

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UG-19\_\_\_\_\_

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, 2018**

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
							(1)	(2)
<b>PRESENT RATES</b>								
JDM-G-13/14	\$9.50	\$97.25	\$240.44			\$550.00	\$200.00	\$26,332.00
JDM-G-13/14								
JDM-G-13/14	36.723¢			24.655¢		9.690¢	2.800¢	1.000¢
JDM-G-13/14	47.729¢	33.354¢	34.850¢	19.792¢		8.621¢	4.500¢	
JDM-G-13/14		25.424¢	26.767¢	18.598¢		7.774¢	3.168¢	
JDM-G-13/14			21.692¢	18.203¢		7.189¢	2.500¢	
JDM-G-13/14			14.387¢			5.403¢	2.091¢	
ADJUST TO ACTUAL PER THERM	40.793¢	24.840¢	19.289¢	20.404¢				
<b>PROPOSED RATES</b>								
JDM-G-13/14	\$9.50	\$113.91				\$625.00	\$200.00	\$26,332.00
JDM-G-13/14								
JDM-G-13/14	43.695¢			28.460¢		11.060¢	2.800¢	1.000¢
JDM-G-13/14	56.790¢	37.851¢	22.846¢	22.846¢		9.840¢	4.500¢	
JDM-G-13/14		28.852¢	21.468¢	21.468¢		8.873¢	3.168¢	
JDM-G-13/14		24.617¢	18.203¢	18.203¢		8.205¢	2.500¢	
JDM-G-13/14		17.269¢				6.167¢	2.091¢	
ADJUST TO ACTUAL PER THERM	48.537¢	27.956¢	23.273¢					

(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  
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12 MONTHS ENDED DECEMBER 31, 2018**

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
<b>PRESENT REVENUE</b>								
<b>BASE TARIFF REVENUE</b>								
BASIC CHARGE	\$19,033,787	\$18,444,203				\$264,000	\$9,600	\$315,984
MONTHLY/ANNUAL MINIMUM	3,621,043		3,582,690	8,656		29,697		
BLOCK 1	30,366,992	28,691,877			59,172	823,049	686,899	105,995
BLOCK 2	28,484,379	21,877,926	5,525,132	6,273	60,362	734,012	280,674	
BLOCK 3	8,851,728		7,550,341	86,725	63,656	1,084,778	66,228	
BLOCK 4	472,948			116,335	17,842	197,452	141,319	
BLOCK 5	322,622			106,968		102,624	113,030	
ANNUAL MINIMUM								
<b>SUBTOTAL</b>	<b>\$91,153,500</b>	<b>\$69,014,006</b>	<b>\$16,658,164</b>	<b>\$324,957</b>	<b>\$201,031</b>	<b>\$3,235,613</b>	<b>\$1,297,750</b>	<b>\$421,979</b>
<b>NET SHIFTING ADJUSTMENT</b>								
<b>SUBTOTAL</b>	<b>\$91,153,500</b>	<b>\$69,014,006</b>	<b>\$16,658,164</b>	<b>\$324,957</b>	<b>\$201,031</b>	<b>\$3,235,613</b>	<b>\$1,297,750</b>	<b>\$421,979</b>
ADJUST TO ACTUAL	0	0	0	0	0	0	0	0
<b>TOTAL BASE TARIFF REVENUE</b>	<b>\$91,153,500</b>	<b>\$69,014,006</b>	<b>\$16,658,164</b>	<b>\$324,957</b>	<b>\$201,031</b>	<b>\$3,235,613</b>	<b>\$1,297,750</b>	<b>\$421,979</b>
<b>ADJUSTMENT REVENUE</b>								
<b>UNBILLED REVENUE ADJUSTMENT</b>								
JDM-G-15 UNBILLED LOAD THERMS	(2,539,340)	(1,839,341)	(547,180)	(152,819)				
JDM-G-2/5/6 UNBILLED LOAD RATE	40,793¢		24,840¢	19,289¢				
UNBILLED LOAD REVENUE	(\$915,712)	(\$750,313)	(\$135,922)	(\$29,477)				
TOTAL UNBILLED THERM ADJ	(2,539,340)	(1,839,341)	(547,180)	(152,819)				
TOTAL UNBILLED REVENUE ADJ	(\$915,712)	(\$750,313)	(\$135,922)	(\$29,477)				
<b>WEATHER NORMALIZATION ADJ</b>								
JDM-G-17 WEATHER-SENSITIVE THERMS	9,164,130	6,856,979	2,239,073	68,078				
JDM-G-2/5/6 WEATHER-SENSITIVE RATE	41,833¢		26,305¢	17,350¢				
WEATHER-SENSITIVE REVENUE	\$3,469,261	\$2,868,470	\$588,979	\$11,811				
<b>OTHER ADJUSTMENTS</b>								
TOTAL ADJUSTMENT REVENUE	\$2,553,548	\$2,118,157	\$453,057	(\$17,666)	\$0	\$0	\$0	\$0
TOTAL BASE TARIFF REVENUE	91,153,500	69,014,006	16,658,164	324,957	201,031	3,235,613	1,297,750	421,979
TOTAL PRESENT REVENUE	\$93,707,048	\$71,132,163	\$17,111,221	\$307,292	\$201,031	\$3,235,613	\$1,297,750	\$421,979

**AVISTA UTILITIES  
WASHINGTON NATURAL GAS  
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES  
12 MONTHS ENDED DECEMBER 31, 2018**

WORK PAPER REFERENCE	PROPOSED REVENUE					TRANSPORT		
	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	SCH 148 - WSU ANN. MINIMUM
	\$19,069,787	\$18,444,203			\$300,000	\$9,600		\$315,984
BASIC CHARGE	4,233,361		4,200,545		32,816			
MONTHLY/ANNUAL MINIMUM	35,939,750	34,139,138			939,414	686,899		105,995
BLOCK 1	33,500,408	26,031,290	6,280,967		837,801	280,674		
BLOCK 2	9,837,939	8,460,100	73,479		1,238,132	66,228		
BLOCK 3	688,684	304,166	17,842		225,358	141,319		
BLOCK 4	358,561	128,396			117,135	113,030		
BLOCK 5								
ANNUAL MINIMUM								
SUBTOTAL	\$103,628,489	\$78,614,630	\$19,374,175	\$0	\$3,690,655	\$1,297,750		\$421,979
NET SHIFTING ADJUSTMENT								
SUBTOTAL	\$103,628,489	\$78,614,630	\$19,374,175	\$0	\$3,690,655	\$1,297,750		\$421,979
ADJUST TO ACTUAL	0	0	0	0	0	0	0	0
TOTAL BASE TARIFF REVENUE	\$103,628,489	\$78,614,630	\$19,374,175	\$0	\$3,690,655	\$1,297,750		\$421,979
ADJUSTMENT REVENUE								
UNBILLED REVENUE ADJUSTMENT								
BASE LOAD THERMS	(2,539,340)	(1,839,341)	(699,999)	0				
BASE LOAD RATE	48,537¢		27,956¢					
BASE LOAD REVENUE	(\$1,088,448)	(\$892,760)	(\$195,688)	\$0				
TOTAL UNBILLED THERM ADJ	(2,539,340)	(1,839,341)	(699,999)	0				
TOTAL UNBILLED REVENUE ADJ	(\$1,088,448)	(\$892,760)	(\$195,688)					
WEATHER NORMALIZATION ADJ								
WEATHER-SENSITIVE THERMS	9,164,130	6,856,979	2,307,151	0				
WEATHER-SENSITIVE RATE	49,775¢		29,867¢					
WEATHER-SENSITIVE REVENUE	\$4,102,116	\$3,413,043	\$689,072	\$0				
OTHER ADJUSTMENTS								
TOTAL ADJUSTMENT REVENUE	\$3,013,668	\$2,520,284	\$493,384	\$0	\$0	\$0	\$0	\$0
TOTAL BASE TARIFF REVENUE	103,628,489	78,614,630	19,374,175	0	229,300	1,297,750		421,979
TOTAL PROPOSED REVENUE	\$106,642,157	\$81,134,914	\$19,867,558	\$0	\$3,690,655	\$1,297,750		\$421,979
TOTAL PRESENT REVENUE	\$93,707,048	\$71,132,163	\$17,111,221	\$307,292	\$3,235,613	\$1,297,750		\$421,979
TOTAL INCREASED REVENUE	\$12,935,109	\$10,002,751	\$2,449,046	\$0	\$455,042	\$0	\$0	\$0
PERCENT REVENUE INCREASE	13.80%	14.06%	14.31%		14.06%	0.00%		0.00%

**AVISTA UTILITIES  
WASHINGTON NATURAL GAS  
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES  
12 MONTHS ENDED DECEMBER 31, 2018**

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	36.72¢		78,130,536	\$28,691,877	25,239,435	\$9,268,678	52,891,101	\$19,423,199
OVER 70 THERMS	47.72¢		45,837,806	\$21,877,926	0	\$0	45,837,806	\$21,877,926
TOTAL			123,968,342	\$50,569,803	25,239,435	\$9,268,678	98,728,907	\$41,301,125
AVERAGE RATE				40.79¢		36.72¢		41.83¢

<u>PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE</u>								
SCHEDULE 101								
0-70 THERMS	43.69¢		78,130,536	\$34,139,138	25,239,435	\$11,028,371	52,891,101	\$23,110,767
OVER 70 THERMS	56.79¢		45,837,806	\$26,031,290	0	\$0	45,837,806	\$26,031,290
TOTAL			123,968,342	\$60,170,428	25,239,435	\$11,028,371	98,728,907	\$49,142,057
AVERAGE RATE				48.53¢		43.69¢		49.77¢

(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 1,941,495 = 25,239,435

<u>PRESENT BASELOAD AND WEATHER-SENSITIVE RATE</u>								
SCHEDULE 111								
0-200 THERMS	0.00¢		6,375,094	\$0	6,375,094	\$0	0	\$0
201-1,000 THERMS	33.35¢		16,585,127	\$5,525,132	12,855,386	\$4,287,785	3,709,741	\$1,237,347
OVER 1,000 THERMS	25.42¢		29,697,692	\$7,550,341	0	\$0	29,697,692	\$7,550,341
TOTAL			52,657,913	\$13,075,474	19,230,480	\$4,287,785	33,407,433	\$8,787,688
AVERAGE RATE				24.84¢		22.29¢		26.30¢

<u>PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE</u>								
SCHEDULE 111								
0-200 THERMS	0.00¢		6,382,294	\$0	6,382,294	\$0	0	\$0
201-1,000 THERMS	37.85¢		16,593,927	\$6,280,967	12,866,978	\$4,870,280	3,726,949	\$1,410,687
1001-10,000 THERMS	28.85¢		29,322,405	\$8,460,100	0	\$0	29,322,405	\$8,460,100
10,001-25,000 THERMS	24.61¢		1,235,592	\$304,166	0	\$0	1,235,592	\$304,166
OVER 25,000 THERMS	17.26¢		743,508	\$128,396	0	\$0	743,508	\$128,396
TOTAL			54,277,725	\$15,173,629	19,249,272	\$4,870,280	33,049,354	\$9,870,788
AVERAGE RATE				27.95¢		25.30¢		29.86¢

(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 36,840 = 19,230,480

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	0.00¢		18,000	\$0	18,000	\$0	0	\$0
501-1,000 THERMS	34.85¢		18,000	\$6,273	18,000	\$6,273	0	\$0
1001-10,000 THERMS	26.76¢		324,000	\$86,725	324,000	\$86,725	0	\$0

AVISTA UTILITIES

WASHINGTON NATURAL GAS  
 PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES  
 12 MONTHS ENDED DECEMBER 31, 2018

10,001-25,000 THERMS	21.692¢	536,305	\$116,335	29,052	\$6,302	507,252	\$110,033
OVER 25,000 THERMS	14.387¢	743,508	\$106,968	0	\$0	743,508	\$106,968
TOTAL		1,639,812	\$316,302	389,052	\$92,998	1,250,760	\$217,002
AVERAGE RATE			19.289¢		23.904¢		17.350¢

PROPOSED BASELOAD AND WEATHER-SENSITIVE RATE

SCHEDULE 121							
0-500 THERMS	0.000¢	0	\$0	0	\$0	0	\$0
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	389,052	\$0	0	0
AVERAGE RATE			#DIV/0!		0.000¢		#DIV/0!

(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 36 = 389,052

**AVISTA UTILITIES  
WASHINGTON GAS  
PRESENT & PROPOSED RATE OF RETURN BY RATE SCHEDULE  
12 MONTHS ENDED DECEMBER 31, 2016**

	<b>Total</b>	<b>Sch 101</b>	<b>Sch 111</b>	<b>Sch 131</b>	<b>Sch 146</b>	
Total Rate Base	398,991,000	321,257,221	59,244,238	769,069	17,720,472	from COS
Revenue From Retail Rates	91,987,000	71,132,000	17,418,000	201,000	3,236,000	from COS
Other Operating Revenues	2,053,000	1,691,772	259,781	2,949	98,498	from COS
<b>Total Revenues</b>	<b>94,040,000</b>	<b>72,823,772</b>	<b>17,677,781</b>	<b>203,949</b>	<b>3,334,498</b>	
Total Operating Exp b4 conv items & taxes	67,633,000	57,883,054	7,604,856	97,109	2,047,980	
Revenue Related conversion items	4,340,000	3,356,040	821,818	9,485	152,657	from COS
Income Taxes	1,832,000	516,154	1,198,655	12,038	105,153	from COS
<b>Total Expenses</b>	<b>73,805,000</b>	<b>61,755,249</b>	<b>9,625,329</b>	<b>118,631</b>	<b>2,305,791</b>	from COS
<b>Net Operating Income</b>	<b>20,235,000</b>	<b>11,068,523</b>	<b>8,052,453</b>	<b>85,318</b>	<b>1,028,707</b>	
<b>Present Rate of Return</b>	<b>5.07%</b>	<b>3.45%</b>	<b>13.59%</b>	<b>11.09%</b>	<b>5.81%</b>	
<b>Present Return Ratio</b>	<b>1.00</b>	<b>0.68</b>	<b>2.68</b>	<b>2.19</b>	<b>1.14</b>	
Interest Expense	10,254,000	8,256,255	1,522,567	19,765	455,413	from COS
Proposed Misc Revenue Increase	<b>0</b>					
Proposed Rate Revenue Increase	<b>12,935,000</b>	14.06%				
Proposed Rev Increase	<b>12,935,000</b>					
Proposed Rate Revenues	<b>104,922,000</b>	12,935,000		<b>0.003781</b>		
incremental conversion expenses	<b>571,000</b>			<b>0.002000</b>		
incremental Income Taxes	<b>2,596,000</b>			<b>0.038374</b>		
Proposed Return	<b>30,003,000</b>	9,768,000		<b>0.200727</b>		
Proposed Return %	<b>7.52%</b>					
Allocation of incremental Misc Rev	0.00000	<b>0.00000</b>	<b>0.00000</b>	<b>0.00000</b>	<b>0.00000</b>	from COS
<b>Target Relative Return</b>	<b>1.00</b>	<b>0.78</b>	<b>2.19</b>	<b>1.82</b>	<b>1.02</b>	Input
Target Return %	7.52%	5.85%	16.45%	13.65%	7.70%	
Target Return (NOI b4 Interest)	30,003,000	18,785,331	9,747,812	105,009	1,364,848	-
Target Return after Interest Expense	19,749,000	10,529,076	8,225,245	85,244	909,435	-
Target Return b4 Income Taxes & Interest	34,431,000	21,146,096	11,592,026	124,121	1,568,756	-
Target Return b4 Misc Rev	32,378,000	19,454,325	11,332,245	121,173	1,470,258	-
Total Operating Exp b4 conv items & taxes	67,633,000	57,883,054	7,604,856	97,109	2,047,980	-
Conversion Items	4,911,000	3,797,621	929,899	10,719	172,762	-
<b>Incremental Rate Revenue</b>	<b>12,935,000</b>	<b>10,003,000</b>	<b>2,449,000</b>	<b>28,000</b>	<b>455,000</b>	-
<b>Target Rate Revenue</b>	<b>104,922,000</b>	<b>81,135,000</b>	<b>19,867,000</b>	<b>229,000</b>	<b>3,691,000</b>	-
<b>Change in Rate Revenue</b>	<b>14.06%</b>	<b>14.06%</b>	<b>14.06%</b>	<b>13.93%</b>	<b>14.06%</b>	
Incremental Rate Revenue - rounded	12,934,000	10,003,000	2,449,000	28,000	454,000	
Target Rate Revenue - rounded	104,922,000	81,135,000	19,867,000	229,000	3,691,000	
% movement towards unity		30.6%	29.3%	31.3%	83.2%	
Billed Revenue	\$ 127,833,383	\$ 95,819,833	\$ 26,681,488	\$ 456,481	\$ 3,155,851	\$ 1,719,729
	10.1%	10.4%	9.2%	6.1%	14.4%	0.0%



AVISTA UTILITIES  
WASHINGTON GAS

USAGE & BILLINGS BY RATE SCHEDULE  
12 MONTHS ENDED DECEMBER 31, 2018

Schedule 101/102	Total therms	Total Billings	0-70	>70	Total Therms
therms per Revenue Run(1)(2)	123,968,342	1,941,495	78,130,536	45,837,806	123,968,342
					<u>123,968,342</u>
Schedule 111,112,116 - Present	0-200 thms	201-1000 thms	>1000 thms	Total	Billings
therms by block(2)	6,375,094	16,565,127	29,697,692	52,637,913	
less: shifted to Sch 146	0	0	0	0	
Total therms by block	6,375,094	16,565,127	29,697,692	52,637,913	36,840
Per Rev. Run(1)	0	0	0	0	0
less: shifted to Sch. 146					
less: shifted from Sch. 121					
Total					0
Adjust. To Actual					36,840
					0
Schedule 111,112,116 - Proposed	0-200 thms	201-1000 thms	1001-10000	10000-	Total
therms by block(2)	6,375,094	16,565,127	29,697,692	250000 thms	therms
Block Adjustment			(699,287)	699,287	0
Add: Sch 121/122	7,200	28,800	324,000	536,305	1,639,813
Total	6,382,294	16,593,927	29,322,405	1,235,592	54,277,726
					36
					36,876
Schedule 121,122	0-500 thms	501-1000 thms	1001-10000	10000-	Total
therms by block(3)	22,500	22,500	398,964	250000 thms	therms
less: Closed Acct	(4,500)	(4,500)	(74,964)	>250000 thms	45
Total therms by block	18,000	18,000	324,000	745,405	(9)
Per Rev. Run(1)				(1,898)	36
less: Acct closed (2)				743,508	
Total				743,508	
					1,639,812
					1,768,320
					(128,508)
					1,639,812
					0
Schedule 131,132	first	next	over	Total	Total Billings
billed/pro forma therms(3)	240,000	15000 thms	250000 thms	500000 thms	24
		304,980	342,272	98,015	985,267
Schedule 146	first	next	next	over	Total
billed/pro forma therms(4)	20000 thms	30000 thms	250000 thms	200000 thms	therms
	8,493,795	8,514,233	13,953,929	2,746,588	35,607,936
				1,899,391	480
Sch. 147-Interdepartmental(3)	Total therms				
billed/pro forma therms	5,405,533				
Sch. 148-Sp. Contracts(3)	Total therms	Total Billings			
	24,532,118	12			
	6,237,208	12			
	2,090,525	12			
	5,652,763	12			
Total	38,512,614	48			
Wash. State Univ.	10,599,458	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 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	12-mo ended	1st 20,000 thms/mo	20,000 50,000 thms/mo	300,000 500,000 thms/mo	500,000 thms/mo	500,000 thms/mo
415,785	355,464	355,300	281,721	204,574	43,693	30,183	15,503	18,744	47,441	187,342	322,385	2,278,135	234,247	271,317	1,523,637	248,934	
20,923	19,103	20,016	19,746	20,036	19,746	18,315	18,397	20,766	18,408	22,562	20,603	239,610	233,969	5,641			
54,601	38,819	43,480	43,480	42,408	35,552	35,552	39,785	39,786	42,220	39,343	50,945	503,804	240,000	258,258	5,546		
81,743	80,049	295,451	72,830	70,934	58,560	57,728	12,876	1	57,429	46,472	52,903	886,976	212,877	296,472	377,627		
187,858	315,909	74,565	295,108	254,949	209,473	195,550	173,584	174,513	178,584	227,343	248,944	2,536,578	240,000	360,000	1,920,669	15,909	
25,890	29,832	30,418	27,395	34,025	33,509	33,213	20,214	26,937	29,489	35,889	29,919	356,760	240,000	116,760			
64,095	62,508	62,508	13,478	13,478	13,478	11,610	6,509	4,925	14,482	34,548	29,579	423,158	191,004	178,769	53,385		
59,623	52,612	48,793	38,697	47,195	10,478	7,975	4,538	4,538	14,802	27,901	38,402	352,504	175,822	161,663	12,235		
51,551	46,018	67,808	31,853	6,634	7,077	2,848	2,564	5,446	14,802	27,901	38,402	352,504	175,822	161,663	12,235		
155,038	122,623	130,738	115,527	100,866	86,970	81,265	79,250	79,250	83,941	99,424	121,890	1,256,198	240,000	360,000	656,198		
54,040	45,826	47,017	43,274	35,110	18,145	11,521	12,756	19,720	32,408	32,408	45,467	381,110	217,968	159,102	4,040		
367,242	308,912	304,591	251,712	198,683	123,392	111,823	98,040	106,988	115,130	178,837	254,657	2,420,517	240,000	306,000	1,738,772	81,745	
42,207	42,601	38,142	41,796	38,846	34,020	33,750	34,378	36,391	32,085	37,404	35,238	446,858	240,000	206,858			
111,973	97,947	99,990	78,657	55,276	14,701	8,600	5,252	7,147	23,904	61,739	89,537	654,663	195,700	213,904	245,059		
807,830	675,163	661,036	636,142	652,753	655,801	617,696	668,344	676,555	557,678	705,742	584,651	7,899,391	240,000	360,000	3,000,000	2,400,000	1,899,391
46,254	41,983	42,213	37,378	37,182	36,955	35,584	33,437	33,335	31,314	36,615	42,481	454,731	240,000	214,731			
81,649	70,225	65,964	61,934	49,857	43,563	42,033	39,518	39,386	42,238	50,682	63,188	650,237	240,000	316,595	93,642		
65,695	72,429	69,009	66,905	58,765	46,676	45,148	39,851	44,290	45,166	61,506	66,593	682,033	240,000	331,131	110,902		
				13,654	31,759	24,516	35,486	51,233	59,820	72,174	33,953	322,525	153,654	135,644	33,227		
				22,701	70,591	108,708	41,231	43,416	19,233	47,674	6,544	360,134	145,813	135,022	79,299		
												77,289	40,000	37,269			
28,868	28,455	25,144	21,107	23,445	17,889	42,351	18,960	19,584	21,198	25,600	27,547	282,815	236,433	46,382			
31,278	31,635	26,464	30,730	26,552	26,212	20,305	21,439	23,178	23,432	25,946	26,251	313,422	240,000	73,422			
59,709	53,492	52,311	49,051	41,604	30,067	27,983	26,574	25,781	29,674	41,931	48,898	487,075	240,000	231,563	15,512		
85,078	61,661	52,373	30,857	21,199	2,580	18	13	9	9,304	9,304	59,982	323,074	131,924	132,056	59,094		
118,668	98,286	96,607	108,132	119,798	116,471	96,310	109,563	117,072	100,107	111,292	100,581	1,284,887	240,000	360,000	684,887		
90,430	83,826	85,585	76,450	56,893	35,953	34,176	33,321	33,576	43,798	53,978	84,791	717,777	240,000	290,824	186,953		
15,540	16,383	13,817	14,529	12,534	11,480	10,030	11,037	11,109	11,131	13,098	14,070	154,758	154,758	360,000	118,913		
67,790	65,192	60,050	66,297	60,171	59,349	54,925	59,638	57,257	63,663	51,122	51,122	718,913	240,000	360,000	1,699,279		
287,849	244,777	244,177	222,571	183,293	144,374	142,559	136,064	132,251	147,275	182,065	232,074	2,299,279	240,000	360,000	1,699,279		
				3,360	17,474	43,698	23,860	23,696	26,379	18,934	9,297	207,928	149,065	58,863			
42,343	43,417	38,087	45,516	41,584	36,688	33,290	33,813	36,429	36,676	43,634	23,830	455,307	240,000	215,307	952,391		
122,651	134,343	131,414	145,440	141,771	144,651	137,666	137,490	136,687	120,935	135,021	64,932	1,552,391	240,000	360,000	46,466		
74,688	57,156	59,600	45,227	32,666	15,667	15,282	10,608	11,408	17,361	34,171	55,012	428,466	210,346	171,664			
40,172	34,573	34,920	31,919	26,433	18,572	18,672	16,744	17,202	21,385	29,893	35,260	325,745	231,190	84,555			
68,000	59,107	55,442	54,416	46,482	38,970	42,582	44,942	44,942	56,784	59,064	59,064	606,034	240,000	313,221	52,813		
37,843	41,129	37,385	43,995	46,157	50,833	50,980	49,152	51,464	44,118	50,191	48,052	551,299	240,000	307,831	3,468		
35,912	38,156	17,670	91,185	78,420	78,423	72,714	72,848	76,572	66,694	12,102	65,796	706,492	229,772	274,068	202,652		
1,002	795	32,865	810	14,791	22,318	22,065	22,410	15,988	15,988	85,407	26	236,943	151,878	49,658	35,407		
56,114	54,725	51,863	44,918	36,482	21,351	18,150	12,937	13,551	20,144	38,614	53,171	422,020	224,638	181,509	15,873		

Total WA Sch 146

Revenue Runs

3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,275,935	2,340,543	3,067,907	3,261,051	35,607,936	8,493,795	8,514,233	13,853,929	2,746,568	1,899,391
3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,275,935	2,340,543	3,067,907	3,261,051	35,607,936	500	1,000	10,000	25,000	Over
													200	1,000	Over		

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Total Sch 146

3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,275,935	2,340,543	3,067,907	3,261,051	35,607,936	8,493,795	8,514,233	13,853,929	2,746,568	1,899,391
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**ANNUAL USAGE, Sch 132  
Washington**

Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
72,359	48,424	56,958	43,898	37,416	15,435	14,115	11,257	11,438	17,735	27,417	51,773	408,225	120,000	124,960	132,155	31,090
66,743	68,904	56,159	49,321	35,485	32,035	27,622	32,258	33,395	50,959	61,102	85,058	577,042	120,000	180,000	210,117	66,925
139,102	117,328	113,117	93,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267	240,000	304,960	342,272	98,015

Revenue Runs

Total WA Sch 132

139,102	117,328	113,117	93,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267	240,000	304,960	342,272	98,015
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**ANNUAL USAGE, Sch 148  
Washington**

Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
2,263,003	2,323,468	2,069,022	2,145,109	1,947,509	1,988,089	1,901,441	1,894,548	1,929,184	1,920,478	1,974,243	2,176,024	24,532,118	120,000	124,960	132,155	31,090
500,013	552,172	461,294	337,409	485,342	532,181	556,951	565,213	536,353	554,306	607,830	548,144	6,237,208	120,000	124,960	132,155	31,090
194,662	187,274	172,931	139,365	170,191	185,361	177,692	168,237	164,761	168,526	180,639	180,886	2,090,525	120,000	124,960	132,155	31,090
509,509	567,802	459,179	506,796	433,132	406,894	449,872	500,550	448,257	421,795	485,250	463,727	5,652,763	120,000	124,960	132,155	31,090
1,515,959	1,242,619	1,250,208	1,118,302	889,368	577,568	525,822	442,848	455,422	632,550	863,885	1,084,907	10,899,458	240,000	304,960	342,272	98,015
4,983,146	4,873,335	4,412,634	4,246,981	3,825,542	3,690,093	3,611,778	3,571,396	3,533,977	3,697,655	4,111,847	4,453,688	49,112,072	240,000	304,960	342,272	98,015

Revenue Runs

Total WA Sch 148

4,983,146	4,873,335	4,412,634	4,246,981	3,825,542	3,690,093	3,611,778	3,571,396	3,533,977	3,697,655	4,111,847	4,453,688	49,112,072	240,000	304,960	342,272	98,015
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**ANNUAL USAGE, Sch 147  
Washington**

Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	12-mo ended Total	10,000 thms/mo	25,000 thms/mo	50,000 thms/mo	Over thms/mo
253,287	37,658	115,812	46,787	72,960	231,323	115,510	739,213	774,467	562,471	1,000,573	493,719	4,443,780	120,000	124,960	132,155	31,090
28,790	1,515	18,601	7,690	23,317	9,105	28,943	228,029	254,283	133,316	61,432	166,732	961,753	120,000	124,960	132,155	31,090
282,077	39,173	134,413	54,477	96,277	240,428	144,453	967,242	1,028,750	695,787	1,062,005	660,451	5,405,533	240,000	304,960	342,272	98,015

Revenue Runs

Total WA Sch 147

282,077	39,173	134,413	54,477	96,277	240,428	144,453	967,242	1,028,750	695,787	1,062,005	660,451	5,405,533	240,000	304,960	342,272	98,015
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Gas Revenue Meters Report by Location Twelve Months Ended for Report Date : '12/31/2018'

State Cde:WA

Rate Schedule Num	Meters												201812 12 Month Averag	12 Month Total
	201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812		
0101	160,426	160,194	161,042	160,754	161,195	161,073	161,417	161,730	160,225	164,438	163,219	163,683	161,616	1,939,396
0102	185	184	186	181	176	174	171	170	170	168	167	167	175	2,099
0111	2,999	3,013	3,073	3,062	3,042	3,065	3,054	3,045	2,975	3,121	3,064	3,325	3,069	36,828
0112	1	1	1	1	1	1	1	1	1	1	1	1	1	12
0121	22	22	22	22	22	22	22	23	19	24	22	(209)	3	33
0122	1	1	1	1	1	1	1	1	1	1	1	1	1	12
0132	2	2	2	2	2	2	2	2	2	2	2	2	2	24
0146	41	41	41	41	41	41	41	41	41	38	40	39	41	486
0147	3	3	3	3	3	3	3	3	3	3	3	3	3	34
0148	5	5	5	5	5	5	5	5	5	5	5	5	5	60
0158	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0158A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0199	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for WA	163,685	163,465	164,376	164,072	164,488	164,386	164,717	165,021	163,442	167,801	166,514	167,017	1,941,495	1,978,984

Rate Schedule Num	Meters												Total	Avg
	201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812		
101/102	160,611	160,378	161,228	160,935	161,371	161,247	161,588	161,900	160,395	164,606	163,386	163,850	1,941,495	161,791
111/112	3,000	3,014	3,074	3,063	3,043	3,066	3,055	3,046	2,976	3,122	3,055	3,326	3,070	3,070
121/122	23	23	23	23	23	23	23	24	20	25	23	(206)	45	4
132	2	2	2	2	2	2	2	2	2	2	2	2	24	2
146	41	41	41	41	41	41	41	41	41	38	40	39	486	41
147	3	3	3	3	3	3	3	3	3	3	3	3	34	3
148	5	5	5	5	5	5	5	5	5	5	5	5	60	5
Total	163,685	163,465	164,376	164,072	164,488	164,386	164,717	165,021	163,442	167,801	166,514	167,017	1,978,984	

Total Usage		201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	12 Month Total
101/102	132	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	123,969,342
111/112	146	8,018,208	6,561,361	6,797,195	5,168,624	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
121/122	147	547,571	485,180	474,318	397,963	332,257	303,323	280,882	293,436	292,153	342,721	412,245	(2,363,729)	1,769,320
	148	139,102	117,328	113,117	95,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267
	146	3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,276,935	2,340,543	3,067,907	3,261,051	35,607,936
	147	282,077	39,173	134,413	54,477	96,277	240,428	144,453	967,242	1,028,750	695,787	1,062,005	660,451	5,405,533
	148	4,983,146	4,873,335	4,412,634	4,246,981	3,925,542	3,690,093	3,611,778	3,571,396	3,533,977	3,697,655	4,111,847	4,453,688	49,112,072
Total		41,845,271	33,084,467	34,271,544	26,122,430	16,725,496	11,566,402	10,520,741	10,612,638	11,231,494	15,005,016	23,917,026	34,582,858	269,485,983

  

Gas Revenue Usage Report by Location Twelve Months Ended for Report Date : '12/31/2018'		201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	12 Month Total
Source Id	Period	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
REVUNBL 101	101	9,629,638	10,422,050	7,439,863	4,397,502	1,567,310	1,312,050	1,164,748	1,295,014	1,933,114	5,038,482	9,771,651	11,417,514	65,388,956
	111	3,107,754	3,767,306	2,589,731	1,701,302	772,170	804,108	704,295	846,222	1,188,000	2,308,113	3,719,804	3,956,196	25,465,001
	112	7,144	10,765	5,304	3,881	1,511	2,534	2,243	2,890	5,590	9,457	15,496	10,281	77,096
	121	199,450	241,971	164,598	118,764	60,281	104,394	103,836	139,424	175,022	256,977	297,046	134,000	1,995,763
	122	3,629,622	3,567,188	3,349,134	3,031,741	2,500,962	2,374,496	2,194,451	2,275,935	2,309,719	3,267,643	3,267,643	3,542,437	153,539
	146	4,873,335	4,412,634	4,246,981	3,925,542	3,689,297	3,611,778	3,571,396	3,533,977	3,697,655	4,111,496	4,453,688	4,907,937	45,110,174
	147	21,446,943	22,421,914	17,795,631	13,178,732	8,601,661	8,222,290	7,752,409	8,107,732	9,328,787	14,816,539	21,553,753	24,000,437	177,226,828
Total for REVUNBL-G		(13,256,855)	(9,629,638)	(10,422,050)	(7,439,863)	(4,397,502)	(1,567,310)	(1,164,748)	(1,295,014)	(1,933,114)	(5,038,482)	(9,771,651)	(11,417,514)	(67,228,297)
	111	(4,489,374)	(3,107,754)	(2,589,731)	(1,701,302)	(772,170)	(804,108)	(704,295)	(846,222)	(1,188,000)	(2,308,113)	(3,719,804)	(3,956,196)	(26,008,179)
	112	(14,283)	(7,144)	(5,304)	(3,881)	(1,511)	(2,534)	(2,243)	(2,890)	(5,590)	(9,457)	(15,496)	(10,281)	(81,098)
	121	(318,891)	(198,450)	(241,971)	(164,598)	(60,281)	(104,394)	(103,836)	(139,424)	(175,022)	(256,977)	(297,046)	(134,000)	(2,180,654)
	122	(3,967,685)	(3,629,622)	(3,567,188)	(3,349,134)	(2,500,962)	(2,374,496)	(2,194,451)	(2,275,935)	(2,309,719)	(3,267,643)	(3,267,643)	(3,542,437)	(121,467)
	146	(4,983,146)	(4,873,335)	(4,412,634)	(4,246,981)	(3,925,542)	(3,690,093)	(3,611,778)	(3,571,396)	(3,533,977)	(4,111,496)	(4,453,688)	(4,907,937)	(35,636,005)
	147	(27,040,234)	(21,446,943)	(22,421,914)	(17,795,631)	(8,601,661)	(8,222,290)	(7,752,409)	(8,107,732)	(9,328,787)	(14,816,539)	(21,553,753)	(24,000,437)	(180,266,625)
Total for REVUNBL-GR		(5,593,291)	974,971	(4,626,283)	(4,616,899)	(4,577,071)	(379,371)	(469,881)	355,323	1,221,055	5,487,752	6,737,214	2,446,684	(3,039,797)

  

Revenue C Jurisdiction:WA		201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	12 Month Total
Source Id	Rate Schedule Num	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage	Usage
REVUNBL 101	101	9,629,638	10,422,050	7,439,863	4,397,502	1,567,310	1,312,050	1,164,748	1,295,014	1,933,114	5,038,482	9,771,651	11,417,514	65,388,956
	111	3,107,754	3,767,306	2,589,731	1,701,302	772,170	804,108	704,295	846,222	1,188,000	2,308,113	3,719,804	3,956,196	25,465,001
	112	7,144	10,765	5,304	3,881	1,511	2,534	2,243	2,890	5,590	9,457	15,496	10,281	77,096
	121	199,450	241,971	164,598	118,764	60,281	104,394	103,836	139,424	175,022	256,977	297,046	134,000	1,995,763
	122	3,629,622	3,567,188	3,349,134	3,031,741	2,500,962	2,374,496	2,194,451	2,275,935	2,309,719	3,267,643	3,267,643	3,542,437	153,539
	146	4,873,335	4,412,634	4,246,981	3,925,542	3,689,297	3,611,778	3,571,396	3,533,977	3,697,655	4,111,496	4,453,688	4,907,937	45,110,174
	147	21,446,943	22,421,914	17,795,631	13,178,732	8,601,661	8,222,290	7,752,409	8,107,732	9,328,787	14,816,539	21,553,753	24,000,437	177,226,828
Total for REVUNBL-G		(13,256,855)	(9,629,638)	(10,422,050)	(7,439,863)	(4,397,502)	(1,567,310)	(1,164,748)	(1,295,014)	(1,933,114)	(5,038,482)	(9,771,651)	(11,417,514)	(67,228,297)
	111	(4,489,374)	(3,107,754)	(2,589,731)	(1,701,302)	(772,170)	(804,108)	(704,295)	(846,222)	(1,188,000)	(2,308,113)	(3,719,804)	(3,956,196)	(26,008,179)
	112	(14,283)	(7,144)	(5,304)	(3,881)	(1,511)	(2,534)	(2,243)	(2,890)	(5,590)	(9,457)	(15,496)	(10,281)	(81,098)
	121	(318,891)	(198,450)	(241,971)	(164,598)	(60,281)	(104,394)	(103,836)	(139,424)	(175,022)	(256,977)	(297,046)	(134,000)	(2,180,654)
	122	(3,967,685)	(3,629,622)	(3,567,188)	(3,349,134)	(2,500,962)	(2,374,496)	(2,194,451)	(2,275,935)	(2,309,719)	(3,267,643)	(3,267,643)	(3,542,437)	(121,467)
	146	(4,983,146)	(4,873,335)	(4,412,634)	(4,246,981)	(3,925,542)	(3,690,093)	(3,611,778)	(3,571,396)	(3,533,977)	(4,111,496)	(4,453,688)	(4,907,937)	(35,636,005)
	147	(27,040,234)	(21,446,943)	(22,421,914)	(17,795,631)	(8,601,661)	(8,222,290)	(7,752,409)	(8,107,732)	(9,328,787)	(14,816,539)	(21,553,753)	(24,000,437)	(180,266,625)
Total for REVUNBL-GR		(5,593,291)	974,971	(4,626,283)	(4,616,899)	(4,577,071)	(379,371)	(469,881)	355,323	1,221,055	5,487,752	6,737,214	2,446,684	(3,039,797)

AVISTA UTILITIES  
 Schedule Summaries & Shortcuts  
 State of Washington - Natural Gas  
 Effective Date November 1, 2016

**Includes effect of Schedules 150, 155, 174, 175, 189, 191 and 192.  
 Excludes effect of Schedules 158.**

	Base Rate	PGA Sch 150	PGA Amortization Sch 155	Temporary Tax Rebate Sch 174	Decoupling Sch 175	DSM Sch 191	LIRAP Sch 192	Billing Rate	LOW INC DISC RATE Sch 189	Adjusted Billing Rate
<b>Schedule 101 - General Service - Firm</b>										
Basic Charge	\$9.50							\$9.50		
First 70 Therms	\$0.36723	\$0.28637	(\$0.09613)	(\$0.02107)	(\$0.02720)	\$0.03028	\$0.01959	\$0.65907		
Over 70 Therms	\$0.47729	\$0.28637	(\$0.09613)	(\$0.02107)	(\$0.02720)	\$0.03028	\$0.01959	\$0.66913		
<b>Schedule 102 - Fixed-Income Senior &amp; Disabled Residential Service</b>										
Basic Charge	\$9.50							\$9.50		\$9.50
First 70 Therms	\$0.36723	\$0.28637	(\$0.09613)	(\$0.02107)	(\$0.02720)	\$0.03028	\$0.01959	\$0.55907	(\$0.40663)	\$0.15244
Over 70 Therms	\$0.47729	\$0.28637	(\$0.09613)	(\$0.02107)	(\$0.02720)	\$0.03028	\$0.01959	\$0.66913	(\$0.40663)	\$0.26250
<b>Schedule 111 - Large General Service - Firm</b>										
<b>If consumption is less than or equal to 200 therms:</b>										
Minimum charge of plus # of therms used times	→ \$97.25							\$97.25		
		\$0.27588	(\$0.07997)	(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.22349		
<b>If consumption is greater than 200 therms:</b>										
First 200 therms	\$0.48625	\$0.27588	(\$0.07997)	(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.70974		
201-1,000 therms	\$0.33354	\$0.27588	(\$0.07997)	(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.55703		
Over 1,000 therms	\$0.25424	\$0.27588	(\$0.07997)	(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.47773		
<b>Schedule 112 - Large General Service - Firm</b>										
<b>If consumption is less than or equal to 200 therms:</b>										
Minimum charge of plus # of therms used times	→ \$97.25							\$97.25		
		\$0.27588		(\$0.01200)		\$0.01626	\$0.01641	\$0.29655		
<b>If consumption is greater than 200 therms:</b>										
First 200 therms	\$0.48625	\$0.27588		(\$0.01200)		\$0.01626	\$0.01641	\$0.78280		
201-1,000 therms	\$0.33354	\$0.27588		(\$0.01200)		\$0.01626	\$0.01641	\$0.63009		
Over 1,000 therms	\$0.25424	\$0.27588		(\$0.01200)		\$0.01626	\$0.01641	\$0.55079		
<b>Schedule 116 - Transportation Large General Service</b>										
<b>If consumption is less than or equal to 200 therms:</b>										
Minimum charge of plus # of therms used times	→ \$97.25							\$97.25		
		\$0.00056		(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.02814		
<b>If consumption is greater than 200 therms:</b>										
First 200 therms	\$0.48625	\$0.00056		(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.51439		
201-1,000 therms	\$0.33354	\$0.00056		(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.36168		
Over 1,000 therms	\$0.25424	\$0.00056		(\$0.01200)	\$0.00691	\$0.01626	\$0.01641	\$0.28238		
<b>Schedule 121 - High Annual Load Factor Large General Service - Firm</b>										
<b>If consumption is less than or equal to 500 therms:</b>										
Minimum charge of plus # of therms used times	→ \$240.44							\$240.44		
		\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.25101		
<b>If consumption is greater than 500 therms:</b>										
First 500 therms	\$0.48088	\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.73189		
501-1,000 therms	\$0.34850	\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.59951		
1,001-10,000 therms	\$0.26767	\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.51868		
10,001-25,000 therms	\$0.21692	\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.46793		
Over 25,000 therms	\$0.14387	\$0.27574	(\$0.05013)	(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.39488		
Annual minimum therm deficiency charge								\$0.38269		
<b>Schedule 122 - High Annual Load Factor Large General Service - Firm</b>										
<b>If consumption is less than or equal to 500 therms:</b>										
Minimum charge of plus # of therms used times	→ \$240.44							\$240.44		
		\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.29423		
<b>If consumption is greater than 500 therms:</b>										
First 500 therms	\$0.48088	\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.77511		
501-1,000 therms	\$0.34850	\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.64273		
1,001-10,000 therms	\$0.26767	\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.56190		
10,001-25,000 therms	\$0.21692	\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.51116		
Over 25,000 therms	\$0.14387	\$0.27574		(\$0.00926)		\$0.01276	\$0.01499	\$0.43810		
Annual minimum therm deficiency charge								\$0.38269		
<b>Schedule 126 - Transportation High Annual Load Factor Large General Service</b>										
<b>If consumption is less than or equal to 500 therms:</b>										
Minimum charge of plus # of therms used times	→ \$240.44							\$240.44		
		\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.02596		
<b>If consumption is greater than 500 therms:</b>										
First 500 therms	\$0.48088	\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.50684		
501-1,000 therms	\$0.34850	\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.37446		
1,001-10,000 therms	\$0.26767	\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.29363		
10,001-25,000 therms	\$0.21692	\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.24288		
Over 25,000 therms	\$0.14387	\$0.00056		(\$0.00926)	\$0.00691	\$0.01276	\$0.01499	\$0.16893		
Annual minimum therm deficiency charge								\$0.38269		
<b>Schedule 131 - Interruptible Service</b>										
First 10,000 therms	\$0.24655	\$0.24139		(\$0.00784)	\$0.00691	\$0.01132	\$0.01440	\$0.51273		
10,001-25,000 therms	\$0.19792	\$0.24139		(\$0.00784)	\$0.00691	\$0.01132	\$0.01440	\$0.46410		
25,001-50,000 therms	\$0.18598	\$0.24139		(\$0.00784)	\$0.00691	\$0.01132	\$0.01440	\$0.45216		
Over 50,000 therms	\$0.18203	\$0.24139		(\$0.00784)	\$0.00691	\$0.01132	\$0.01440	\$0.44821		
Annual Minimum charge is 250,000 therms minus actual annual usage times								\$0.27731		
<b>Schedule 132 - Interruptible Service</b>										
First 10,000 therms	\$0.24655	\$0.24139		(\$0.00784)		\$0.01132	\$0.01440	\$0.50582		
10,001-25,000 therms	\$0.19792	\$0.24139		(\$0.00784)		\$0.01132	\$0.01440	\$0.46719		
25,001-50,000 therms	\$0.18598	\$0.24139		(\$0.00784)		\$0.01132	\$0.01440	\$0.44525		
Over 50,000 therms	\$0.18203	\$0.24139		(\$0.00784)		\$0.01132	\$0.01440	\$0.44130		
Annual Minimum charge is 250,000 therms minus actual annual usage times								\$0.27731		

AVISTA UTILITIES  
 Schedule Summaries & Shortcuts  
 State of Washington - Natural Gas  
 Effective Date November 1, 2018

Schedule 146 - Transportation Service For Customer Owned Gas

Basic Charge	\$550.00				<b>\$550.00</b>
First 20,000 therms	\$0.09890	\$0.00058	(\$0.00354)	\$0.00074	<b>\$0.09466</b>
20,001-50,000 therms	\$0.08821	\$0.00058	(\$0.00354)	\$0.00074	<b>\$0.08397</b>
50,001-300,000 therms	\$0.07774	\$0.00058	(\$0.00354)	\$0.00074	<b>\$0.07550</b>
300,001-500,000 therms	\$0.07189	\$0.00058	(\$0.00354)	\$0.00074	<b>\$0.06965</b>
Over 500,000 therms	\$0.05403	\$0.00058	(\$0.00354)	\$0.00074	<b>\$0.05179</b>
Annual Minimum charge is 250,000 therms minus actual annual usage times					<b>\$0.06905</b>

Schedule 148

Monthly Rate	\$200.00
Plus:	Minimum ###

Normalized Usage by Month  
 Twelve Months Ended December 31, 2018  
 WASHINGTON GAS SYSTEM

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
<b>Revenue Run Billed Usage</b>													
Small Service Schedule 101	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
Large Service Schedule 111/112	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
Extra Large Service Schedule 121/122	547,571	455,180	474,318	397,963	332,257	303,323	280,882	293,436	282,153	342,721	412,245	(2,363,729)	1,768,320
Interrupt Service Schedule 131/132	139,102	117,328	113,117	93,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267
Transport Service Schedule 146	3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,275,935	2,340,543	3,067,907	3,261,051	35,607,936
Special Contract Transport	5,265,223	4,912,508	4,547,047	4,301,458	4,021,819	3,930,521	3,756,231	4,538,638	4,562,727	4,393,442	5,173,852	5,114,139	54,517,605
<b>Total Revenue Run Billed Usage</b>	41,845,271	33,084,467	34,271,544	26,122,430	16,725,496	11,566,402	10,520,741	10,612,638	11,231,494	15,005,016	23,917,026	34,582,858	269,485,383
<b>Adjustments to Revenue Runs</b>													
Schedule 121/122 Adjustments	(26,898)	(17,228)	(20,402)	(16,730)	(13,287)	(9,395)	(7,874)	(7,553)	(9,143)				(128,508)
Schedule 132 Adjustments													
Schedule 146 Adjustments	(26,898)	(17,228)	(20,402)	(16,730)	(13,287)	(9,395)	(7,874)	(7,553)	(9,143)				(128,508)
<b>Net Unbilled Usage</b>													
Small Service Schedule 101	(3,627,217)	792,412	(2,982,167)	(3,042,381)	(2,830,192)	(255,260)	(147,302)	130,266	638,100	3,105,368	4,733,169	1,645,863	(1,839,341)
Large Service Schedule 111/112	(1,398,759)	663,173	(1,183,036)	(889,852)	(931,502)	32,961	(100,104)	142,574	344,478	1,123,980	1,417,730	231,177	(547,180)
Extra Large Service Schedule 121/122	(119,441)	42,521	(77,373)	(45,834)	(48,353)	46,913	(2,048)	38,418	41,015	86,853	43,909	(159,399)	(152,819)
Interrupt Service Schedule 131/132													
Transport Service Schedule 146													
Special Contract Transport	(5,145,417)	1,498,106	(4,242,576)	(3,978,067)	(3,810,047)	(175,386)	(249,454)	311,258	1,023,593	4,316,201	6,194,808	1,717,641	(2,539,340)
<b>Net Unbilled Usage</b>	2,469,710	(917,801)	(187,839)	(13,799)	2,477,504	456,349				169,485	392,134	2,011,236	6,856,979
<b>Weather Adjustment</b>													
Small Service Schedule 101	792,369	(296,989)	(61,700)	(4,598)	817,214	151,843				56,255	128,342	656,337	2,239,073
Large Service Schedule 111/112	28,932	(10,775)	(2,195)	(197)	35,346	6,516				2,607	5,529	2,315	68,078
Extra Large Service Schedule 121/122													
Interrupt Service Schedule 131/132													
Transport Service Schedule 146													
Special Contract Transport	3,291,011	(1,225,565)	(251,734)	(18,594)	3,330,064	614,708				228,347	526,005	2,669,888	9,164,130
<b>Total Weather Adjustment</b>	22,749,974	17,283,080	15,602,673	9,757,851	5,768,557	3,089,807	2,296,430	2,216,074	3,080,268	8,570,192	15,967,978	22,603,095	128,985,980
<b>Normalized Test Year Usage</b>	7,411,818	6,927,545	5,552,459	4,272,174	3,031,243	2,081,120	1,481,185	1,593,610	1,958,155	3,744,512	5,877,900	10,398,084	54,329,806
Small Service Schedule 101	430,164	469,698	374,348	335,203	305,963	347,357	270,961	324,302	324,025	432,181	461,683	(2,520,813)	1,555,071
Large Service Schedule 111/112	139,102	117,328	113,117	93,219	72,901	47,470	41,737	43,515	44,834	68,694	88,519	114,831	985,267
Extra Large Service Schedule 121/122	3,967,685	3,629,622	3,567,188	3,349,134	3,031,743	2,500,055	2,416,869	2,200,204	2,275,935	2,340,543	3,067,907	3,261,051	35,607,936
Interrupt Service Schedule 131/132	5,265,223	4,912,508	4,547,047	4,301,458	4,021,819	3,930,521	3,756,231	4,538,638	4,562,727	4,393,442	5,173,852	5,114,139	54,517,605
Transport Service Schedule 146	39,963,967	33,339,780	29,756,832	22,109,040	16,232,226	11,996,330	10,263,413	10,916,343	12,245,944	19,549,564	30,637,839	38,970,387	275,981,664
Special Contract Transport													
<b>Total Normalized Test Year Usage</b>													



12.2018  
Normal/DDH  
Actual DDH

DDH Adjustment to Normal

Rate Group	Total	January	February	March	April	May	June	July	August	September	October	November	December
WA Res Sched 101	5,821,198	2,065,756	-768,632	-157,480	-11,868	2,129,131	392,269	0	0	0	145,531	337,438	1,689,053
No of Cust	1,49,668	148,402	148,270	149,129	148,905	149,242	149,146	149,489	149,789	148,593	152,165	151,209	151,675
Usage/DDH		0.0960	0.0960	0.0960	0.0797	0.0797	0.0797	0.0000	0.0000	0.0000	0.0797	0.0797	0.0960
WA Com Sched 101	1,024,965	399,314	-147,531	-30,030	-1,912	345,056	63,460	0	0	0	23,719	54,177	318,712
No of Cust	12,025	12,105	12,009	12,000	11,933	12,033	12,004	12,003	12,011	11,705	12,338	12,078	12,077
Usage/DDH		0.2275	0.2275	0.2275	0.1602	0.1602	0.1602	0.0000	0.0000	0.0000	0.1602	0.1602	0.2275
WA Ind Sched 101	10,816	4,640	-1,638	-329	-19	3,317	620	0	0	0	235	519	3,471
No of Cust	72	77	73	72	71	71	72	71	72	69	75	71	72
Usage/DDH		0.4156	0.4156	0.4156	0.2610	0.2610	0.2610	0.0000	0.0000	0.0000	0.2610	0.2610	0.4156
WA Res Sched 111	107,950	35,499	-12,855	-2,665	-233	41,528	7,629	0	0	0	2,892	6,679	29,476
No of Cust	288	290	282	287	285	284	283	285	284	283	295	292	301
Usage/DDH		0.8442	0.8442	0.8442	0.8169	0.8169	0.8169	0.0000	0.0000	0.0000	0.8169	0.8169	0.8442
WA Com Sched 111	2,071,543	737,988	-277,232	-57,576	-4,231	751,786	139,888	0	0	0	51,732	117,992	611,196
No of Cust	2,692	2,639	2,662	2,714	2,704	2,684	2,709	2,696	2,691	2,627	2,755	2,693	2,732
Usage/DDH		1.9286	1.9286	1.9286	1.5648	1.5648	1.5648	0.0000	0.0000	0.0000	1.5648	1.5648	1.9286
WA Ind Sched 111	59,580	18,882	-6,902	-1,459	-134	23,900	4,326	0	0	0	1,631	3,671	15,665
No of Cust	54	54	53	55	55	55	54	56	55	50	56	54	56
Usage/DDH		2.4115	2.4115	2.4115	2.4276	2.4276	2.4276	0.0000	0.0000	0.0000	2.4276	2.4276	2.4115
WA Com Sched 121	68,078	28,932	-10,775	-2,195	-197	35,346	6,516	0	0	0	2,607	5,529	2,315
No of Cust	19	20	20	20	20	20	20	20	21	17	22	20	2
Usage/DDH		9.9764	9.9764	9.9764	9.8732	9.8732	9.8732	0.0000	0.0000	0.0000	9.8732	9.8732	9.9764
ID Res Sched 101	2,660,629	938,596	-349,924	-71,353	-5,461	978,028	180,479	0	0	0	66,501	155,601	768,162
No of Cust	74,617	73,978	74,058	74,133	74,203	74,237	74,308	74,483	74,741	74,775	75,296	75,505	75,681
Usage/DDH		0.0875	0.0875	0.0875	0.0736	0.0736	0.0736	0.0000	0.0000	0.0000	0.0736	0.0736	0.0875
ID Com Sched 101	502,603	192,710	-71,796	-14,579	-964	172,203	31,860	0	0	0	11,698	27,121	154,350
No of Cust	7,625	7,625	7,628	7,604	7,629	7,611	7,638	7,624	7,606	7,528	7,712	7,663	7,634
Usage/DDH		0.1743	0.1743	0.1743	0.1264	0.1264	0.1264	0.0000	0.0000	0.0000	0.1264	0.1264	0.1743
ID Ind Sched 101	6,061	2,501	-931	-183	-11	1,931	356	0	0	0	132	302	1,964
No of Cust	54	55	55	53	54	54	54	52	56	53	55	54	54
Usage/DDH		0.3136	0.3136	0.3136	0.1998	0.1998	0.1998	0.0000	0.0000	0.0000	0.1998	0.1998	0.3136
ID Res Sched 111	26,753	9,505	-3,607	-735	-53	9,693	1,787	0	0	0	656	1,544	7,963
No of Cust	109	106	108	108	107	109	109	110	109	108	110	111	111
Usage/DDH		0.6184	0.6184	0.6184	0.4968	0.4968	0.4968	0.0000	0.0000	0.0000	0.4968	0.4968	0.6184

Adjustment No. 2.10

Worksheet Ref. G-WN-    

	Total	January	February	March	April	May	June	July	August	September	October	November	December
<b>12.2018</b>													
ID Com Sched 111	600,058	228,399	-86,296	-17,672	-1,135	204,491	37,727	0	0	0	13,800	31,869	188,875
No of Cust	1,341	1,306	1,325	1,332	1,342	1,351	1,352	1,348	1,338	1,347	1,360	1,346	1,350
Usage/DDH		1,2061	1,2061	1,2061	0.8456	0.8456	0.8456	0.0000	0.0000	0.0000	0.8456	0.8456	1,2061
ID Ind Sched 111	19,491	9,264	-3,450	-703	-27	5,001	898	0	0	0	335	762	7,411
No of Cust	38	38	38	38	38	39	38	38	38	37	39	38	38
Usage/DDH		1,6813	1,6813	1,6813	0.7164	0.7164	0.7164	0.0000	0.0000	0.0000	0.7164	0.7164	1,6813
WA subtotal	9,164,130	3,291,011	-1,225,565	-251,734	-18,594	3,330,064	614,708	0	0	0	228,347	526,005	2,669,888
ID subtotal	3,815,595	1,380,975	-516,004	-105,225	-7,651	1,371,347	253,107	0	0	0	93,122	217,199	1,128,725
Summarize by Schedule													
WA 101	6,856,979	2,469,710	-917,801	-187,839	-13,799	2,477,504	456,349	0	0	0	169,485	392,134	2,011,236
WA 111	2,239,073	792,369	-296,989	-61,700	-4,598	817,214	151,843	0	0	0	56,255	128,342	656,337
WA 121	68,078	28,932	-10,775	-2,195	-197	35,346	6,516	0	0	0	2,607	5,529	2,315
ID 101	3,169,293	1,133,807	-422,651	-86,115	-6,436	1,152,162	212,695	0	0	0	78,331	183,024	924,476
ID 111	646,302	247,168	-93,353	-19,110	-1,215	219,185	40,412	0	0	0	14,791	34,175	204,249

Prep by: \_\_\_\_\_ 1st Review: \_\_\_\_\_

Date: 4/24/2019 Mgr. Review: \_\_\_\_\_

**Weather Sensitivity Regression Summary for January 2007 through 2016**

Adj R <sup>2</sup>	Dependent Variable	Shoulder Mo Heating	Winter Mo Heating	Usage/Cust Base Load	Usage/Cust 2016 Low	Durbin Watson Test Result
		Apr, May, Jun, Oct, Nov	Dec, Jan, Feb, Mar			
<b>Washington Gas</b>						
0.986	WR101	0.0797	0.0960	13	14 ✓	No Autocorrelation
0.978	WC101	0.1602	0.2275	9	17	No Autocorrelation
0.959	WI101	0.2610	0.4156	0	6	Corrected with AR(1)
0.985	WT101	0.0860	0.1066	13	14	No Autocorrelation
0.954	WR111	0.8169	0.8442	445	367	Corrected with AR(1)
0.987	WC111	1.5648	1.9286	500	500	No Autocorrelation
0.865	WI111	2.4276	2.4115	2,112	1,870	Corrected with AR(1)
0.987	WT111	1.4752	1.8123	522	514 ✓	No Autocorrelation
0.933	WC121	9.8732	9.9764	11,281	9,519	Corrected with AR(1),(2)
0.908	WT121	8.7347	10.0304	10,807	9,776 ✓	Corrected with AR(1)
<b>Idaho Gas</b>						
0.991	IR101	0.0736	0.0875	12	13	No Autocorrelation
0.972	IC101	0.1264	0.1743	0	10	Corrected with AR(1)
0.966	II101	0.1998	0.3136	0	5	Corrected with AR(1)
0.989	IT101	0.0797	0.0979	10	13	No Autocorrelation
0.953	IR111	0.4968	0.6184	344	274	Corrected with AR(1),(2)
0.974	IC111	0.8456	1.2061	661	663	No Autocorrelation
0.775	II111	0.7164	1.6813	4,208	3208	No Autocorrelation
0.974	IT111	0.8121	1.1765	714	730	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: \_\_\_\_\_

Date: 4/24/2019 Mgr. 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



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](http://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 1<sup>st</sup> 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

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## 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 1**Avista 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
<b>Total</b>	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)
<b>Total</b>	-	-	-	-	-	-	-	-	-	(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
<b>Total</b>	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
<b>Total</b>	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
<b>Total</b>	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
<b>Total</b>	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
<b>Total</b>	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
<b>Present Base Rates</b>			<b>\$ 0.48088</b>	<b>\$ 0.34850</b>	<b>\$ 0.26767</b>	<b>\$ 0.21692</b>	<b>\$ 0.14387</b>	
		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		
<b>Present Base Rates</b>			<b>\$ 0.48625</b>	<b>\$ 0.33354</b>	<b>\$ 0.25424</b>			
		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
<b>Revised Present Base Rates</b>			<b>\$ 0.48625</b>	<b>\$ 0.33354</b>	<b>\$ 0.25424</b>	<b>\$ 0.21692</b>	<b>\$ 0.15217</b>	
		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							
	<b>126779</b>							
	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
<b>Proposed Base Rates</b>			<b>\$ 0.56955</b>	<b>\$ 0.37851</b>	<b>\$ 0.28852</b>	<b>\$ 0.24617</b>	<b>\$ 0.17269</b>	
		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%