

AVISTA UTILITIES

2018 Washington PGA Filing

ATTACHMENT “E”

Workpapers

August 17, 2018

Title	Description	Page Number
TARRIF CHANGE COMPARISONS		
Total Revenue Change'!A1	Total Revenue Change by Rate Schedule	2
Rate Schedule Change 150'!A1	Rate Schedule 150 current, proposed and changes	3
Rate Schedule Change 155'!A1	Rate Schedule 155 current, proposed and changes	4
PGA COMPONENT CALCULATIONS		
Input '!A1	Input for Commodity	5
Commodity!A1	Commodity output and WACOG calculation	6
Demand '!A1	Demand output and WACOG calculation	7
Input - Demand Contracts	Input - Demand Contracts	8
Input - Amortization Balances'!A1	Amortization balances Input	9
Amortization Calculation'!A1	Amortization calculation by rate schedule	10
OTHER		
Conversion Factor'!A1	Revenue Conversion Factor	11

**Avista Utilities
State of Washington
Total Revenue Change**

Line No.	Total Revenue Change			% Change Calculation		
	Rate Schedule 150	Rate Schedule 155	Total	Total GRC Billed Revenue*	% Change	
1	Rate Schedule 101/102	\$ 196,120	\$ (140,447)	\$ 55,673	\$ 104,202,001	0.1%
2	Rate Schedule 111/112	\$ 14,238	\$ (109,563)	\$ (95,325)	\$ 28,908,087	-0.3%
3	Rate Schedule 121/122	\$ (27,697)	\$ (18,623)	\$ (46,320)	\$ 2,300,670	-2.0%
4	Rate Schedule 131/132	\$ 3,441	\$ (26,086)	\$ (22,645)	\$ 455,758	-5.0%
5	Rate Schedule 146	\$ -	\$ -	\$ -	\$ 3,175,045	0.0%
6	Rate Schedule 148	\$ -	\$ -	\$ -	\$ 1,330,027	0.0%
7	Total	\$ 186,102	\$ (294,719)	\$ (108,617)	\$ 140,371,588	-0.1%
8						

Schedule 155 Recon:	Prior	Current	Change
Change from Schedule 155 Change	(16,522,368)	(16,753,642)	(231,274)
Rate Schedule 112 Amort Balance	0	(20,528)	(20,528)
Rate Schedule 122 Amort Balance	(53,346)	(70,177)	(16,831)
Rate Schedule 132 Amort Balance	(76,659)	(102,745)	(26,086)
Total	(16,652,373)	(16,947,092)	(294,719)

*Normalized Billing Determinants, priced at current rates.

Avista Utilities
State of Washington
Rate Schedule Changes for 150
(Commodity and Demand)

Summary of Changes		Rate Schedule 150					
		Without Revenue Sensitive Costs			With Revenue Sensitive Costs		
Line No.	Present	Demand	Commodity	Total Gas Cost Rate	Demand	Commodity	Total Gas Cost Rate
1	Rate Schedule 101/102	\$0.10744	\$0.16436	\$0.27180	\$0.11261	\$0.17227	\$0.28488
2	Rate Schedule 111/112	\$0.09865	\$0.16436	\$0.26301	\$0.10341	\$0.17227	\$0.27568
3	Rate Schedule 121/122	\$0.10433	\$0.16436	\$0.26869	\$0.10936	\$0.17227	\$0.28163
4	Rate Schedule 131/132	\$0.06248	\$0.16436	\$0.22684	\$0.06548	\$0.17227	\$0.23775
5	Rate Schedule 146/126,116	\$0.00054	\$0.00000	\$0.00054	\$0.00056	\$0.00000	\$0.00056
6							
7	Proposed						
8	Rate Schedule 101/102	\$0.10239	\$0.17067	\$0.27306	\$0.10740	\$0.17903	\$0.28643
9	Rate Schedule 111/112	\$0.09239	\$0.17067	\$0.26306	\$0.09691	\$0.17903	\$0.27594
10	Rate Schedule 121/122	\$0.09225	\$0.17067	\$0.26292	\$0.09677	\$0.17903	\$0.27580
11	Rate Schedule 131/132	\$0.05950	\$0.17067	\$0.23017	\$0.06241	\$0.17903	\$0.24144
12	Rate Schedule 146/126,116	\$0.00054	\$0.00000	\$0.00054	\$0.00056	\$0.00000	\$0.00056
13							
14	Change						
15	Rate Schedule 101/102	(\$0.00505)	\$0.00631	\$0.00126	(\$0.00521)	\$0.00676	\$0.00155
16	Rate Schedule 111/112	(\$0.00626)	\$0.00631	\$0.00005	(\$0.00650)	\$0.00676	\$0.00026
17	Rate Schedule 121/122	(\$0.01208)	\$0.00631	(\$0.00577)	(\$0.01259)	\$0.00676	(\$0.00583)
18	Rate Schedule 131/132	(\$0.00298)	\$0.00631	\$0.00333	(\$0.00307)	\$0.00676	\$0.00369
19	Rate Schedule 146/126,116	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000	\$0.00000

Revenue Change		
Revenue at Present Rates		
	Volume	Revenue
Rate Schedule 101/102	126,528,897	\$ 36,045,552
Rate Schedule 111/112	54,761,390	\$ 15,096,620
Rate Schedule 121/122	4,750,704	\$ 1,337,941
Rate Schedule 131/132	932,543	\$ 221,712
Rate Schedule 146/126,116	36,826,388	\$ 20,623
Total	223,799,922	52,722,448
Revenue at Proposed Rates		
Rate Schedule 101/102	126,528,897	\$ 36,241,672
Rate Schedule 111/112	54,761,390	\$ 15,110,858
Rate Schedule 121/122	4,750,704	\$ 1,310,244
Rate Schedule 131/132	932,543	\$ 225,153
Rate Schedule 146/126,116	36,826,388	\$ 20,623
Total	223,799,922	52,908,550
Revenue Change		
Rate Schedule 101/102	126,528,897	\$ 196,120
Rate Schedule 111/112	54,761,390	\$ 14,238
Rate Schedule 121/122	4,750,704	\$ (27,697)
Rate Schedule 131/132	932,543	\$ 3,441
Rate Schedule 146/126,116	36,826,388	\$ -
Total	223,799,922	186,102

Avista Utilities
State of Washington
Rate Schedule Changes for 155
Amortization Rate

Summary of Changes		Rate Schedule 155	
Line No.		Total Gas Cost Rate Without Revenue Sensitive Costs	Total Gas Cost Rate With Revenue Sensitive Costs
Present			
1	Rate Schedule 101/102	(\$0.09067)	(\$0.09504)
2	Rate Schedule 111	(\$0.07475)	(\$0.07835)
3	Rate Schedule 121	(\$0.04745)	(\$0.04973)
4	Rate Schedule 131	\$0.00000	\$0.00000
5	Rate Schedule 146	\$0.00000	\$0.00000
Proposed			
8	Rate Schedule 101/102	(\$0.09166)	(\$0.09615)
9	Rate Schedule 111	(\$0.07625)	(\$0.07998)
10	Rate Schedule 121	(\$0.04780)	(\$0.05014)
11	Rate Schedule 131	\$0.00000	\$0.00000
12	Rate Schedule 146	\$0.00000	\$0.00000
Change			
15	Rate Schedule 101/102	\$0.00099	(\$0.00111)
16	Rate Schedule 111	\$0.00150	(\$0.00163)
17	Rate Schedule 121	\$0.00035	(\$0.00041)
18	Rate Schedule 131	\$0.00000	\$0.00000
19	Rate Schedule 146	\$0.00000	\$0.00000

RCF

1.04896

Note: 122 and 132 receive annual lump sum payments for their portion of the deferral and therefore and not included in the overall amortization rate.
Rate schedules 116 and 126

Revenue Change		
Revenue at Present Rates		
	Volume	Revenue
Rate Schedule 101/102	126,528,897	\$ (12,025,306)
Rate Schedule 111	54,622,969	\$ (4,279,710)
Rate Schedule 121	4,370,649	\$ (217,352)
Rate Schedule 131		\$ -
Rate Schedule 146		\$ -
Total	185,522,515	(16,522,368)
Revenue at Proposed Rates		
Rate Schedule 101/102	126,528,897	\$ (12,165,753)
Rate Schedule 111	54,622,969	\$ (4,368,745)
Rate Schedule 121	4,370,649	\$ (219,144)
Rate Schedule 131	-	\$ -
Rate Schedule 146		\$ -
Total	185,522,515	(16,753,642)
Revenue Change		
Rate Schedule 101/102	126,528,897	\$ (140,447)
Rate Schedule 111	54,622,969	\$ (89,035)
Rate Schedule 121	4,370,649	\$ (1,792)
Rate Schedule 131	-	\$ -
Rate Schedule 146	\$0.00000	\$ -
Total	185,522,515	(231,274)

STATE OF WASHINGTON
ANNUAL PGA FILING

*AN -- Allocated North sum of Washington + Idaho

Line
No.

VOLUME FORECAST													
	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Total
1	Demand Forecast												
2	15,387,692	22,977,493	22,572,393	18,044,864	14,969,819	9,451,270	5,030,518	2,846,317	2,184,405	2,479,638	2,527,740	8,056,748	126,528,897
3	7,062,090	8,755,907	8,940,258	6,647,982	6,028,813	3,798,877	2,303,539	1,563,099	1,652,404	1,404,500	2,196,048	4,407,873	54,761,390
4	620,911	527,350	575,525	472,333	434,669	313,430	252,836	211,227	281,351	238,626	327,760	494,686	4,750,704
5	23,070,693	32,260,750	32,088,176	25,165,179	21,433,301	13,563,577	7,586,893	4,620,643	4,118,160	4,122,764	5,051,548	12,959,307	186,040,991
6	118,749	130,309	138,402	110,424	100,573	69,932	51,174	38,319	44,256	24,593	35,201	70,611	932,543
7	23,189,442	32,391,059	32,226,578	25,275,603	21,533,874	13,633,509	7,638,067	4,658,962	4,162,416	4,147,357	5,086,749	13,029,918	186,973,534
8	373,732	321,678	323,887	381,505	362,454	216,402	120,977	73,721	112,190	112,090	137,520	290,665	2,826,821
9	23,563,174	32,712,737	32,550,465	25,657,108	21,896,328	13,849,911	7,759,044	4,732,683	4,274,606	4,259,447	5,224,269	13,320,583	189,800,355
10													
11	COMMODITY												
Commodity Allocation (based on Calendar													
12	68.24%	68.68%	69.46%	69.80%	68.77%	68.15%	66.14%	65.06%	64.56%	64.46%	65.57%	68.58%	
13													
14	Hedges												
15	Executed												
16	13,986,500	14,957,500	14,957,500	13,207,000	14,376,250	2,310,000	2,387,000	2,310,000	2,387,000	2,387,000	2,310,000	2,387,000	87,962,750
17	\$ 3,860,226	\$ 4,053,154	\$ 4,058,734	\$ 3,652,581	\$ 3,964,048	\$ 356,567	\$ 368,452	\$ 356,567	\$ 368,452	\$ 368,452	\$ 356,567	\$ 368,452	\$ 22,132,252
18													
19	9,544,388	10,272,811	10,389,480	9,218,486	9,886,547	1,574,265	1,578,762	1,502,886	1,541,047	1,538,660	1,514,667	1,637,005	60,199,004
20	2,634,218	2,783,706	2,819,197	2,549,502	2,726,076	243,000	243,694	231,982	237,873	237,504	233,801	252,684	15,193,237
21	\$ 0.27600	\$ 0.27098	\$ 0.27135	\$ 0.27656	\$ 0.27574	\$ 0.15436	\$ 0.15436	\$ 0.15436	\$ 0.15436	\$ 0.15436	\$ 0.15436	\$ 0.15436	\$ 0.252380
22													
23													
24	Deferred Exchange Credits												
25	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	\$ (375,000)	(4,500,000)
26	\$ (255,900)	\$ (257,550)	\$ (260,475)	\$ (261,750)	\$ (257,888)	\$ (255,563)	\$ (248,025)	\$ (243,975)	\$ (242,100)	\$ (241,725)	\$ (245,888)	\$ (257,175)	(3,028,014)
27													
28	Price Forecast (per Dth)												
29	30 Day average Price based on: 07-31-2018												
30	1.378	1.494	1.586	1.574	1.437	1.123	1.088	1.127	1.201	1.198	1.185	1.221	
31	2.313	2.971	2.843	2.427	2.079	1.377	1.359	1.391	1.711	1.727	1.703	1.825	
32	2.236	2.510	2.657	2.543	2.119	1.783	1.770	1.804	1.984	1.996	1.966	1.961	
33													
34	Basin Weighting												
35	69%	74%	92%	85%	95%	93%	96%	100%	100%	100%	100%	90%	93%
36	14%	1%	2%	0%	2%	6%	4%	0%	0%	0%	0%	8%	2%
37	17%	25%	6%	15%	3%	0%	0%	0%	0%	0%	0%	2%	5%
38													
39	\$ 1.6548	\$ 1.7628	\$ 1.6754	\$ 1.7194	\$ 1.4703	\$ 1.1270	\$ 1.0988	\$ 1.1270	\$ 1.2010	\$ 1.1980	\$ 1.1850	\$ 1.2841	
40	14,018,786	22,439,926	22,160,985	16,438,622	12,009,781	12,275,646	6,180,282	3,229,797	2,733,559	2,720,787	3,709,602	11,683,578	-
41	\$ 2,319,829	\$ 3,955,710	\$ 3,712,851	\$ 2,826,457	\$ 1,765,798	\$ 1,383,465	\$ 679,089	\$ 363,998	\$ 328,300	\$ 325,950	\$ 439,588	\$ 1,500,288	\$ 19,601,323
42													
43													
44	Embedded Charges												
45	\$ 11,702	\$ 10,808	\$ 10,736	\$ 11,723	\$ 11,442	\$ 22,212	\$ 20,751	\$ 14,602	\$ 6,107	\$ 6,093	\$ 6,284	\$ 11,349	143,809
46													
47													
48	\$ 4,709,849	\$ 6,492,674	\$ 6,282,309	\$ 5,125,932	\$ 4,245,428	\$ 1,393,114	\$ 695,509	\$ 366,607	\$ 330,180	\$ 327,822	\$ 433,785	\$ 1,507,146	\$ 31,910,355

Avista Utilities
 State of Washington
 Gas Cost Calculation (per Therm)

	Executed Hedges		Index Cost		Total Cost to Serve Average Load (including fuel)		Variable Charges	Deferred Exchange	Total Estimated Commodity Costs
	Volumes (a)	Dollars (b)	Volumes (c)	Dollars (d)	Volumes e) = (a) + (c)	Dollars (f) = (b) + (d)	Dollars (g)	Dollars (h)	Dollars (i)
Nov-18	9,544,388	\$ 2,634,218	14,018,786	\$ 2,319,829	23,563,174	\$ 4,954,047	\$ 11,702	\$ (255,900)	\$ 4,709,849
Dec-18	10,272,811	\$ 2,783,706	22,439,926	\$ 3,955,710	32,712,737	\$ 6,739,416	\$ 10,808	\$ (257,550)	\$ 6,492,674
Jan-19	10,389,480	\$ 2,819,197	22,160,985	\$ 3,712,851	32,550,465	\$ 6,532,048	\$ 10,736	\$ (260,475)	\$ 6,282,309
Feb-19	9,218,486	\$ 2,549,502	16,438,622	\$ 2,826,457	25,657,108	\$ 5,375,959	\$ 11,723	\$ (261,750)	\$ 5,125,932
Mar-19	9,886,547	\$ 2,726,076	12,009,781	\$ 1,765,798	21,896,328	\$ 4,491,874	\$ 11,442	\$ (257,888)	\$ 4,245,428
Apr-19	1,574,265	\$ 243,000	12,275,646	\$ 1,383,465	13,849,911	\$ 1,626,465	\$ 22,212	\$ (255,563)	\$ 1,393,114
May-19	1,578,762	\$ 243,694	6,180,282	\$ 679,089	7,759,044	\$ 922,783	\$ 20,751	\$ (248,025)	\$ 695,509
Jun-19	1,502,886	\$ 231,982	3,229,797	\$ 363,998	4,732,683	\$ 595,980	\$ 14,602	\$ (243,975)	\$ 366,607
Jul-19	1,541,047	\$ 237,873	2,733,559	\$ 328,300	4,274,606	\$ 566,173	\$ 6,107	\$ (242,100)	\$ 330,180
Aug-19	1,538,660	\$ 237,504	2,720,787	\$ 325,950	4,259,447	\$ 563,454	\$ 6,093	\$ (241,725)	\$ 327,822
Sep-19	1,514,667	\$ 233,801	3,709,602	\$ 439,588	5,224,269	\$ 673,389	\$ 6,284	\$ (245,888)	\$ 433,785
Oct-19	1,637,005	\$ 252,684	11,683,578	\$ 1,500,288	13,320,583	\$ 1,752,972	\$ 11,349	\$ (257,175)	\$ 1,507,146
Average	60,199,004	\$ 15,193,237	129,601,351	\$ 19,601,323	189,800,355	\$ 34,794,560	\$ 143,809	\$ (3,028,014)	\$ 31,910,355
		\$ 0.25238		\$ 0.1512		\$ 0.1833			
		31.7%		68.3%					

Sales Volumes (to customers)	WACOG
(j)	(k)
23,189,442	\$ 0.20310
32,391,059	\$ 0.20045
32,226,578	\$ 0.19494
25,275,603	\$ 0.20280
21,533,874	\$ 0.19715
13,633,509	\$ 0.10218
7,638,067	\$ 0.09106
4,658,962	\$ 0.07869
4,162,416	\$ 0.07932
4,147,357	\$ 0.07904
5,086,749	\$ 0.08528
13,029,918	\$ 0.11567
186,973,534	\$ 0.17067

RCF: 1.048960

Proposed Rate	
Proposed WACOG without RCF	\$ 0.17067
Proposed WACOG with RCF	\$ 0.17903

Current	
WACOG without RCF	\$ 0.16436
WACOG with RCF	\$ 0.17227

Change \$ 0.00676
 \$ 1,263,941

Avista Utilities
Demand Gas Cost Calculation
State of Washington

RCF 1.04896

	Total	Schedule 101	Schedule 111/112	Schedule 121/122	Schedule 131/132	Schedule 146
Line Volumes						
7 Total Washington Demand Costs	<u>\$18,527,935</u>					
1 Total Estimated Sales Volumes	223,799,922	126,528,897	54,761,390	4,750,704	932,543	36,826,388
2	100%	67.67%	29.29%	2.54%	0.50%	
3						
4 Coincident Peak - Three Year Average (UG-170486)	1,299,175	954,637	317,147	27,391		
5	100%	73.48%	24.41%	2.11%	0.00%	0%
6						
8 60 % Demand Portion (based on volumes)	\$11,116,761	\$ 7,509,255	\$ 3,250,275	\$ 281,861	\$ 55,484	\$ 19,886
9 40 % Demand Portion (based on Coincident Peak)	\$7,411,174	\$ 5,445,731	\$ 1,809,068	\$ 156,376	\$ -	\$ -
Total	\$18,527,935	\$12,954,986	\$5,059,343	\$438,237	\$55,484	\$19,886
10		69.92%	27.31%	2.37%	0.30%	0.11%
11 Calculation of Rate - Proposed						
12 60 % Demand Portion (based on volumes)		\$ 0.05935	\$ 0.05935	\$ 0.05933	\$ 0.05950	\$ 0.00054
13 40 % Demand Portion (based on Coincident Peak)		\$ 0.04304	\$ 0.03304	\$ 0.03292		\$ -
14 Proposed Rate without Revenue Conversion		\$ 0.10239	\$ 0.09239	\$ 0.09225	\$ 0.05950	\$ 0.00054
15						
16						
17 60 % Demand Portion (based on volumes)		\$ 0.06226	\$ 0.06226	\$ 0.06223	\$ 0.06241	\$ 0.00056
18 40 % Demand Portion (based on Coincident Peak)		\$ 0.04515	\$ 0.03466	\$ 0.03453	\$ -	\$ -
19 Proposed Rate with Revenue Conversion		\$ 0.10740	\$ 0.09691	\$ 0.09677	\$ 0.06241	\$ 0.00056
	Proposed	\$ 0.10740	\$ 0.09691	\$ 0.09677	\$ 0.06241	\$ 0.00056
	Previous	\$ 0.11261	\$ 0.10341	\$ 0.10936	\$ 0.06548	\$ 0.00056

Avista Utilities
 WA Gas Operations
 Demand Cost Calculation (per Therm)

Line No.	Description	Estimated Demand Expense (AN)	Allocator	5 Day Peak Allocation Percentage	WA Allocation
1	Northwest Pipeline Corporation (NWP)	\$ 16,294,068	WA System Allocated	69.10%	\$ 11,259,201
2					
3	TCPL - Gas Transmission Northwest	\$ 2,614,309	WA System Allocated	69.10%	\$ 1,806,488
4					
5	Total Fixed Domestic Transportation Costs	18,908,377			\$ 13,065,689
6					
7	TransCanada - AB (NOVA System)	\$ 4,681,428	WA System Allocated	69.10%	\$ 3,234,867
8					
9	TransCanada - BC (Foothills Pipe Line Ltd.)	\$ 2,239,692	WA System Allocated	69.10%	\$ 1,547,627
10					
11	Spectra - Westcoast Energy Inc	\$ 983,722	WA System Allocated	69.10%	\$ 679,752
12					
13	Total Fixed Canadian Transportation Costs	\$ 7,904,842			\$ 5,462,246
14					
15	Total Fixed Pipeline Charges	\$ 26,813,219			\$ 18,527,935
16					
17	Demand Costs	\$ 26,813,219			\$ 18,527,935
18	Demand Volumes				186,040,991
19	Demand Rate				\$ 0.09959

Avista Utilities
 State of Washington
 Schedule 155 - Temporary Refunds/Charges

	Amortization Acct 191000 Est. Balance At 6/30/18	Current Deferrals (Acct 191010) At 6/30/18	Total for Amortization
Rate Schedule 112	(426.56)	(20,101.06)	(20,527.62)
Rate Schedule 122	(106.43)	(70,070.17)	(70,176.60)
Rate Schedule 132	(555.54)	(102,189.13)	(102,744.67)
Schedule 101 & 102	(42,984.66)	(11,379,446.24)	(11,422,430.90)
Schedule 111	(259,503.59)	(3,845,933.29)	(4,105,436.88)
Schedule 121	(20,485.52)	(202,120.14)	(222,605.66)
Schedule 131	0.00	0.00	0.00
Schedule 146		0.00	0.00
Total	<u>(324,062.30)</u>	<u>(15,619,860.03)</u>	<u>(15,943,922.33)</u>
		Amortization Only	\$ (15,750,473.44)
		Large Customers	\$ (193,448.89)
			<u>\$ (15,943,922.33)</u>

Avista Utilities
 State of Washington
 Development of Amortization Rate

RCF 1.04896

AMORTIZATION RATE CALCULATION

Schedule 101

	Amort Rate	with RCF	Interest	Balance	Volume
Total	(0.09166)	(0.09615)	4.69%	\$(11,422,430.90)	126,528,897
Nov/18	15,387,692	1,410,435.85	(41,886)	\$ (10,053,881)	
Dec/18	22,977,493	2,106,117.01	(35,178.21)	\$ (7,982,942)	
Jan/19	22,572,393	2,068,985.54	(27,156.86)	\$ (5,941,113)	
Feb/19	18,044,864	1,653,992.23	(19,987.67)	\$ (4,307,108)	
Mar/19	14,969,819	1,372,133.61	(14,152.24)	\$ (2,949,127)	
Apr/19	9,451,270	866,303.41	(9,833.27)	\$ (2,092,657)	
May/19	5,030,518	461,097.28	(7,277.74)	\$ (1,638,837)	
Jun/19	2,846,317	260,893.42	(5,895.29)	\$ (1,383,839)	
Jul/19	2,184,405	200,222.56	(5,017.24)	\$ (1,188,634)	
Aug/19	2,479,638	227,283.62	(4,201.43)	\$ (965,552)	
Sep/19	2,527,740	231,692.65	(3,320.93)	\$ (737,180)	
Oct/19	8,056,748	738,481.52	(1,438.03)	\$ (137)	
	126,528,897	11,597,639	(175,345)	\$ -	

Schedule 111

	Amort Rate	with RCF	Interest	Balance	Volume
Total	(0.07625)	(0.07998)	4.69%	\$ (4,105,436.88)	54,761,390
Nov/18	7,062,090	538,484.36	\$ (14,993)	\$ (3,581,946)	
Dec/18	8,755,907	667,637.91	\$ (12,695)	\$ (2,927,003)	
Jan/19	8,940,258	681,694.67	\$ (10,108)	\$ (2,255,416)	
Feb/19	6,647,982	506,908.63	\$ (7,824)	\$ (1,756,331)	
Mar/19	6,028,813	459,696.99	\$ (5,966)	\$ (1,302,600)	
Apr/19	3,798,877	289,664.37	\$ (4,525)	\$ (1,017,461)	
May/19	2,303,539	175,644.85	\$ (3,633)	\$ (845,449)	
Jun/19	1,563,099	119,186.30	\$ (3,071)	\$ (729,334)	
Jul/19	1,652,404	125,995.81	\$ (2,604)	\$ (605,942)	
Aug/19	1,404,500	107,093.13	\$ (2,159)	\$ (501,008)	
Sep/19	2,196,048	167,448.66	\$ (1,631)	\$ (335,190)	
Oct/19	4,407,873	336,100.32	\$ (653)	\$ 257	
	54,761,390	4,175,556	\$ (69,862)	\$ -	

Schedule 121

	Amort Rate	with RCF	Interest	Balance	Volume
Total	(0.04780)	(0.05014)	4.69%	\$ (222,605.66)	4,750,704
Nov/18	620,911	29,680	\$ (812)	\$ (193,738)	
Dec/18	527,350	25,207	\$ (708)	\$ (169,239)	
Jan/19	575,525	27,510	\$ (608)	\$ (142,337)	
Feb/19	472,333	22,578	\$ (512)	\$ (120,271)	
Mar/19	434,669	20,777	\$ (429)	\$ (99,923)	
Apr/19	313,430	14,982	\$ (361)	\$ (85,302)	
May/19	252,836	12,086	\$ (310)	\$ (73,526)	
Jun/19	211,227	10,097	\$ (268)	\$ (63,697)	
Jul/19	281,351	13,449	\$ (223)	\$ (50,471)	
Aug/19	238,626	11,406	\$ (175)	\$ (39,240)	
Sep/19	327,760	15,667	\$ (123)	\$ (23,696)	
Oct/19	494,686	23,646	\$ (46)	\$ (96)	
	4,750,704	227,085	\$ (4,575)	\$ -	

Total \$(15,750,473.44)
 check \$(15,750,473.44)

AVISTA UTILITIES
Revenue Conversion Factor
Washington - Electric System
TWELVE MONTHS ENDED DECEMBER 31, 2016

<u>Line No.</u>	<u>Description</u>	<u>Factor</u>
1	Revenues	1.000000
	Expense:	
2	Uncollectibles	0.006183
3	Commission Fees	0.002000
4	Washington Excise Tax	0.038495
5	Franchise Fees	0.000000
6	Total Expense	0.046678
7	Net Operating Income Before FIT	0.953322
8	Federal Income Tax @ 21%	<u>0.200198</u>
9	REVENUE CONVERSION FACTOR	<u><u>0.753124</u></u>
	REVENUE GROSS UP:	1/(1-.046677) 1.04896

Source: UE-170486