hereinafter referred to as "Plant") located at S. 10627 State Route 27, Mica, Washington, 99023; and,

WHEREAS, the Customer and the Company desire to enter into a new agreement for the transportation of Customer-owned Gas, whereby the Company, during the entire term of this Agreement, will be the sole and exclusive provider of local Gas transportation services to the Customer on the Company's distribution system, under the terms and conditions of the Company's Schedule 148 - High Volume Transportation Service or its successors.

NOW, THEREFORE, in consideration of the covenants and promises contained herein, the Parties agree as follows:

1. Definitions. Where used in this Agreement, the following terms shall have the following meanings:
 - 1.1. "Agreement" means this Natural Gas Transportation Service Agreement.
 - 1.2. "Customer-Owned Gas" means Natural Gas procured directly by the Customer, or through an agent or broker acting on the Customer's behalf.
 - 1.3. "PG&EGTNW" means PG&E Gas Transmission Northwest, which is engaged in the transportation of Natural Gas in interstate commerce.
 - 1.4. "Daily" means once each Day. If something is to be done "Daily," it should be completed by no later than the end of each Day.
 - 1.5. "Gas" or "Natural Gas" means any mixture of hydrocarbons, or of hydrocarbons and combustible gases, in a gaseous state, consisting essentially of methane.
 - 1.6. "Delivery Point" for Natural Gas transported or delivered to the Customer pursuant to this Agreement is the point at which the Customer's Gas pipe interconnects with the outlet side of the Company's Gas meter station, located adjacent to the Company's high pressure Gas transmission line.
 - 1.7. "Month" means a period coincident with the PG&EGTNW's Month, which currently begins at 7:00 a.m. Pacific Clock Time on the first Day of a calendar month and ends at 7:00 a.m. Pacific Clock Time on the first Day of the next succeeding calendar month.
 - 1.8. "Day" means a period of 24 consecutive hours coincident with PG&EGTNW's Day, which currently begins at 7:00 a.m. Pacific Clock Time on any given date.

WWP Contract No. MG-07318

Customer may require pursuant to this Agreement, including peak day requirements, together with such other operating data as the Company may require in order to schedule its operation and determine its system loads and requirements.

7. Transportation Curtailment or Interruption. The Company may curtail or interrupt the transportation of Customer-owned Gas on its system when the Company has been notified of such curtailment or interruption by PG&EGTNW, or in the case of a Force Majeure event, as defined in Section 17 hereof. Such curtailment or interruption shall be made in accordance with the Company's "Contingency Plan for Firm Service Gas Curtailment," contained in its general service tariffs on file with the Commission. Any volumes of Customer-owned Gas unable to be delivered due to operational constraints on the Company during such period of interruption or curtailment shall be held as an imbalance and delivered to the Customer as soon as operationally practicable.

To the extent practical, the Company will give the Customer advance oral or written notice of a pending curtailment or interruption of the interruptible transportation of Customer-owned Gas on the Company's system. Upon notice of curtailment or interruption by the Company to the Customer, any Gas used by the Customer in excess of that amount authorized by the Company will be subject to the applicable penalties contained in the Company's general service tariffs. The Company makes no guarantee against, and shall not be liable for, interruptions of PG&EGTNW's transportation of Gas moved hereunder, or failure of PG&EGTNW to deliver such Gas to the Company Receipt Points.

8. Balancing By Customer. The Customer or its agent shall exercise its best efforts to schedule Gas which it causes to be delivered to the Company at the Company's Receipt Points in such a manner that the Customer's usage of Gas, as metered at the Delivery Point, equals the amount of Gas so delivered to the Company by PG&EGTNW during each Day and for each Monthly billing cycle. Customer shall be responsible for any imbalance charges or penalties incurred by the Company to the extent that the Customer's nomination imbalances contributed to the imposition of such imbalance charges and penalties.
9. Rates and Charges. Each Month during the term of this Agreement, the Customer will pay transportation charges to the Company for all Gas delivered to the Delivery Point during the preceding Month as determined by the Company's meter. The charges for Gas delivered by the Company hereunder shall be the sum of the following rates and charges:
- 9.1. Company Transportation Charges. The Customer will pay to the Company two hundred dollars (\$200.00) per month plus a rate of ~~(\$0.03168)~~ (3.168 cents) per therm for all therms used up to 2,500,000 therms per year and \$0.021 (2.1 cents) for all therms used in excess of 2,500,000 therms per year for Customer-owned Gas transported on the Company's distribution system.
- 9.2. Other Charges, Assessments, or Refunds. The aforementioned rates and charges for Natural Gas transportation may be adjusted from time to time to include all applicable taxes, assessments and other adjustments, including any surcharges or refunds, provided for herein and in the Company's tariffs for Gas service, which are filed and allowed to go into effect. The Company shall use its best efforts to notify the Customer of proposed changes to such tariffs.
- 9.3. Late Charges: If Customer fails to pay the Company the entire amount of any bill within thirty (30) days following the mailing date of such bill (the "due

EXHIBIT 1Avista Contract No. M-10672
WSU Contract No. 15021**NATURAL GAS TRANSPORTATION SERVICE AGREEMENT**
Rate Schedule 148

THIS AGREEMENT is made and entered into by and between Avista Corporation, a corporation organized and existing under the laws of the State of Washington, dba Avista Utilities (hereinafter referred to as "AVISTA"), and the Washington State University Board of Regents, an institution of higher education and an agency of the State of Washington (hereinafter referred to as the "Customer"), hereinafter sometimes referred to individually, as a "Party" and collectively, as the "Parties".

WITNESSETH:

WHEREAS, Customer and AVISTA are Parties to an Agreement dated October 31, 1996, for natural gas distribution transportation service to Customer's Pullman college campus (hereinafter referred to as the "Campus") under Schedule 146; and

WHEREAS, Customer and AVISTA desire to terminate the aforementioned agreement and enter into a new agreement for natural gas distribution transportation service to Customer's Campus under Schedule 148;

NOW, THEREFORE, in consideration of the covenants and promises contained herein, the Parties agree as follows:

1. **Definitions.** Where used in this Agreement, the following terms shall have the following meanings:
 - 1.1. **"Agreement"** means this Natural Gas Transportation Service Agreement.
 - 1.2. **"Customer-Owned Gas"** means Natural Gas procured directly by Customer, or through an agent or broker acting on Customer's behalf and delivered to AVISTA through its interconnections with Northwest Pipeline.
 - 1.3. **"Northwest Pipeline"** means Northwest Pipeline Corporation, or its successor, which is engaged in the transportation of Natural Gas in interstate commerce.
 - 1.4. **"Daily"** means once each Day. If something is to be done "Daily," it should be completed by no later than the end of each Day.
 - 1.5. **"Gas" or "Natural Gas"** means any mixture of hydrocarbons, or of hydrocarbons and combustible gases, in a gaseous state, consisting essentially of methane.
 - 1.6. **"Delivery Points"** for Natural Gas transported or delivered to the Campus pursuant to this Agreement shall be as follows:
 - 1.6.1 Delivery Point A shall be the point at which Customer's Gas pipe interconnects with the outlet side of AVISTA's Gas service meter located on the Campus premises at the power plant ("Power Plant") on College Ave, near the west side of the Campus.
 - 1.6.2 Delivery Point B shall be the point at which Customer's Gas pipe interconnects with the outlet side of AVISTA's Gas service meter located on the Campus premises at the steam plant ("Steam Plant") at Grimes Way and Olympic on the east side of the Campus.

Contract No. M-10672

**“Revised Exhibit D”
to Amendment No. 1
Capital Payment Schedule
Related to Extension of Facilities**

Customer will pay AVISTA a fixed monthly capital payment charge (“Capital Payment”) during the entire Initial Term of the Agreement, or until such time as Customer provides a lump-sum payment for AVISTA’s remaining capital investment costs, as set forth in Section 10.5 of the Agreement.

AVISTA will bill, and Customer agrees to pay, the Capital Payments described herein, beginning with the first billing period following the In-Service Date.

Customer’s Capital Payments will be \$26,132 per month for Customer’s responsibility of \$2.1 million, calculated based on AVISTA’s total revenue requirement associated with the actual installed costs.

Cost Over-runs in Construction of Facilities:

Pursuant to the Agreement, AVISTA is responsible for all actual costs, up to \$2.31 million, as well as cost over-runs above the \$2.31 million, except for higher than estimated easements, permits or rights-of-way costs, or cost associated with changes in routing for the new distribution line, as described in “Exhibit D” to the Agreement.

Customer’s pro rata share (90.5%) of the portion of the costs above \$2.31 million associated with higher than estimated easements, permits or rights-of-way, and routing changes are reflected in “Revised Exhibit D Attachment 1” and “Revised Exhibit D Attachment 2”, attached hereto.

Annual Minimum Charge:

Assuming no other taxes, fees or charges become applicable, the annual minimum charge under AVISTA’s current Schedule 148 Rate Schedule will be:

Annual Minimum Usage Charge (8,000,000 x \$0.01)	\$ 80,000	
Fixed Charge (\$200 x 12 months)	2,400	
Capital Payments Charge (\$26,132 x 12 months)	<u>313,584</u>	} ÷ 12 = 26,332
Total	\$395,984	

WASHINGTON NATURAL GAS SYSTEM
Rate Design Program Monthly Results
Schedule 101/102

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
Block 1	10,524,232	10,061,692	10,255,779	9,188,098	5,512,459	2,696,907	2,255,273	1,950,476	2,251,413	4,822,544	8,249,954	10,362,256	78,131,083
Block 2	13,383,249	7,346,777	8,516,900	3,625,933	608,786	191,811	188,459	135,332	190,755	472,855	2,592,797	8,584,533	45,838,188
Total	23,907,481	17,408,469	18,772,679	12,814,031	6,121,245	2,888,718	2,443,732	2,085,808	2,442,168	5,295,399	10,842,751	18,946,789	123,969,271
Billed Customers	160,611	160,378	161,228	160,995	161,371	161,247	161,588	161,900	160,395	164,606	163,366	163,850	1,941,495
Block 1 Limit	11,242,770	11,226,460	11,285,960	11,265,960	11,295,970	11,287,290	11,311,160	11,333,000	11,227,650	11,522,420	11,437,020	11,469,500	135,904,650
Revenue Run Total	23,907,481	17,408,469	18,772,679	12,814,031	6,121,245	2,888,718	2,443,732	2,085,808	2,442,168	5,295,339	10,842,675	18,945,996	123,968,342
Difference	-	-	-	-	-	-	-	-	-	(60)	(76)	(793)	(929)

Block 1	-	-	-	-	-	-	-	-	-	(55)	(58)	(434)	(546)
Block 2	-	-	-	-	-	-	-	-	-	(5)	(18)	(359)	(383)
Total	-	-	-	-	-	-	-	-	-	(60)	(76)	(793)	(929)

Block 1	10,524,232	10,061,692	10,255,779	9,188,098	5,512,459	2,696,907	2,255,273	1,950,476	2,251,413	4,822,489	8,249,897	10,361,822	78,130,536
Block 2	13,383,249	7,346,777	8,516,900	3,625,933	608,786	191,811	188,459	135,332	190,755	472,849	2,592,779	8,584,174	45,837,806
Total	23,907,481	17,408,469	18,772,679	12,814,031	6,121,245	2,888,718	2,443,732	2,085,808	2,442,168	5,295,339	10,842,675	18,945,996	123,968,342

Schedule 111/112

Block 1	589,934	590,810	603,524	598,823	554,355	457,385	406,432	369,192	401,055	544,519	589,844	651,631	6,357,506
Block 2	2,084,775	1,987,648	2,037,283	1,803,319	1,207,256	735,033	625,182	560,486	636,511	1,024,197	1,602,247	2,217,998	16,521,936
Block 3	5,325,802	3,964,961	4,143,033	2,753,192	1,378,027	698,320	544,971	516,706	569,054	985,638	2,122,582	6,624,154	29,626,440
Total	8,000,512	6,543,419	6,783,841	5,155,334	3,139,638	1,890,738	1,576,585	1,446,384	1,606,620	2,554,354	4,314,673	9,493,783	52,505,881
Revenue Run Total	8,018,208	6,561,361	6,797,195	5,166,624	3,145,531	1,896,316	1,581,289	1,451,036	1,613,677	2,564,277	4,331,828	9,510,570	52,637,913
Difference	17,697	17,942	13,354	11,290	5,893	5,577	4,704	4,653	7,057	9,923	17,155	16,787	132,031

Block 1	1,305	1,620	1,188	1,311	1,040	1,349	1,213	1,188	1,762	2,115	2,345	1,152	17,589
Block 2	4,611	5,450	4,010	3,949	2,266	2,168	1,865	1,803	2,796	3,979	6,371	3,922	43,190
Block 3	11,780	10,872	8,156	6,029	2,586	2,060	1,626	1,662	2,499	3,829	8,439	11,713	71,252
Total	17,697	17,942	13,354	11,290	5,893	5,577	4,704	4,653	7,057	9,923	17,155	16,787	132,031

Block 1	591,239	582,430	604,712	600,135	555,396	458,735	407,645	370,379	402,817	546,634	592,189	652,784	6,375,094
Block 2	2,089,387	1,993,098	2,041,294	1,807,268	1,209,522	737,201	627,047	562,289	639,307	1,028,176	1,608,618	2,221,920	16,565,127
Block 3	5,337,583	3,975,833	4,151,189	2,759,221	1,380,614	700,380	546,597	518,368	571,553	989,467	2,131,021	6,635,867	29,697,692
Total	8,018,208	6,561,361	6,797,195	5,166,624	3,145,531	1,896,316	1,581,289	1,451,036	1,613,677	2,564,277	4,331,828	9,510,570	52,637,913

Schedule 121/122

Block 1	11,500	11,500	11,500	11,500	11,500	11,500	11,550	12,000	10,000	12,500	11,500	(104,050)	22,500
Block 2	11,500	11,500	11,500	11,500	11,379	11,215	11,267	11,644	10,000	12,341	11,500	(102,847)	22,500
Block 3	203,386	198,442	203,480	191,875	185,869	175,428	169,185	170,893	160,240	192,243	196,831	(1,648,908)	398,964
Block 4	184,426	141,925	156,602	113,585	102,398	77,470	69,070	76,228	76,173	87,527	113,533	(619,987)	578,951
Block 5	136,758	91,813	91,236	69,504	21,110	27,709	19,811	22,671	35,740	38,110	78,882	112,062	745,405
Total	547,571	455,180	474,318	397,963	332,257	303,323	280,882	293,436	292,153	342,721	412,245	(2,363,729)	1,768,320
Revenue Run Total	547,571	455,180	474,318	397,963	332,257	303,323	280,882	293,436	292,153	342,721	412,245	(2,363,729)	1,768,320

			200	1,000	Over			
Annual Usage			500	1,000	10,000	25,000	Over	
			Block 1 1st 500 therms	Block 2 501 - 1,000 therms	Block 3 1,001 - 10,000 therms	Block 4 10,001 - 25,000 therms	Block 5 over 25,000 therms	
Schedule 121/122								
Customer 1	121	636,936	Commercial	6,000	6,000	108,000	180,000	336,936
Customer 2	121	540,508	Industrial	6,000	6,000	108,000	179,492	241,016
Customer 3	122	462,369	Commercial	6,000	6,000	108,000	176,813	165,557
Present Base Rates			\$ 0.48088	\$ 0.34850	\$ 0.26767	\$ 0.21692	\$ 0.14387	
	Customer 1			\$2,885.28	\$2,091.00	\$ 28,908.36	\$39,045.60	\$48,474.94
	Customer 2			\$2,885.28	\$2,091.00	\$ 28,908.36	\$38,935.40	\$34,674.94
	Customer 3			\$2,885.28	\$2,091.00	\$ 28,908.36	\$38,354.24	\$23,818.63
								\$121,405.18
								\$107,494.98
								\$ 96,057.51
								\$324,957.67

			200	1,000	Over			
Annual Usage			500	1,000	10,000	25,000	Over	
			Block 1 1st 200 therms	Block 2 201 - 1,000 therms	Block 3 over 1,000 therms			
Schedule 111/112								
Customer 1	121	636,936		2,400	9,600	624,936		
Customer 2	121	540,508		2,400	9,600	528,508		
Customer 3	122	462,369		2,400	9,600	450,369		
Present Base Rates			\$ 0.48625	\$ 0.33354	\$ 0.25424			
	Customer 1			\$1,167.00	\$3,201.98	\$158,883.65		\$163,252.63
	Customer 2			\$1,167.00	\$3,201.98	\$134,367.82		\$138,736.80
	Customer 3			\$1,167.00	\$3,201.98	\$114,501.93		\$118,870.92
								\$420,860.35

			200	1,000	10,000	25,000	Over	
Annual Usage			500	1,000	10,000	25,000	Over	
			Block 1 1st 200 therms	Block 2 201 - 1,000 therms	Block 3 1,001 - 10,000 therms	Block 4 10,001 - 25,000 therms	Block 5 over 25,000 therms	
Schedule 111/112 Revised								
Customer 1	121	636,936	Schedule 121 not Rebilled	2,400	9,600	108,000	180,000	336,936
Customer 2	121	540,508		2,400	9,600	108,000	179,492	241,016
Customer 3	122	462,369		2,400	9,600	108,000	176,813	165,557
	Total Usage			7,200	28,800	324,000	536,305	743,508
Revised Present Base Rates			\$ 0.48625	\$ 0.33354	\$ 0.25424	\$ 0.21692	\$ 0.15217	
	Customer 1			\$1,167.00	\$3,201.98	\$ 27,457.92	\$39,045.60	\$51,272.45
	Customer 2			\$1,167.00	\$3,201.98	\$ 27,457.92	\$38,935.40	\$36,676.05
	Customer 3			\$1,167.00	\$3,201.98	\$ 27,457.92	\$38,354.24	\$25,193.22
								\$122,144.95
								\$107,438.36
								\$ 95,374.36
								\$324,957.67
								\$ -

			Present	\$ 0.48625	\$ 0.33354	\$ 0.25424	\$ 0.21692	\$ 0.15217
			Proposed	\$ 0.56955	\$ 0.37851	\$ 0.28852	\$ 0.24617	\$ 0.17269
			Differential	\$ 0.08330	\$ 0.04497	\$ 0.03428	\$ 0.02925	\$ 0.02052
	15-Dec							
Customer 1	71833							
Customer 2	Sch 111							
Customer 3	54946							
	126779							
	243253							

			200	1,000	10,000	25,000	Over	
Annual Usage			500	1,000	10,000	25,000	Over	
			Block 1 1st 200 therms	Block 2 201 - 1,000 therms	Block 3 1,001 - 10,000 therms	Block 4 10,001 - 25,000 therms	Block 5 over 25,000 therms	
Schedule 111/112 Revised								
Customer 1	121	636,936	Schedule 121 not Rebilled	2,400	9,600	108,000	180,000	336,936
Customer 2	121	540,508		2,400	9,600	108,000	179,492	241,016
Customer 3	122	462,369		2,400	9,600	108,000	176,813	165,557
	Total Usage			7,200	28,800	324,000	536,305	743,508
Proposed Base Rates			\$ 0.56955	\$ 0.37851	\$ 0.28852	\$ 0.24617	\$ 0.17269	
	Customer 1			\$1,366.92	\$3,633.70	\$ 31,160.16	\$44,310.60	\$58,185.42
	Customer 2			\$1,366.92	\$3,633.70	\$ 31,160.16	\$44,185.55	\$41,621.01
	Customer 3			\$1,366.92	\$3,633.70	\$ 31,160.16	\$43,526.01	\$28,589.98
								\$138,656.80
								\$121,967.34
								\$108,276.77
								\$368,900.90
								\$ 43,943.23
								13.5%