

BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

DOCKET NO. UE-19 _____

ELECTRIC WORKPAPERS

JOSEPH D. MILLER

REPRESENTING AVISTA CORPORATION

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	TOTAL	RESIDENTIAL SCHEDULE 1.2	GENERAL SVC. SCH. 11,12	LG. GEN. SVC. SCH. 21,22	EX LG GEN SVC SCHEDULE 25	PUMPING SCH. 30, 31, 32	ST & AREA LTG SCH. 41-48
PRESENT BILL DETERMINANTS							
KILOWATT HOURS (KWHS)							
JDM-E-10		1,605,882,414	430,539,202	1,232,886,422	138,000,000	47,992,445	
JDM-E-10		487,014,728	192,163,371	147,453,504	561,355,023	97,815,247	
JDM-E-10		273,738,140			414,208,989		
JDM-E-20							18,542,032
	SUBTOTAL	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
JDM-E-10	SUBTOTAL	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
JDM-E-3	ADJUSTMENT TO ACTUAL	0	0	0	0	0	0
	TOTAL BEFORE ADJUSTMENT	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
	WEATHER & UNBILLED ADJ. KWHS	(9,748,691)	8,068,407	(3,396,621)	(14,435,302)	0	14,825
	TOTAL PROFORMA KWHS	5,637,842,825	2,374,703,689	619,305,952	1,365,904,624	145,822,517	18,542,032
JDM-E-10	TOTAL BILLS	2,587,975	386,800	22,787	276	29,446	
JDM-E-10	MINIMUM BILLS						
JDM-E-10	EXCESS DEMAND		433,207	2,634,662	1,279,394		
PROPOSED BILL DETERMINANTS							
KILOWATT HOURS (KWHS)							
JDM-E-10		1,605,882,414	430,539,202	1,232,886,422	138,000,000	47,992,445	0
JDM-E-10		487,014,728	192,163,371	147,453,504	561,355,023	97,815,247	0
JDM-E-10		273,738,140	0	0	414,208,989	0	0
JDM-E-10		0	0	0	0	0	0
JDM-E-10		0	0	0	0	0	18,542,032
	SUBTOTAL	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
	SUBTOTAL	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
	ADJUSTMENT TO ACTUAL	0	0	0	0	0	0
	TOTAL BEFORE ADJUSTMENT	5,647,591,516	2,366,635,282	622,702,573	1,380,339,926	145,807,692	18,542,032
	WEATHER & UNBILLED ADJ. KWHS	(9,748,691)	8,068,407	(3,396,621)	(14,435,302)	0	14,825
	TOTAL PROFORMA KWHS	5,637,842,825	2,374,703,689	619,305,952	1,365,904,624	145,822,517	18,542,032
	TOTAL BILLS	2,587,975	386,800	22,787	276	29,446	
	MINIMUM BILLS						
	EXCESS DEMAND		433,207	2,634,662	1,279,394		

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	RESIDENTIAL GENERAL SVC. LG. GEN. SVC. EX LG GEN SVC PUMPING ST & AREA LTG						
	TOTAL	SCH. 11,12	SCH. 21,22	SCHEDULE 25	SCH. 30, 31, 32	SCH. 41-48	
PRESENT RATES							
JDM-E-21	\$9.00	\$20.00				\$20.00	
BASIC CHARGE							
MONTHLY MINIMUM							
JDM-E-21	7.533¢	11.349¢	7.189¢	5.505¢		9.712¢	
JDM-E-21	8.765¢	8.341¢	6.430¢	4.953¢		6.936¢	
JDM-E-21	10.276¢			4.235¢			
BLOCK 1 PER KWH							
BLOCK 2 PER KWH							
BLOCK 3 PER KWH							
BLOCK 4 PER KWH							
ADJUST TO ACTUAL PER KWH							
JDM-E-21	8.104¢	10.421¢	7.108¢			7.850¢	
JDM-E-21			\$500.00	\$24,000.00			
JDM-E-21	\$6.50	\$6.50	\$6.50	\$6.50			
DEMAND BLOCK 1							
DEMAND BLOCK 2							
PROPOSED RATES							
BASIC CHARGE							
MONTHLY MINIMUM							
JDM-E-21	\$9.00	\$20.00				\$20.00	
JDM-E-21	8.379¢	12.274¢	7.856¢	5.992¢		10.643¢	
JDM-E-21	9.750¢	9.021¢	7.024¢	5.392¢		7.602¢	
JDM-E-21	11.430¢			4.610¢			
BLOCK 1 PER KWH							
BLOCK 2 PER KWH							
BLOCK 3 PER KWH							
BLOCK 4 PER KWH							
ADJUST TO ACTUAL PER KWH							
JDM-E-21	9.014¢	11.270¢	7.767¢			8.603¢	
JDM-E-21			\$550.00	\$26,500.00			
JDM-E-21	\$7.00	\$7.00	\$7.00	\$7.00			
DEMAND BLOCK 1							
DEMAND BLOCK 2							

Note: Rates do not include BPA Residential Exchange Program Schedule 59, Decoupling Schedule 75, Public Purpose Adjustment Schedules 89,91,92, REC Revenue Adjustment Schedule 98 or Power Cost Surcharge Schedule 93.

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	PRESENT REVENUE									
	TOTAL	RESIDENTIAL SCHEDULE 1	GENERAL SVC. SCH. 11,12	LG GEN. SVC. SCH. 21,22	EX LG GEN SVC SCHEDULE 25	PUMPING SCH. 30, 31, 32	ST & AREA LTG SCH. 41-48			
	\$31,616,695	\$23,291,775	\$7,736,000			\$588,920				
	0									
	270,723,147	120,971,122	48,861,894	88,632,205	7,596,900	4,661,026				
	102,784,828	42,686,841	16,028,347	9,481,260	27,803,914	6,784,466				
	45,671,082	28,129,331			17,541,751					
	0									
	18,017,500			11,393,500	6,624,000					
	28,257,215		2,815,845	17,125,306	8,316,064					
	124,563		5,645	115,739		3,180				
JDM-E-22/23	(1,296,719)			(55,488)	(1,241,231)					
JDM-E-29/8	102,310				102,310					
JDM-E-11	6,424,019									6,424,019
	\$502,424,641	\$215,079,069	\$75,447,731	\$126,692,522	\$66,743,708	\$12,037,591				\$6,424,019
	0	0	0	0	0	0				0
	\$502,424,641	\$215,079,069	\$75,447,731	\$126,692,522	\$66,743,708	\$12,037,591				\$6,424,019
	0	0	0	0	0	0				0
	\$502,424,641	\$215,079,069	\$75,447,731	\$126,692,522	\$66,743,708	\$12,037,591				\$6,424,019
	(39,319,785)	(21,516,898)	(4,974,918)	(12,842,794)		14,825				
JDM-E-15		8,104¢	10,421¢	7,108¢		7,850¢				
JDM-E-5/6	(\$3,173,801)	(\$1,743,686)	(\$518,423)	(\$912,856)		\$1,164				
	0	0	0	0	0					
JDM-E-17		9,259¢	8,341¢	6,430¢						
JDM-E-5/6	\$0	\$0	\$0	\$0	\$0					
	(39,319,785)	(21,516,898)	(4,974,918)	(12,842,794)		14,825				0
JDM-E-15	(\$3,173,801)	(\$1,743,686)	(\$518,423)	(\$912,856)		\$1,164				
	29,571,094	29,585,305	1,578,297	(1,592,508)						
JDM-E-17		9,259¢	8,341¢	6,430¢						
JDM-E-5/6	\$2,768,461	\$2,739,214	\$131,646	(\$102,398)						
	(\$405,340)	\$995,528	(\$386,778)	(\$1,015,254)		\$1,164				
	502,424,641	215,079,069	75,447,731	126,692,522	66,743,708	12,037,591				6,424,019
	\$502,019,301	\$216,074,597	\$75,060,953	\$125,677,268	\$66,743,708	\$12,038,755				\$6,424,019

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	TOTAL	RESIDENTIAL SCHEDULE 1	GENERAL SVC. SCH. 11,12	LG. GEN. SVC. SCH. 21,22	EX LG GEN SVC SCHEDULE 25	PUMPING SCH. 30,31,32	ST & AREA LTG SCH. 41-48
PROPOSED REVENUE							
BASE TARIFF REVENUE							
BASIC CHARGE	\$31,616,695	\$23,291,775	\$7,736,000			\$588,920	
MONTHLY MINIMUM	0	0					
BLOCK 1	297,633,622	134,556,887	52,844,382	96,855,557	8,268,960	5,107,836	
BLOCK 2	112,880,306	47,483,936	17,335,058	10,357,134	30,268,263	7,435,915	
BLOCK 3	50,363,304	31,288,269			19,095,034		
BLOCK 4	0	0					
DEMAND BLOCK 1	19,846,850		12,532,850	7,314,000			
DEMAND BLOCK 2	30,430,847		18,442,637	8,955,761			
POWER FACTOR ADJUSTMENT	124,563		5,645	115,739		3,180	
PRIMARY VOLTAGE DISCOUNT	(1,296,719)		(55,488)	(1,241,231)			
ANNUAL MINIMUM ADJUSTMENT	169,372			169,372			
STREET & AREA LIGHT REVENUE	6,424,019						6,424,019
SUBTOTAL	\$548,212,859	\$236,620,868	\$80,953,533	\$138,248,429	\$72,830,159	\$13,135,851	\$6,424,019
	0	0	0	0	0	0	0
SUBTOTAL ADJUST TO ACTUAL	\$548,212,859	\$236,620,868	\$80,953,533	\$138,248,429	\$72,830,159	\$13,135,851	\$6,424,019
	0	0	0	0	0	0	0
SUBTOTAL BASE TARIFF REVENUE	\$548,212,859	\$236,620,868	\$80,953,533	\$138,248,429	\$72,830,159	\$13,135,851	\$6,424,019
ADJUSTMENT REVENUE							
UNBILLED REVENUE ADJUSTMENT							
UNBILLED LOAD KWHS	(39,319,785)	(21,516,898)	(4,974,918)	(12,842,794)		14,825	
UNBILLED LOAD RATE	9,014¢	9,014¢	11,270¢	7,767¢		8,603¢	
UNBILLED LOAD REVENUE	(\$3,496,459)	(\$1,939,539)	(\$560,680)	(\$997,516)		\$1,275	
WEATHER-SENSITIVE KWHS	0	0	0	0			
WEATHER-SENSITIVE RATE	10,299¢	10,299¢	9,021¢	7,024¢			
WEATHER-SENSITIVE REVENUE	\$0	\$0	\$0	\$0			
TOTAL UNBILLED KWH ADJUST	(39,319,785)	(21,516,898)	(4,974,918)	(12,842,794)		14,825	
TOTAL UNBILLED REVENUE ADJ	(\$3,496,459)	(\$1,939,539)	(\$560,680)	(\$997,516)		\$1,275	
WEATHER NORMALIZATION ADJ							
WEATHER-SENSITIVE KWHS	29,571,094	29,585,305	1,578,297	(1,592,508)			
WEATHER-SENSITIVE RATE	10,299¢	10,299¢	9,021¢	7,024¢			
WEATHER-SENSITIVE REVENUE	\$3,077,476	\$3,046,955	\$142,378	(\$111,858)			
TOTAL ADJUSTMENT REVENUE	(\$418,983)	\$1,107,417	(\$418,302)	(\$1,109,373)		\$1,275	
TOTAL BASE TARIFF REVENUE	548,212,859	236,620,868	80,953,533	138,248,429	72,830,159	13,135,851	6,424,019
TOTAL PROPOSED REVENUE	\$547,793,876	\$237,728,285	\$80,535,231	\$137,139,056	\$72,830,159	\$13,137,126	\$6,424,019
TOTAL PRESENT REVENUE	\$502,019,301	\$216,074,597	\$75,060,953	\$125,677,268	\$66,743,708	\$12,038,755	\$6,424,019
TOTAL REVENUE INCREASE	\$45,774,575	\$21,653,687	\$5,474,278	\$11,461,788	\$6,086,451	\$1,098,371	\$0
PERCENT REVENUE INCREASE	9.12%	10.02%	7.29%	9.12%	9.12%	9.12%	0.00%

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRO FORMA REVENUE UNDER PRESENT AND PROPOSED BASE TARIFF RATES
12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	PRESENT		TOTAL		BASELOAD		BASELOAD		WTHR-SENS.		WTHR-SENS.	
	RATES	TOTAL KWHS	REVENUE	TOTAL KWHS	REVENUE	REVENUE	REVENUE	REVENUE	KWHS	KWHS	REVENUE	REVENUE
PRESENT BASELOAD AND WEATHER-SENSITIVE RATES												
SCHEDULE 1												
	7.53¢	1,605,882,414	\$120,971,122	1,583,840,700	\$119,310,720	\$119,310,720	\$0	\$0	22,041,714	22,041,714	\$1,660,402	\$1,660,402
0-800 KWHS												
	8.76¢	487,014,728	\$42,686,841	0	\$0	\$0	\$0	\$0	487,014,728	487,014,728	\$42,686,841	\$42,686,841
801-1500 KWHS												
	10.27¢	273,738,140	\$28,129,331	0	\$0	\$0	\$0	\$0	273,738,140	273,738,140	\$28,129,331	\$28,129,331
OVER 100 KWHS												
TOTAL		2,366,635,282	\$191,787,294	1,583,840,700	\$119,310,720	\$119,310,720	7,53¢		782,794,582	782,794,582	\$72,476,574	\$72,476,574
AVERAGE RATE			8.10¢								9.25¢	9.25¢
PROPOSED BASELOAD AND WEATHER-SENSITIVE RATES												
SCHEDULE 1												
	8.37¢	1,605,882,414	\$134,556,887	1,583,840,700	\$132,710,012	\$132,710,012	\$0	\$0	22,041,714	22,041,714	\$1,846,875	\$1,846,875
0-800 KWHS												
	9.75¢	487,014,728	\$47,483,936	0	\$0	\$0	\$0	\$0	487,014,728	487,014,728	\$47,483,936	\$47,483,936
801-1500 KWHS												
	11.43¢	273,738,140	\$31,288,269	0	\$0	\$0	\$0	\$0	273,738,140	273,738,140	\$31,288,269	\$31,288,269
OVER 1500 KWHS												
TOTAL		2,366,635,282	\$213,329,093	1,583,840,700	\$132,710,012	\$132,710,012	8.37¢		782,794,582	782,794,582	\$80,619,081	\$80,619,081
AVERAGE RATE			9.01¢								10.29¢	10.29¢
PRESENT BASELOAD AND WEATHER-SENSITIVE RATES												
SCHEDULE 11												
	11.34¢	430,539,202	\$48,861,894	430,539,202	\$48,861,894	\$48,861,894	\$0	\$0	0	0	\$0	\$0
0-3650 KWHS												
	8.34¢	192,163,371	\$16,028,347	100,537,198	\$8,385,808	\$8,385,808	\$0	\$0	91,626,173	91,626,173	\$7,642,539	\$7,642,539
over 3650 KWHS												
TOTAL		622,702,573	\$64,890,241	531,076,400	\$57,247,702	\$57,247,702	10.78¢		91,626,173	91,626,173	\$7,642,539	\$7,642,539
AVERAGE RATE			10.42¢								8.34¢	8.34¢
PROPOSED BASELOAD AND WEATHER-SENSITIVE RATES												
SCHEDULE 11												
	12.27¢	430,539,202	\$52,844,382	430,539,202	\$52,844,382	\$52,844,382	\$0	\$0	0	0	\$0	\$0
0-3650 KWHS												
	9.02¢	192,163,371	\$17,335,058	100,537,198	\$9,069,461	\$9,069,461	\$0	\$0	91,626,173	91,626,173	\$8,265,597	\$8,265,597
over 3650 KWHS												
TOTAL		622,702,573	\$70,179,439	531,076,400	\$61,913,842	\$61,913,842	11.65¢		91,626,173	91,626,173	\$8,265,597	\$8,265,597
AVERAGE RATE			11.27¢								9.02¢	9.02¢

Note: Total Base Load for Sch. 1 = Base Load per bill times total billings (base load per bill on JDM-E-18) = 663 X 2,587,975 = 1,583,840,700
Total Base Load for Sch. 11 = 1,338 X 386,800 = 531,076,400

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WASHINGTON ELECTRIC
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12 MONTHS ENDED DECEMBER 31, 2016**

WORK PAPER REFERENCE	RATES	TOTAL KWHS	TOTAL REVENUE	BASELOAD KWHS	BASELOAD REVENUE	WTHR-SENS. KWHS	WTHR-SENS. REVENUE
PRESENT BASELOAD AND WEATHER-SENSITIVE RATES							
SCHEDULE 21							
0-250000 KWHS	7.189¢	1,232,886,422	\$88,632,205	1,232,886,422	\$88,632,205	0	\$0
OVER 250000 KWHS	6.430¢	147,453,504	\$9,481,260	88,850,726	\$5,713,102	58,602,778	\$3,768,159
TOTAL		1,380,339,926	98,113,465	1,321,737,148	94,345,307	58,602,778	3,768,159
AVERAGE RATE			7.108¢		7.138¢		6.430¢
PROPOSED BASELOAD AND WEATHER-SENSITIVE RATES							
SCHEDULE 21							
0-250000 KWHS	7.856¢	1,232,886,422	\$96,855,557	1,232,886,422	\$96,855,557	0	\$0
OVER 250000 KWHS	7.024¢	147,453,504	\$10,357,134	88,850,726	\$6,240,875	58,602,778	\$4,116,259
TOTAL		1,380,339,926	107,212,691	1,321,737,148	103,096,432	58,602,778	4,116,259
AVERAGE RATE					7.800¢		7.024¢

Note: Total Base Load for Sch. 21 = Base Load per bill times total billings (base load per bill on JDM-E-18) = 53,800 X 22,787 = 1,321,737,148

	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	Total
8	1,180	1,117	1,123	1,176	1,152	1,106	1,239	1,195	1,110	1,143	1,200	1,103	13,845
9	59,256	59,379	60,189	58,994	58,518	56,397	59,813	58,040	56,942	58,097	57,588	57,857	701,069
10	5,442	5,339	5,106	5,223	5,463	5,460	5,624	5,557	6,556	5,207	5,147	5,210	65,399
11	5,658	5,652	5,903	6,184	6,378	5,868	5,953	5,889	5,913	6,166	6,182	6,107	71,652
12	2,071	2,122	2,189	4,026	4,631	4,476	5,009	5,512	4,510	3,467	2,024	2,041	42,079
13	-	-	-	-	-	-	-	-	-	-	-	-	-
14	3,009	2,809	3,149	3,208	3,003	3,222	3,247	3,290	2,921	3,413	2,858	3,329	37,457
15	65	-	683	177	683	760	950	875	607	125	-	-	4,243
16	1,777	1,899	1,821	1,753	1,478	1,414	1,523	1,448	1,588	1,784	1,793	1,869	20,159
17	1,510	1,641	1,637	1,369	972	937	984	1,134	1,258	1,457	1,391	1,513	15,600
18	5,308	4,585	4,410	6,091	6,327	6,601	7,739	7,983	6,616	4,396	4,264	4,322	68,642
19	2,683	2,616	2,618	2,574	2,025	1,957	2,025	2,151	2,186	2,362	2,781	2,915	26,700
20	1,817	2,011	2,289	2,335	1,795	1,587	1,695	2,016	1,988	2,059	2,306	2,437	24,336
21	1,339	1,321	1,136	2,873	2,656	2,612	3,845	4,163	3,990	2,936	1,252	1,380	28,644
Schedule 25 Total	102,204	103,695	104,132	110,353	108,303	105,553	113,369	114,159	109,398	104,853	100,806	102,528	1,279,394

	Jan 18	Feb 18	Mar 18	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sep 18	Oct 18	Nov 18	Dec 18	Total
9 KW/hs	42,113,570	38,726,690	42,012,008	40,858,220	39,613,368	39,658,628	40,571,988	41,162,272	38,387,778	41,469,272	39,553,724	41,299,864	485,427,382
60 KV	9,615	9,739	9,266	9,427	13,525	8,784	8,958	9,133	11,690	9,294	10,280	9,078	118,788
4.16 KV	52,272	52,705	53,136	51,985	51,840	50,544	52,849	51,408	50,976	51,408	51,696	52,128	622,947
115 KV	61,887	62,443	62,402	61,411	65,365	59,328	61,807	60,541	62,666	60,702	61,976	61,206	741,735
Total	62,256	62,379	63,189	61,994	61,518	59,397	62,813	61,040	59,942	61,097	60,588	60,857	737,069

Calc Revenue for 9	\$ 2,156,736	\$ 2,006,500	\$ 2,156,307	\$ 2,103,687	\$ 2,042,745	\$ 2,039,003	\$ 2,095,541	\$ 2,112,229	\$ 1,983,575	\$ 2,125,654	\$ 2,038,361	\$ 2,116,124	\$ 24,976,461
Revenue for 9 per Handbill Report	2,156,736	2,006,500	2,156,307	2,103,687	2,042,745	2,039,003	2,095,541	2,112,229	1,983,575	2,125,654	2,038,361	2,116,124	-
Primary Voltage Discount	-0.20	(18,998.04)	(19,206.63)	(20,360.97)	(20,244.36)	(20,187.90)	(20,835.43)	(21,262.31)	(20,436.21)	(19,664.69)	(18,994.89)	(19,158.51)	(238,439.11)
>11 and <60	-1.10	(10,576.50)	(10,711.80)	(10,369.15)	(14,877.17)	(9,662.73)	(9,854.27)	(10,046.23)	(12,858.97)	(10,222.94)	(11,308.14)	(9,986.11)	(130,666.61)
>60 and <115	-1.40	(73,190.80)	(73,787.00)	(74,390.40)	(72,778.72)	(72,576.00)	(73,988.29)	(71,971.20)	(71,355.40)	(71,971.20)	(72,374.40)	(72,979.48)	(872,135.49)
>115	(102,755.34)	(103,705.43)	(103,672.19)	(103,508.84)	(107,697.53)	(100,612.23)	(104,677.99)	(103,279.74)	(104,661.98)	(101,858.62)	(102,677.43)	(102,124.10)	(1,241,231.21)

**AVISTA UTILITIES
WASHINGTON ELECTRIC
PRESENT & PROPOSED RATE OF RETURN BY RATE SCHEDULE
12 MONTHS ENDED DECEMBER 31, 2018**

	Total	Sch 1	Sch 11	Sch 21	Sch 25	Sch 31	Schs 41-48
Total Rate Base	1,708,298,000	840,178,460	201,601,399	395,136,410	191,034,813	45,525,655	34,821,263
Revenue From Retail Rates	502,019,000	216,074,000	75,061,000	125,677,000	66,744,000	12,039,000	6,424,000
Other Operating Revenues	48,575,000	22,107,483	5,382,483	11,445,623	8,193,390	1,176,929	269,092
Total Revenues	550,594,000	238,181,483	80,443,483	137,122,623	74,937,390	13,215,929	6,693,092
Total Operating Exp b4 conv items & taxes	425,283,000	208,555,116	49,012,518	93,860,443	59,475,125	10,368,571	4,011,227
Revenue Related conversion items	23,372,000	10,059,543	3,494,540	5,851,019	3,107,334	560,488	299,076
Income Taxes	8,033,000	-280,376	3,149,654	3,772,644	1,030,543	154,590	205,945
Total Expenses	456,688,000	218,334,283	55,656,712	103,484,106	63,613,002	11,083,649	4,516,248
Net Operating Income	93,906,000	19,847,200	24,786,771	33,638,517	11,324,388	2,132,280	2,176,844
Present Rate of Return	5.50%	2.36%	12.29%	8.51%	5.93%	4.68%	6.25%
Present Return Ratio	1.00	0.43	2.24	1.55	1.08	0.85	1.14
Interest Expense	43,903,000	21,592,460	5,181,125	10,154,946	4,909,566	1,170,002	894,901
Proposed Misc Revenue Increase	0						
Proposed Rate Revenue Increase	45,775,000	9.12%					
Proposed Rev Increase	45,775,000						
Proposed Rate Revenues	547,794,000	45,775,000		Uncollectibles	0.003782		
incremental conversion expenses	2,031,000			Commiss Fees	0.002000		
incremental Income Taxes	9,186,000			Excise Tax	0.038587		
Proposed Return	128,464,000	34,558,000		Federal Inc Tax	0.200683		
Proposed Return %	7.52%						
Allocation of incremental Misc Rev	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Target Relative Return	1.00	0.59	1.88	1.41	1.11	0.87	0.81
Target Return %	7.52%	4.42%	14.11%	10.60%	8.34%	6.52%	6.12%
Target Return (NOI b4 Interest)	128,464,000	37,100,230	28,435,917	41,898,755	15,927,365	2,969,686	2,132,046
Target Return after Interest Expense	84,561,000	15,507,770	23,254,792	31,743,809	11,017,799	1,799,684	1,237,145
Target Return b4 Income Taxes & Interest	145,683,000	40,258,049	33,171,247	48,362,689	18,170,900	3,336,152	2,383,963
Target Return b4 Misc Rev	97,108,000	18,150,566	27,788,764	36,917,066	9,977,510	2,159,223	2,114,871
Total Operating Exp b4 conv items & taxes	425,283,000	208,555,116	49,012,518	93,860,443	59,475,125	10,368,571	4,011,227
Conversion Items	25,403,000	11,024,318	3,734,718	6,359,491	3,377,365	609,206	297,902
Incremental Rate Revenue	45,775,000	21,656,000	5,475,000	11,460,000	6,086,000	1,098,000	0
Target Rate Revenue	547,794,000	237,730,000	80,536,000	137,137,000	72,830,000	13,137,000	6,424,000
Change in Rate Revenue	9.12%	10.02%	7.29%	9.12%	9.12%	9.12%	0.00%
Incremental Rate Revenue - rounded	45,776,000	21,657,000	5,475,000	11,460,000	6,086,000	1,098,000	0
Target Rate Revenue - rounded	547,794,000	237,730,000	80,536,000	137,137,000	72,830,000	13,137,000	6,424,000
Total Present Billed Revenue	\$ 519,237,980	\$ 220,074,329	\$ 78,691,631	\$ 131,866,134	\$ 69,157,141	\$ 12,658,501	\$ 6,790,245
% of Present Billed Revenue	8.8%	9.8%	7.0%	8.7%	8.8%	8.7%	0.0%
Movement towards Unity		27.61%	29.19%	25.26%	-38.68%	10.41%	235.38%

**AVISTA UTILITIES
WASHINGTON ELECTRIC
ACTUAL / PRO FORMA BILLING DETERMINANTS BY RATE SCHEDULE
12 MONTHS ENDED DECEMBER 31, 2016**

<u>Schedule 1, 2</u>	<u>0-800 kWhs</u>	<u>801-1500 kWhs</u>	<u>over 1500 kWhs</u>	<u>Total kWhs</u>	<u>Total Billings(2)</u>	
kWhs per billing run(1)	1,605,882,414	487,014,728	273,738,140	2,366,635,282	2,587,975	
Total kWhs per Rev. Run(2)				<u>2,366,635,282</u>		
Adjust. kWhs to Actual				-		
<u>Schedule 11,12</u>	<u>0-3,650 kWhs</u>	<u>over 3,650 kWhs</u>	<u>Total kWhs</u>	<u>kw over 20(1)</u>	<u>Total Billings(2)</u>	<u>kvar billed(1)</u>
kWhs per Revenue Run(1)	430,539,202	192,163,371	622,702,573	433,207	386,800	11,290
Shifted from Sch 21	-	-	-	-	-	-
Total by Block	430,539,202	192,163,371	622,702,573	433,207	386,800	11,290
Total kWhs per Rev. Run(2)			<u>622,702,573</u>			
Schedule Shifting from 21			-			
Total Adjusted kWhs			<u>622,702,573</u>			
Adjust. kWhs to Actual			-			
<u>Schedule 21,22</u>	<u>0-250,000 kWhs</u>	<u>over 250,000 kWhs</u>	<u>Total kWhs</u>	<u>kw over 50(1)</u>	<u>Total Billings(2)</u>	<u>kvar billed(1)</u>
kWhs per Revenue Run(1)	1,232,886,422	147,453,504	1,380,339,926	2,634,662	22,787	231,477
Special Contract Shifted to Sched 21	-	-	-	-	-	-
Shifted to Sch 011(4)	-	-	-	-	-	-
Total	1,232,886,422	147,453,504	1,380,339,926	2,634,662	22,787	231,477
Total kWhs per Rev. Run(2)			<u>1,380,339,926</u>			
Schedule Shifting to Sch. 21			-			
Schedule Shifting to Sch. 11			-			
Total adjusted kWhs			<u>1,380,339,926</u>			
Adjust. kWhs to Actual			-			
<u>Schedule 25(3)</u>	<u>0-500,000 kWhs</u>	<u>500,001-6M kWhs</u>	<u>> 6M kWhs</u>	<u>Total kWhs</u>	<u>kva over 3,000</u>	<u>Total Billings(2)</u>
Total	138,000,000	561,355,023	414,208,989	1,113,564,012	1,279,394	276
<u>Schedule 30, 31, & 32</u>	<u>Block 1 kWhs</u>	<u>Block 2 kWhs</u>	<u>Block 3 kWhs</u>	<u>Total kWhs</u>	<u>Total Billings(2)</u>	<u>kvar billed(1)</u>
kWhs per billing run (30,31& 32)(1)	36,763,074	11,229,371	97,815,247	145,807,692	29,446	6,359
Schedule 31 to 30 Shifting Adj	-	-	0	-		
Total Schs. 30,31&32	36,763,074	11,229,371	97,815,247	145,807,692		
Total kWhs per Rev. Run(2)				<u>145,807,692</u>		
Adjust kWhs to Actual				-		

(1) From workpaper JDM-E-22/23

(2) From workpaper JDM-E-19

(3) From workpaper JDM-E-7/8

**AVISTA UTILITIES
WASHINGTON ELECTRIC
STREET & AREA LIGHT REVENUE UNDER PRESENT & PROPOSED RATES
12 MONTHS ENDED DECEMBER 31, 2018**

	<u>Present Rates(1)</u>		<u>Proposed Rates(2)</u>		<u>% Revenue Change</u>	
	<u>Monthly Revenue</u>	<u>Annual Revenue</u>	<u>Monthly Revenue</u>	<u>Annual Revenue</u>	<u>Base Rates</u>	<u>Billing Rates</u>
Schedule 41	\$ 1,020	\$ 12,236	\$ 1,020	\$ 12,236	0.0%	0.0%
Schedule 42	338,610	4,063,314	338,610	4,063,314	0.0%	0.0%
Schedule 44	2,378	28,531	2,378	28,531	0.0%	0.0%
Schedule 45	1,930	23,158	1,930	23,158	0.0%	0.0%
Schedule 46	9,293	111,518	9,293	111,518	0.0%	0.0%
Schedule 47	115,772	1,389,261	115,772	1,389,261	0.0%	0.0%
Schedule 48	66,333	796,001	66,333	796,001	0.0%	0.0%
Total	\$ 535,335	\$ 6,424,019	\$ 535,335	\$ 6,424,019	0.0%	0.0%

Sch 46 Per kWh Rate \$ 0.10347

(1) from PDE-E-12/14

(2) from PDE-E-13/14

WASHINGTON Street Lights

Fixture Type	Number of Lights(1)					Present Rates					Monthly Revenue at Present Rates				
	041	042	044	045	046	041	042	044	045	046	041	042	044	045	046
	59	108	1	8	65	\$14.29	\$13.42	\$15.49	\$3.45	\$843	\$1,449	\$15	\$442	\$74	\$28
Single Mercury Vapor	4000	214													
Direct Burial	50W	234													
High-Pressure Sodium Vap	70W	335													
Dusk to Dawn	7000	411													
Single Mercury Vapor	7000	415													
Wood Pole	7000	419													
Mercury Vapor	7000	421													
Dusk to 1 AM	100W	421L													
Single High-Pressure Sodium Vap	100W	431	2												
Standard	100W	432	1												
Single Light Emitting Diode (LED)	100W	432L													
Standard	100W	432L	88												
Single High-Pressure Sodium Vap	100W	432L	98												
Pedestal Base	100W	432L	4												
Single Light Emitting Diode (LED)	100W	432T													
Pedestal Base	100W	433	29												
Single High-Pressure Sodium Vap	100W	433	6												
Direct Burial	100W	433L	39												
Single Light Emitting Diode (LED)	100W	433T	65												
Direct Burial	100W	434	2,470												
Single High-Pressure Sodium Vap	100W	434L	465												
Direct Burial	100W	435	832												
Standard / Dusk to Dawn (046)	100W	435L	7,827												
Single High-Pressure Sodium Vap	100W	436	3,707												
Standard / Dusk to Dawn (046)	100W	436L	95												
Developer Contributed	100W	436T	135												
Single Light Emitting Diode (LED)	100W	436L	271												
Developer Contributed	100W	436L	10												
Decorative Sodium Vapor	100W	438													
No Pole	100W	441L	23												
Double Light Emitting Diode (LED)	100W	441T	10												
Standard	100W	471	247												
Decorative Light Emitting Diode (LED)	100W	471L	1												
Direct Burial	100W	474L	60												
Decorative Sodium Vapor	100W	475	1												
No Pole	100W	484	123												
Decorative Light Emitting Diode (LED)	100W	484L	38												
Direct Burial	100W	495	36												
Dusk to Dawn	100W	499	41												
Dusk to 11 PM	18W	295L	42												
Dusk to Dawn	26W	395L	45												
LED (Dusk to Dawn)	10000	515	1												
Dusk to Dawn	2000	531	2												
Mercury Vapor	2000	532	89												
Single High-Pressure Sodium Vap	107W	532L	111												
Pedestal Base	107W	532T	707												
Standard	107W	533	153												
Single Light Emitting Diode (LED)	107W	533L	2												
Pedestal Base	107W	533T	21												
Standard	107W	533L	53												
Single High-Pressure Sodium Vap	107W	533T	47												
Direct Burial	200W	535	353												
Standard / Dusk to Dawn (046)	107W	535L	2,087												
Single Light Emitting Diode (LED)	107W	535T	871												
Standard / Dusk to Dawn (046)	200W	536	156												
Developer Contributed	107W	536L	211												
Single High-Pressure Sodium Vap	107W	536T	340												
Standard / Dusk to Dawn (046)	200W	541	4												
Developer Contributed	107W	541L	6												
Double Light Emitting Diode (LED)	107W	542L	14												
Standard	107W	542T	9												
Double High-Pressure Sodium Vap	107W	546T	3												
Standard / Dusk to Dawn (046)	2000	611	8												
Double Light Emitting Diode (LED)	2000	615	6												
Standard / Dusk to Dawn (046)	2500	632	86												
Pedestal Base	2500	633	34												
Single High-Pressure Sodium Vap	2500	635	1												
Standard / Dusk to Dawn (046)	2500	636	2												
Developer Contributed	3000	715	6												
Mercury Vapor	310W	732	25												
Dusk to Dawn	310W	735	3												
Single High-Pressure Sodium Vap	400W	832	3												
Standard / Dusk to Dawn (046)	248W	832T	2												
Single High-Pressure Sodium Vap	400W	835	29												
Pedestal Base	400W	835L	48												
Standard / Dusk to Dawn (046)	248W	835T	45												
Single Light Emitting Diode (LED)	248W	836L	15												
Standard / Dusk to Dawn (046)	248W	836T	3												
Developer Contributed	400W	842	2												
Double High-Pressure Sodium Vap	150W	935	103												
Standard / Dusk to Dawn (046)	107W	942	3												
Capital Offset	248W	947	2												
Capital Offset	248W	947	2												
Total			66	22,219	204	175	872								
												23,636			

(1) From Street Light Report and Area Light Report

\$1,020 \$338,610 \$2,379 \$1,930 \$9,293 \$553,230

WASHINGTON Area Lights

Fixture Type	Pole Facility	Size	Sched	# of Lights(1)		Pres. Rates		Monthly Rev. at Pres. Rates		% rate increase -->		Prop. Rates		Monthly Rev. at Prop. Rates	
				047	048	047	048	047	048	047	048	047	048		
Sodium-Vapor	Granville w/16' decorative pole	400W	HAG			\$29.98	\$29.98	\$89	\$89	0.0%	\$29.98	\$29.98	\$89	\$89	
Sodium Vapor	Floodlight on existing standard	250W	HAG	104	4	\$22.18	\$22.18	\$492	\$492	0.0%	\$22.18	\$22.18	\$492	\$492	
Sodium Vapor	Kim light w/25' fiberglass pole	100W	HAI	17	2	\$28.96	\$28.96	\$58	\$58	0.0%	\$28.96	\$28.96	\$58	\$58	
Sodium-Vapor	Post-Top w/16' decorative pole	400W	HAP			\$28.59	\$28.59			0.0%	\$28.59	\$28.59			
Sodium Vapor	on existing standard	100W	HPA	470	662	\$13.75	\$13.75	\$9,103	\$9,103	0.0%	\$13.75	\$13.75	\$9,103	\$9,103	
Sodium Vapor	on existing standard	200W	HPB	987	444	\$19.53	\$19.53	\$19,276	\$19,276	0.0%	\$19.53	\$19.53	\$19,276	\$19,276	
Sodium Vapor	35' wood pole	400W	HPC	129	9	\$26.98	\$26.98	\$243	\$243	0.0%	\$26.98	\$26.98	\$243	\$243	
Sodium Vapor	35' wood pole	100W	HPE	672	198	\$27.13	\$27.13	\$5,372	\$5,372	0.0%	\$27.13	\$27.13	\$5,372	\$5,372	
Sodium Vapor	35' wood pole	400W	HPL	48	5	\$34.67	\$34.67	\$1,699	\$1,699	0.0%	\$34.67	\$34.67	\$1,699	\$1,699	
Sodium Vapor	30' steel pole	200W	HPL	45	7	\$34.07	\$34.07	\$1,533	\$1,533	0.0%	\$34.07	\$34.07	\$1,533	\$1,533	
Sodium Vapor	25' fiberglass pole	100W	HPS	98	145	\$20.14	\$20.14	\$1,974	\$1,974	0.0%	\$20.14	\$20.14	\$1,974	\$1,974	
Sodium Vapor	30' steel pole w/2 arms	200W	HPY	14		\$57.73	\$57.73	\$808	\$808	0.0%	\$57.73	\$57.73	\$808	\$808	
Mercury Vapor	on existing standard	7000	MVA	104	255	\$15.82	\$15.82	\$1,645	\$1,645	0.0%	\$15.82	\$15.82	\$1,645	\$1,645	
Mercury Vapor	on existing standard	10000	MVB	165	249	\$18.95	\$18.95	\$3,127	\$3,127	0.0%	\$18.95	\$18.95	\$3,127	\$3,127	
Mercury Vapor	on existing standard	20000	MVC	299	21	\$26.95	\$26.95	\$8,058	\$8,058	0.0%	\$26.95	\$26.95	\$8,058	\$8,058	
Mercury Vapor	30' wood pole	7000	MVD	37	101	\$19.74	\$19.74	\$730	\$730	0.0%	\$19.74	\$19.74	\$730	\$730	
Mercury Vapor	30' wood pole	10000	MVE	55	56	\$22.92	\$22.92	\$1,284	\$1,284	0.0%	\$22.92	\$22.92	\$1,284	\$1,284	
Mercury Vapor	30' wood pole	20000	MVF	143	17	\$30.94	\$30.94	\$4,424	\$4,424	0.0%	\$30.94	\$30.94	\$4,424	\$4,424	
Mercury-Vapor	25'-steel	7000	MVG			\$25.73	\$25.73			0.0%	\$25.73	\$25.73			
Mercury Vapor	25' steel	10000	MVH	21		\$28.93	\$28.93	\$608	\$608	0.0%	\$28.93	\$28.93	\$608	\$608	
Mercury Vapor	25' steel	20000	MVI	1		\$36.90	\$36.90	\$37	\$37	0.0%	\$36.90	\$36.90	\$37	\$37	
Mercury Vapor	30' steel	7000	MVJ	2		\$26.99	\$26.99	\$54	\$54	0.0%	\$26.99	\$26.99	\$54	\$54	
Mercury Vapor	30' steel	10000	MVK	2	26	\$30.16	\$30.16	\$60	\$60	0.0%	\$30.16	\$30.16	\$60	\$60	
Mercury Vapor	30' steel	20000	MVL	3		\$38.15	\$38.15	\$114	\$114	0.0%	\$38.15	\$38.15	\$114	\$114	
Mercury-Vapor	25'-aluminum	7000	MVM			\$27.85	\$27.85			0.0%	\$27.85	\$27.85			
Mercury-Vapor	25'-aluminum	10000	MVN			\$31.03	\$31.03			0.0%	\$31.03	\$31.03			
Mercury-Vapor	25'-aluminum	20000	MVO			\$39.00	\$39.00			0.0%	\$39.00	\$39.00			
Mercury Vapor	Special	7000	MVV	2	2	\$7.91	\$7.91	\$16	\$16	0.0%	\$7.91	\$7.91	\$16	\$16	
none	35' wood pole	n/a	PA	53	2	\$6.37	\$6.37	\$338	\$338	0.0%	\$6.37	\$6.37	\$338	\$338	
none	55'-wood-pole	n/a	PB			\$12.16	\$12.16			0.0%	\$12.16	\$12.16			
LED	on existing standard	70W	HPAL	337	582	\$13.75	\$13.75	\$4,634	\$4,634	0.0%	\$13.75	\$13.75	\$4,634	\$4,634	
LED	on existing standard	107W	HPBL	346	87	\$19.53	\$19.53	\$6,757	\$6,757	0.0%	\$19.53	\$19.53	\$6,757	\$6,757	
LED	on existing standard	241W	HPCL	95	5	\$26.98	\$26.98	\$2,563	\$2,563	0.0%	\$26.98	\$26.98	\$2,563	\$2,563	
LED	20' fiberglass pole	70W	HPSL	7	70	\$20.14	\$20.14	\$141	\$141	0.0%	\$20.14	\$20.14	\$141	\$141	
LED	35' wood pole	70W	HPFL	292	297	\$20.14	\$20.14	\$5,881	\$5,881	0.0%	\$20.14	\$20.14	\$5,881	\$5,881	
LED	35' wood pole	107W	HPDL	357	59	\$27.13	\$27.13	\$9,685	\$9,685	0.0%	\$27.13	\$27.13	\$9,685	\$9,685	
LED	25' steel pole	107W	HPOL	5	5	\$29.51	\$29.51	\$148	\$148	0.0%	\$29.51	\$29.51	\$148	\$148	
LED	30' steel pole w/2 arms	107W	HPLL	6	4	\$34.07	\$34.07	\$204	\$204	0.0%	\$34.07	\$34.07	\$204	\$204	
LED	30' steel pole w/2 arms	107W	HPYL	5	5	\$57.73	\$57.73	\$289	\$289	0.0%	\$57.73	\$57.73	\$289	\$289	
LED	Granville w/16' decorative pole	70W	HAGL			\$29.98	\$29.98			0.0%	\$29.98	\$29.98			
LED	Post-Top w/16' decorative pole	70W	HAPL	1	1	\$28.59	\$28.59	\$29	\$29	0.0%	\$28.59	\$28.59	\$29	\$29	
LED	35 ft direct buried steel pole	70W	HAAL	7	7	\$28.29	\$28.29	\$198	\$198	0.0%	\$28.29	\$28.29	\$198	\$198	
LED	Floodlight on existing standard	125W	HAML	24	13	\$15.26	\$15.26	\$366	\$366	0.0%	\$15.26	\$15.26	\$366	\$366	
LED	Floodlight 35ft wood pole	125W	HANL	5	5	\$21.63	\$21.63	\$108	\$108	0.0%	\$21.63	\$21.63	\$108	\$108	
LED	70W Kim light w/25ft Fiberglass	70W	HAIL			\$28.96	\$28.96			0.0%	\$28.96	\$28.96			
LED	30 ft Fiberglass direct buried	70W	HAOL			\$26.32	\$26.32			0.0%	\$26.32	\$26.32			
LED	35 ft Fiberglass direct buried	107W	HAQL			\$29.00	\$29.00			0.0%	\$29.00	\$29.00			
LED	30 steel pole pedestal base	70W	HPKL	1	1	\$28.29	\$28.29	\$28	\$28	0.0%	\$28.29	\$28.29	\$28	\$28	
LED	35' wood pole	248W	HPGL	69	69	\$34.67	\$34.67	\$2,392	\$2,392	0.0%	\$34.67	\$34.67	\$2,392	\$2,392	
			SLB	30	30	\$0.00	\$0.00	\$0	\$0	0.0%	\$0.00	\$0.00	\$0	\$0	
			SIC	19	19	\$0.00	\$0.00	\$0	\$0	0.0%	\$0.00	\$0.00	\$0	\$0	
			SLD	1	1	\$0.00	\$0.00	\$0	\$0	0.0%	\$0.00	\$0.00	\$0	\$0	
			Total	5,318	3,673			\$115,772	\$66,333		\$115,772	\$66,333	\$115,772	\$66,333	
				8,991	0			\$182,105	\$182,105		\$182,105	\$182,105	\$182,105	\$182,105	
														0.00%	

(1) from Street Light Report and Area Light Report

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

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
Revenue Run Billed Usage													
Residential Schedule 001/002	290,781,554	227,575,425	233,136,064	195,827,349	159,686,943	149,276,245	162,965,399	205,105,320	165,901,550	149,412,587	181,215,231	245,751,615	2,366,635,282
General Svc Schedule 011/012	64,968,017	55,958,109	55,740,106	50,692,240	46,948,189	46,100,697	48,168,344	55,210,418	48,512,488	45,641,901	47,727,635	57,034,429	622,702,573
Large Gen Svc Schedule 021/022	125,937,053	113,399,610	112,223,930	111,090,734	112,273,215	113,413,112	114,915,540	124,759,437	113,710,883	110,448,176	109,051,287	119,116,948	1,380,339,926
Extra Large Gen Schedule 25	85,895,740	82,389,793	59,452,405	91,719,050	50,375,928	94,067,377	91,430,986	95,462,593	98,727,949	89,411,354	95,120,661	88,922,600	1,022,976,434
Pumping Schedule 31/32	5,199,806	4,295,325	4,226,648	5,323,831	10,126,136	18,516,637	23,083,953	28,015,838	23,798,948	12,999,704	6,282,585	3,998,283	145,807,692
Street and Area Lights	1,677,510	1,505,149	1,474,262	1,503,569	1,565,521	1,544,276	1,517,441	1,578,869	1,535,455	1,534,836	1,517,746	1,587,398	18,542,032
Total Revenue Run Billed Usage	574,459,679	485,123,411	466,253,415	456,156,773	380,975,932	422,918,343	442,081,662	510,132,476	452,187,273	409,388,557	440,915,146	516,411,273	5,557,003,938
Net Unbilled Usage													
Residential Schedule 001/002	(16,807,345)	(11,417,924)	(2,538,576)	(21,339,210)	(11,882,566)	(6,167,987)	22,269,076	(2,879,705)	(26,562,728)	10,771,561	32,345,083	12,693,423	(21,516,898)
General Svc Schedule 011/012	(5,056,613)	226,900	(1,492,318)	(3,135,024)	(94,436)	(612,520)	5,515,065	(3,427,114)	(5,492,340)	4,178,114	5,066,221	(648,853)	(4,974,918)
Large Gen Svc Schedule 021/022	(17,335,146)	2,932,085	(3,284,636)	(1,903,474)	4,768,104	131,589	11,356,739	(11,474,036)	(10,604,470)	11,698,081	8,235,200	(7,362,830)	(12,842,794)
Extra Large Gen Schedule 25	9,694,517	4,244,920	29,855,455	3,968,084	42,504,574	1,641,436	1,095,411	3,752,803	(8,950,868)	5,368,369	(7,500,338)	4,713,680	90,379,043
Pumping Schedule 31/32	329,032	(115,788)	(137,275)	22,402	930,226	2,217,873	2,033,088	726,896	(1,530,437)	(1,792,052)	(1,310,272)	(1,358,868)	14,825
Street and Area Lights	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Unbilled Usage	(29,175,555)	(4,129,807)	22,403,650	(22,387,222)	36,225,902	(2,789,609)	42,267,379	(13,301,156)	(53,150,843)	30,224,073	36,835,894	8,036,552	51,059,258
Other Usage Adjustments													
Extra Large Gen Schedule 25	(2,351,888)	424,875	5,841,699	(3,190,697)	1,186,875	(4,277,827)	2,896,196	(487,447)	(355,727)	340,838	1,302,277	(1,160,739)	208,535
Weather Adjustment													
Residential Schedule 001/002	18,971,503	(7,032,417)	(1,444,882)	(357,275)	11,243,016	8,391,924	(18,566,532)	(7,591,998)	6,498,512	1,439,157	2,721,258	15,313,039	29,585,305
General Svc Schedule 011/012	1,930,773	(710,823)	(145,200)	(42,341)	444,874	944,145	(2,529,840)	(1,038,088)	865,276	123,714	198,669	1,596,838	1,578,297
Large Gen Svc Schedule 021/022	991,519	(366,102)	(74,963)	(40,508)	(779,455)	825,754	(2,819,054)	(1,160,154)	980,935	50,179	20,819	778,502	(1,592,508)
Extra Large Gen Schedule 25	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumping Schedule 31/32	-	-	-	-	-	-	-	-	-	-	-	-	-
Street and Area Lights	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Weather Adjustment	21,893,795	(8,109,342)	(1,665,045)	(440,124)	10,908,455	10,161,823	(23,915,126)	(9,790,240)	8,344,723	1,613,050	2,940,746	17,628,379	29,571,094
Normalized Test Year Usage													
Residential Schedule 001/002	292,945,712	209,125,084	229,152,606	174,130,864	159,047,393	151,500,182	166,667,943	194,633,617	145,837,334	161,623,305	216,281,572	273,758,077	2,374,703,689
General Svc Schedule 011/012	61,842,177	55,474,186	54,102,588	47,514,875	47,298,627	46,432,322	51,151,869	50,745,216	43,885,424	49,943,729	52,992,525	57,922,414	619,305,952
Large Gen Svc Schedule 021/022	109,593,426	115,965,593	108,864,331	109,146,752	116,261,884	114,370,455	123,453,725	112,125,247	104,087,348	122,196,436	117,307,306	112,532,620	1,365,904,624
Extra Large Gen Schedule 25	93,238,369	87,059,588	95,150,559	92,496,437	94,067,377	91,430,986	95,462,593	96,727,949	89,411,354	95,120,661	88,922,600	92,475,541	1,113,564,012
Pumping Schedule 31/32	5,528,838	4,179,537	4,089,373	5,346,233	11,056,362	20,734,510	25,117,041	28,742,734	22,268,511	11,147,652	4,972,313	2,699,415	145,822,517
Street and Area Lights	1,677,510	1,505,149	1,474,262	1,503,569	1,565,521	1,544,276	1,517,441	1,578,869	1,535,455	1,534,836	1,517,746	1,587,398	18,542,032
Total Normalized Test Year Usage	564,826,031	473,305,137	492,833,719	430,136,730	429,297,164	426,012,730	463,370,111	486,553,633	407,025,426	441,566,618	481,994,063	540,915,465	5,637,842,825
Residential Usage	292,945,712	209,125,084	229,152,606	174,130,864	159,047,393	151,500,182	166,667,943	194,633,617	145,837,334	161,623,305	216,281,572	273,758,077	2,374,703,689
Schedule 001 Customers	215,198	214,198	216,045	214,971	215,099	214,829	215,408	215,648	214,122	218,388	216,943	217,126	2,587,975
Schedule 001 Norm Use/Customer	1,361	976	1,061	810	739	705	774	903	681	740	997	1,261	918

12.2018	Total	January	February	March	April	May	June	July	August	September	October	November	December
Normal DDH	6,520	1,105	914	772	542	304	136	27	30	160	529	864	1,137
Actual DDH	6,064	960	968	783	543	125	103	15	24	169	517	836	1,021
Unbilled DDH	456	145	-54	-11	-1	179	33	12	6	-9	12	28	116
Normal DDC	495	0	0	0	0	14	0	209	180	40	0	0	0
Actual DDC	573	0	0	0	1	37	31	280	209	15	0	0	0
Unbilled DDC	-78	0	0	0	-1	-23	20	-71	-29	25	1	0	0

Rate Group

WA Res Sched 1	29,585,305	18,971,503	-7,032,417	-1,444,882	-357,275	11,243,016	8,391,924	-18,566,532	-7,591,998	6,498,512	1,439,157	2,721,258	15,313,039
No of Cust	215,661	215,194	214,194	216,041	214,967	215,095	214,825	215,404	215,645	214,119	218,385	216,937	217,120
Usage/DDH	0.608	0.608	0.608	0.608	0.448	0.448	0.448	0.000	0.000	0.000	0.448	0.448	0.608
Usage/DDC	0.000	0.000	0.000	0.000	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	0.000
WA Res Sched 11	926,791	452,138	-164,914	-33,834	-6,447	354,030	161,503	-287,236	-116,303	99,373	34,729	70,756	362,996
No of Cust	9,490	9,565	9,368	9,435	9,384	9,434	9,405	9,564	9,481	9,397	9,671	9,572	9,599
Usage/DDH	0.326	0.326	0.326	0.326	0.264	0.264	0.264	0.000	0.000	0.000	0.264	0.264	0.326
Usage/DDC	0.000	0.000	0.000	0.000	0.423	0.423	0.423	0.423	0.423	0.423	0.423	0.423	0.000
WA Com Sched 11	591,182	1,449,281	-535,408	-109,244	-35,624	71,683	775,708	-2,232,177	-917,681	762,507	87,246	124,347	1,150,544
No of Cust	22,557	22,716	22,534	22,571	22,377	22,556	22,549	22,537	22,684	21,864	23,210	22,543	22,542
Usage/DDH	0.440	0.440	0.440	0.440	0.197	0.197	0.197	0.000	0.000	0.000	0.197	0.197	0.440
Usage/DDC	0.000	0.000	0.000	0.000	1.395	1.395	1.395	1.395	1.395	1.395	1.395	1.395	0.000
WA Ind Sched 11	60,324	29,354	-10,501	-2,122	-270	19,161	6,934	-10,127	-4,104	3,396	1,739	3,566	23,298
No of Cust	126	127	122	121	127	126	125	126	125	120	133	128	126
Usage/DDH	1.594	1.594	1.594	1.594	0.995	0.995	0.995	0.000	0.000	0.000	0.995	0.995	1.594
Usage/DDC	0.000	0.000	0.000	0.000	1.132	1.132	1.132	1.132	1.132	1.132	1.132	1.132	0.000
WA Res Sched 21	225,385	148,777	-54,252	-11,051	-2,879	90,956	68,892	-150,472	-61,460	55,238	11,714	20,819	109,103
No of Cust	47	48	47	47	47	49	48	47	47	49	49	46	44
Usage/DDH	21.376	21.376	21.376	21.376	16.164	16.164	16.164	0.000	0.000	0.000	16.164	16.164	21.376
Usage/DDC	0.000	0.000	0.000	0.000	45.092	45.092	45.092	45.092	45.092	45.092	45.092	45.092	0.000
WA Com Sched 21	-1,886,536	790,739	-293,650	-60,157	-37,629	-870,391	756,862	-2,668,582	-1,098,694	925,697	38,465	0	630,804
No of Cust	1,761	1,770	1,765	1,775	1,754	1,764	1,764	1,752	1,766	1,726	1,793	1,734	1,765
Usage/DDH	3.081	3.081	3.081	3.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.081
Usage/DDC	0.000	0.000	0.000	0.000	21.453	21.453	21.453	21.453	21.453	21.453	21.453	21.453	0.000
WA Ind Sched 21	68,643	52,003	-18,200	-3,755	0	0	0	0	0	0	0	0	38,595
No of Cust	77	83	78	79	75	79	75	79	77	71	81	75	77
Usage/DDH	4.321	4.321	4.321	4.321	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.321
Usage/DDC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Prep by: _____ 1st Review: _____

Date: 4/24/2019 Migr. Review: _____

12.2018

	Total	January	February	March	April	May	June	July	August	September	October	November	December
ID Res Sched 1	16,755,498	9,268,696	-3,450,152	-703,489	-155,370	6,390,820	3,747,841	-7,549,185	-3,091,284	2,671,464	705,338	1,399,364	7,521,455
No of Cust	107,925	107,432	107,381	107,485	107,448	107,481	107,428	107,727	108,000	108,266	108,597	108,883	108,975
Usage/DDH		0.595	0.595	0.595	0.595	0.459	0.459	0.000	0.000	0.000	0.459	0.459	0.595
Usage/DDC		0.000	0.000	0.000	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.000
ID Res Sched 11	370,026	181,932	-67,641	-13,804	-1,939	122,113	49,474	-79,334	-32,632	28,162	11,237	23,669	148,789
No of Cust	5,427	5,385	5,376	5,386	5,397	5,397	5,384	5,398	5,436	5,442	5,500	5,525	5,505
Usage/DDH		0.233	0.233	0.233	0.153	0.153	0.153	0.000	0.000	0.000	0.153	0.153	0.233
Usage/DDC		0.000	0.000	0.000	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.207	0.000
ID Com Sched 11	483,012	1,094,906	-410,246	-83,694	-28,583	95,808	622,193	-1,769,060	-722,123	621,705	70,384	105,108	886,614
No of Cust	16,037	15,897	15,994	16,018	16,004	16,000	16,057	16,044	16,034	16,013	16,184	16,111	16,091
Usage/DDH		0.475	0.475	0.475	0.233	0.233	0.233	0.000	0.000	0.000	0.233	0.233	0.475
Usage/DDC		0.000	0.000	0.000	1.553	1.553	1.553	1.553	1.553	1.553	1.553	1.553	0.000
ID Ind Sched 11	22,240	14,415	-5,368	-1,059	-233	7,629	5,360	-11,744	-4,876	4,169	943	1,838	11,166
No of Cust	123	126	126	122	123	122	120	121	123	122	123	125	122
Usage/DDH		0.789	0.789	0.789	0.525	0.525	0.525	0.000	0.000	0.000	0.525	0.000	0.789
Usage/DDC		0.000	0.000	0.000	1.367	1.367	1.367	1.367	1.367	1.367	1.367	1.367	0.000
ID Res Sched 21	48,888	35,306	-14,792	-3,013	-610	14,016	14,003	-33,447	-12,902	12,431	2,018	4,103	31,775
No of Cust	18	16	18	18	18	18	18	18	17	19	17	19	18
Usage/DDH		15.218	15.218	15.218	7.713	7.713	7.713	0.000	0.000	0.000	7.713	7.713	15.218
Usage/DDC		0.000	0.000	0.000	26.171	26.171	26.171	26.171	26.171	26.171	26.171	26.171	0.000
ID Com Sched 21	-796,753	602,053	-222,904	-45,673	-20,475	-473,684	410,296	-1,448,017	-593,187	505,859	20,455	0	468,524
No of Cust	1,019	1,028	1,022	1,028	1,022	1,028	1,024	1,018	1,021	1,010	1,021	1,008	1,000
Usage/DDH		4.039	4.039	4.039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.039
Usage/DDC		0.000	0.000	0.000	20.034	20.034	20.034	20.034	20.034	20.034	20.034	20.034	0.000
ID Ind Sched 21	504,038	204,832	-80,161	-15,012	-957	174,117	31,565	0	0	0	11,478	25,420	152,756
No of Cust	59	59	62	57	59	60	59	59	60	58	59	56	55
Usage/DDH		23.943	23.943	23.943	16.212	16.212	16.212	0.000	0.000	0.000	16.212	16.212	23.943
Usage/DDC		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Electric Adjustment	46,958,043	33,295,935	-12,360,606	-2,530,789	-648,291	17,239,274	15,042,555	-34,805,913	-14,247,244	12,188,513	2,434,903	4,500,248	26,849,458
WA subtotal	29,571,094	21,893,795	-8,109,342	-1,665,045	-440,124	10,908,455	10,161,823	-23,915,126	-9,790,240	8,344,723	1,613,050	2,940,746	17,628,379
ID subtotal	17,386,949	11,402,140	-4,251,264	-865,744	-208,167	6,330,819	4,880,732	-10,890,787	-4,457,004	3,843,790	821,853	1,559,502	9,221,079
Summarize by Schedule													
WA Sch 1	29,585,305	18,971,503	-7,032,417	-1,444,882	-357,275	11,243,016	8,391,924	-18,566,532	-7,591,998	6,498,512	1,439,157	2,721,258	15,313,039
WA Sch 11	1,578,297	1,950,773	-710,823	-145,200	-42,341	444,874	944,145	-2,529,540	-1,038,088	865,276	123,714	198,669	1,536,838
WA Sch 21	-1,592,508	991,519	-366,102	-74,963	-40,508	-779,435	825,754	-2,819,054	-1,160,154	980,935	50,179	20,819	778,502
ID Sch 1	16,755,498	9,268,696	-3,450,152	-703,489	-155,370	6,390,820	3,747,841	-7,549,185	-3,091,284	2,671,464	705,338	1,399,364	7,521,455
ID Sch 11	875,278	1,291,253	-483,255	-98,557	-30,755	225,550	677,027	-1,860,138	-759,631	654,036	82,564	130,615	1,046,569
ID Sch 21	-243,827	842,191	-317,857	-63,698	-22,042	-285,551	455,864	-1,481,464	-606,089	518,290	33,951	29,523	653,055

Prep by: _____ Ist Review: _____

Date: 4/24/2019 Mgr. Review: _____

Weather Sensitivity Regression Summary for January 2006 through December 2015

Adj R ²	Dependent Variable	Shoulder Mo. Apr, May, Jun, Oct, Nov	Winter Mo Heating Dec, Jan, Feb, Mar	Shoulder Mo Cooling Apr, May, Oct, Nov	Summer Mo Cooling Jun, Jul, Aug, Sep	Usage/Cust Base Load	Usage/Cust 2015 Low	Durbin Watson test results
Washington Electric								
0.964	WR1	0.454	0.610	1.260	1.207	612 ✓	679 No Autocorrelation	
0.941	WR11	0.244	0.319	0.000	0.337	369	415 Corrected with AR(1)	
0.915	WC11	0.270	0.461	2.858	1.506	1,768	1,816 Corrected with AR(1),(2)	
0.947	WI11	0.913	1.514	0.000	0.883	3,150	3,014 Corrected with AR(1),(2)	
0.917	WT11	0.248	0.414	2.201	1.139	1,373 ✓	1,420 Corrected with AR(1),(2)	
0.914	WR21	12.572	22.748	0.000	33.119	43,715	44,429 Corrected with AR(1),(2)	
0.945	WC21	0.000	2.533	0.000	15.811	56,106	55,189 Corrected with AR(1),(2)	
0.949	WT21	0.000	2.810	0.000	15.541	58,004 ✓	56,851 Corrected with AR(1),(2)	
Idaho Electric								
0.974	IR1	0.462	0.592	0.000	0.955	594	657 No Autocorrelation	
0.945	IR11	0.174	0.244	0.000	0.250	281	302 Corrected with AR(1)	
0.874	IC11	0.302	0.497	2.538	1.685	1,467	1,517 Corrected with AR(1)	
0.767	II11	0.479	0.752	0.000	1.162	2,619	2,530 Corrected with AR(1),(2)	
0.862	IT11	0.261	0.438	2.623	1.302	1,166	1,229 Corrected with AR(1)	
0.828	IR21	6.537	14.210	0.000	22.460	30,809	32,015 Corrected with AR(1)	
0.862	IC21	0.000	3.598	0.000	17.852	44,349	41,769 Corrected with AR(1)	
0.781	II21	13.171	22.844	0.000	0.000	119,225	94,657 Corrected with AR(1)	
0.880	IT21	0.000	3.850	0.000	16.485	49,098	45,657 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

Numerical reference

Rate Schedule

Electric Revenue Meters Report by Location Twelve Months Ended for Report Date : '12/31/2018'

State Cde:WA

Rate Schedule Num	Meters												12 Month Average	Total
	201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812		
0001	214,784	213,790	215,639	214,565	214,700	214,425	215,008	215,250	213,728	217,990	216,566	216,760	215,267	2,583,205
0002	414	408	406	405	399	404	400	398	394	398	377	366	398	4,770
0011	22,901	22,712	22,750	22,562	22,741	22,732	22,723	22,870	22,047	23,411	22,734	22,730	22,743	272,913
0012	9,566	9,369	9,436	9,385	9,435	9,406	9,565	9,482	9,398	9,672	9,573	9,600	9,491	113,887
0021	1,866	1,856	1,867	1,842	1,856	1,853	1,845	1,857	1,810	1,891	1,852	1,857	1,852	22,219
0022	48	47	47	47	49	48	47	47	49	49	46	44	47	568
0025	21	22	22	23	4	23	23	23	23	23	23	23	21	253
0030	49	49	48	48	50	49	50	50	49	52	51	46	49	591
0031	1,245	1,200	1,195	1,192	1,203	1,202	1,200	1,214	1,181	1,228	1,189	1,180	1,202	14,429
0032	1,193	1,212	1,209	1,179	1,210	1,196	1,214	1,209	1,184	1,225	1,201	1,194	1,202	14,426
0041	3	6	6	6	6	6	6	(5)	7	5	5	5	5	56
0042	354	342	349	350	349	349	352	354	347	354	350	357	351	4,207
0044	12	12	12	12	12	12	12	10	14	12	12	12	12	144
0045	9	9	9	9	9	9	9	9	7	9	9	9	9	106
0046	49	49	49	49	49	49	49	48	46	49	49	49	49	584
0047	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0048	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0058A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0095	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0099	-	-	-	-	-	-	-	-	-	-	-	-	-	-
025B	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total for WA	252,514	251,083	253,044	251,675	252,072	251,763	252,503	252,816	250,284	256,368	254,004	254,232	252,697	3,032,358

Total Meters Billed	Average	Total
001/002	215,198	2,587,975
011/012	32,467	366,800
021/022	1,914	22,767
025	21	253
030/031/032	2,487	29,446
04X	418	5,097
Total	252,514	3,032,358

Total Usage

Source Id	201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	12 Month Total
001/002	290,781,564	227,575,425	233,136,064	195,827,349	159,686,943	149,276,245	162,965,399	205,105,320	165,901,550	149,412,587	181,215,231	245,751,615	2,366,635,282
011/012	64,968,017	55,958,109	55,740,106	46,940,189	46,940,189	46,940,189	46,940,189	46,940,189	46,940,189	46,940,189	46,940,189	46,940,189	57,034,429
021/022	125,937,053	113,395,610	112,223,930	111,090,734	112,273,215	113,411,112	114,915,540	124,759,437	113,710,883	110,448,176	109,051,287	119,116,948	1,380,339,926
025	85,895,740	82,389,793	59,452,405	91,719,050	50,375,928	94,067,377	98,627,949	96,625,593	98,727,849	89,411,354	95,120,661	88,922,600	1,022,976,434
030/031/032	5,195,806	4,295,325	4,226,648	5,323,831	10,126,136	18,516,838	23,083,953	28,015,838	23,798,948	12,939,704	6,282,585	3,988,283	145,807,692
04X	1,677,510	1,505,149	1,474,262	1,503,569	1,565,521	1,544,274	1,517,441	1,578,869	1,535,455	1,534,836	1,517,748	1,567,398	18,542,032
Total	574,459,679	485,123,411	466,253,415	456,156,773	380,975,932	422,918,343	442,081,662	510,132,476	452,187,273	409,398,557	440,915,148	516,411,273	5,557,003,938

Unbilled Usage Report by Location Twelve Months Ended for Report Date : '12/31/2018'

Jurisdiction:WA

Source Id	201801	201802	201803	201804	201805	201806	201807	201808	201809	201810	201811	201812	12 Month Total
WA	120,366,856	120,366,856	120,366,856	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	1,404,303,528
0001	120,366,856	120,366,856	120,366,856	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	117,838,911	1,404,303,528
0002	351,593	351,593	351,593	351,593	351,593	351,593	351,593	351,593	351,593	351,593	351,593	351,593	4,219,707
001	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	1,580,938,823
0011	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	131,744,919	1,580,938,823
0012	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	30,705,832	368,369,960
002	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	4,464,316,525
0022	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	371,126,55	4,464,316,525
0025	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	11,830,759	142,011,551
0031	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	1,679,835	20,158,020
0032	158,264	158,264	158,264	158,264	158,264	158,264	158,264	158,264	158,264	158,264	158,264	158,264	1,900,208
011	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	25,948,763	311,385,156
012	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	3,411,721	40,940,665
021	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	55,178,026	662,136,711
022	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	1,673,055	20,076,665
031	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	2,033,911	24,406,733
032	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	1,574,640
025	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	131,220	1,574,640
Total	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	29,175,555	350,145,665

Total

51,059,258

WASHINGTON ELECTRIC SYSTEM

Rate Design Program Monthly Results

Schedule 001/002

	January	February	March	April	May	June	July	August	September	October	November	December	Annual Total
Block 1	151,512,321	141,466,634	142,517,511	135,568,626	125,355,525	119,985,680	124,395,493	136,967,087	125,866,009	122,188,592	132,704,076	147,335,507	1,605,883,060
Block 2	71,611,910	51,888,498	52,955,478	40,647,443	26,169,324	22,711,140	29,102,344	48,237,874	29,994,748	21,329,091	34,326,972	58,040,042	487,014,920
Block 3	67,657,489	34,220,294	37,663,075	19,611,280	8,162,094	6,579,425	9,467,561	19,900,359	10,020,793	5,894,904	14,184,909	40,376,066	273,738,248
Total	290,781,774	227,575,425	233,136,064	195,827,349	159,686,943	149,276,245	162,965,399	205,105,320	165,901,550	149,412,587	181,215,957	245,751,615	2,366,636,228
Billed Customers	215,198	214,198	216,045	214,971	215,099	214,829	215,408	215,648	214,122	218,388	216,943	217,126	2,587,975
Block 1 Limit	172,158,400	171,358,400	172,836,000	171,976,800	172,079,200	171,863,200	172,326,400	172,518,400	171,297,600	174,710,400	173,554,400	173,700,800	2,070,380,000
Revenue Run Total	290,781,554	227,575,425	233,136,064	195,827,349	159,686,943	149,276,245	162,965,399	205,105,320	165,901,550	149,412,587	181,215,231	245,751,615	2,366,635,282
Difference	(220)	-	-	-	-	-	-	-	-	-	(726)	-	(946)
Block 1	(115)	-	-	-	-	-	-	-	-	-	(532)	-	(646)
Block 2	(54)	-	-	-	-	-	-	-	-	-	(136)	-	(192)
Block 3	(51)	-	-	-	-	-	-	-	-	-	(57)	-	(108)
	(220)	-	-	-	-	-	-	-	-	-	(726)	-	(946)

Block 1	151,512,206	141,466,634	142,517,511	135,568,626	125,355,525	119,985,680	124,395,493	136,967,087	125,866,009	122,188,592	132,703,545	147,335,507	1,605,882,414
Block 2	71,611,910	51,888,498	52,955,478	40,647,443	26,169,324	22,711,140	29,102,344	48,237,874	29,994,748	21,329,091	34,326,834	58,040,042	487,014,728
Block 3	67,657,437	34,220,294	37,663,075	19,611,280	8,162,094	6,579,425	9,467,561	19,900,359	10,020,793	5,894,904	14,184,852	40,376,066	273,738,140
Total	290,781,554	227,575,425	233,136,064	195,827,349	159,686,943	149,276,245	162,965,399	205,105,320	165,901,550	149,412,587	181,215,231	245,751,615	2,366,635,282

Schedule 011/012

Block 1	42,745,540	38,837,676	38,933,851	36,146,390	33,467,839	32,159,461	32,750,084	35,795,140	33,023,553	32,887,811	34,411,206	39,380,652	430,539,202
Block 2	22,222,478	17,120,434	16,806,255	14,545,850	13,480,350	13,941,235	15,418,259	19,415,278	15,488,936	12,754,090	13,316,429	17,653,776	192,163,371
Total	64,968,017	55,958,109	55,740,106	50,692,240	46,948,189	46,100,697	48,168,344	55,210,418	48,512,488	45,641,901	47,727,635	57,034,429	622,702,573
Revenue Run Total	64,968,017	55,958,109	55,740,106	50,692,240	46,948,189	46,100,697	48,168,344	55,210,418	48,512,488	45,641,901	47,727,635	57,034,429	622,702,573
Block 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Block 2	-	-	-	-	-	-	-	-	-	-	-	-	-

Schedule 011/012

Block 1	37,258	34,384	35,115	33,839	33,701	36,258	38,809	40,959	39,565	34,722	33,331	35,265	433,207
Block 2	37,258	34,384	35,115	33,839	33,701	36,258	38,809	40,959	39,565	34,722	33,331	35,265	433,207
Total	74,516	68,768	70,230	67,678	67,402	72,516	77,618	81,918	79,130	69,444	66,662	70,530	866,414

kWh

Schedule 011/012

kVar	1,652	1,258	1,320	1,395	1,111	1,170	1,055	603	1,209	517	-	-	11,290
pf Charge	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50	\$ 0.50
Revenue	\$ 826.15	\$ 629.04	\$ 659.83	\$ 697.38	\$ 555.46	\$ 585.24	\$ 527.30	\$ 301.64	\$ 604.47	\$ 258.44	\$ -	\$ -	\$ 5,644.95

Schedule 021/022													
Block 1	112,379,483	102,383,445	101,406,579	99,905,132	100,538,961	100,470,596	101,224,704	108,956,712	100,959,335	99,664,630	98,294,810	106,702,034	1,232,886,422
Block 2	13,557,570	11,016,165	10,817,351	11,185,602	11,734,254	12,942,516	13,690,836	15,802,725	12,751,548	10,783,546	10,756,478	12,414,915	147,453,504
Total	125,937,053	113,399,610	112,223,930	111,090,734	112,273,215	113,413,112	114,915,540	124,759,437	113,710,883	110,448,176	109,051,287	119,116,948	1,380,339,926
Revenue Run Total	125,937,053	113,399,610	112,223,930	111,090,734	112,273,215	113,413,112	114,915,540	124,759,437	113,710,883	110,448,176	109,051,287	119,116,948	1,380,339,926

kWhs

Block 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Block 2	-	-	-	-	-	-	-	-	-	-	-	-	-

Block 1	112,379,483	102,383,445	101,406,579	99,905,132	100,538,961	100,470,596	101,224,704	108,956,712	100,959,335	99,664,630	98,294,810	106,702,034	1,232,886,422
Block 2	13,557,570	11,016,165	10,817,351	11,185,602	11,734,254	12,942,516	13,690,836	15,802,725	12,751,548	10,783,546	10,756,478	12,414,915	147,453,504
Total	125,937,053	113,399,610	112,223,930	111,090,734	112,273,215	113,413,112	114,915,540	124,759,437	113,710,883	110,448,176	109,051,287	119,116,948	1,380,339,926

Schedule 021/022

Block 1	210,545	208,449	207,857	204,820	216,435	230,316	233,099	245,686	231,523	222,778	209,709	213,446	2,634,662
Block 2	210,545	208,449	207,857	204,820	216,435	230,316	233,099	245,686	231,523	222,778	209,709	213,446	2,634,662
Total													

kW

Schedule 021/022													
kVar	16,884	17,330	17,289	19,379	20,856	21,238	22,413	11,833	22,397	22,192	19,719	19,947	231,477
pf Charge	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
pf Revenue	\$ 8,441.91	\$ 8,665.04	\$ 8,644.64	\$ 9,689.49	\$ 10,427.98	\$ 10,618.99	\$ 11,206.37	\$ 5,916.58	\$ 11,198.45	\$ 11,095.95	\$ 9,859.49	\$ 9,973.73	\$ 115,738.62

Schedule 30/31/32

Block 1	1,951,083	1,756,535	1,707,819	1,984,755	3,154,946	4,123,394	4,519,374	5,017,749	4,722,209	3,668,271	2,488,249	1,668,690	36,763,074
Block 2	564,979	488,715	480,994	487,764	922,172	1,390,680	1,678,980	1,807,480	1,524,992	986,075	457,610	438,930	11,229,371
Block 3	2,683,743	2,050,075	2,037,835	2,851,313	6,049,018	13,002,562	16,885,959	21,190,608	17,551,747	8,285,358	3,336,726	1,890,664	97,815,247
Total	5,199,806	4,295,325	4,226,648	5,323,831	10,126,136	18,516,637	23,083,953	28,015,838	23,798,948	12,939,704	6,282,585	3,998,283	145,807,692
Revenue Run Total	5,199,806	4,295,325	4,226,648	5,323,831	10,126,136	18,516,637	23,083,953	28,015,838	23,798,948	12,939,704	6,282,585	3,998,283	145,807,692

kWhs

Block 1	-	-	-	-	-	-	-	-	-	-	-	-	-
Block 2	-	-	-	-	-	-	-	-	-	-	-	-	-
Block 3	-	-	-	-	-	-	-	-	-	-	-	-	-

Block 1	1,951,083	1,756,535	1,707,819	1,984,755	3,154,946	4,123,394	4,519,374	5,017,749	4,722,209	3,668,271	2,488,249	1,668,690	36,763,074
Block 2	564,979	488,715	480,994	487,764	922,172	1,390,680	1,678,980	1,807,480	1,524,992	986,075	457,610	438,930	11,229,371
Block 3	2,683,743	2,050,075	2,037,835	2,851,313	6,049,018	13,002,562	16,885,959	21,190,608	17,551,747	8,285,358	3,336,726	1,890,664	97,815,247
Total	5,199,806	4,295,325	4,226,648	5,323,831	10,126,136	18,516,637	23,083,953	28,015,838	23,798,948	12,939,704	6,282,585	3,998,283	145,807,692

Schedule 31/32

kVar	469	505	471	654	842	1,265	983	534	559	76	-	-	6,359
pf Charge	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
pf Revenue	\$ 234.66	\$ 252.70	\$ 235.55	\$ 327.14	\$ 421.13	\$ 632.64	\$ 491.27	\$ 266.84	\$ 279.68	\$ 37.96	\$ -	\$ -	\$ 3,179.57

**Avista
Electric
Rate Spread**

No.	Type of Service	Schedule Number	Base Tariff Revenue Under Present Rates(1)	Percentage of Base Increase	Base Tariff Percent Increase	Proposed General Increase	Proposed Base Tariff Revenue	Adjusted Billed Revenue at Present Rates (2)	Power Cost Rate Adjustment Expiration	Percent Increase on Billed Revenue
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	Residential	1/2	\$216,075	109.92%	10.0%	\$21,656	\$237,731	\$220,074	\$0	9.8%
2	General Service	11/12	\$75,061	80.00%	7.3%	\$5,475	\$80,536	\$78,692	\$0	7.0%
3	Large General Service	21/22	\$125,677	100.00%	9.1%	\$11,460	\$137,137	\$131,866	\$0	8.7%
4	Extra Large General Service	25	\$66,744	100.00%	9.1%	\$6,086	\$72,830	\$69,157	\$0	8.8%
5	Pumping Service	30/31/32	\$12,039	100.00%	9.1%	\$1,098	\$13,136	\$12,659	\$0	8.7%
6	Street & Area Lights	41-48	<u>\$6,424</u>	0.00%	0.0%	<u>\$0</u>	<u>\$6,424</u>	\$6,790	<u>\$0</u>	0.0%
7	Total		\$502,020		9.1%	\$45,775	\$547,795	\$519,238	\$0	8.8%



Street & Area Lights

Data Source: Billing Report
Data Updated Daily

Jan 1, 2019 9:00:42 AM

State	SA Rate Schedule	Item Type	Light Count
WA	1048	HPA-SV	0
		MVB-MV	0
	1048 - Total		0
	W041	214-SMV	59
		411-SMV	1
		611-SMV	6
	W041 - Total		66
	W042	234-SHP	108
		421-SHP	2
		421L-SGL	1
		431-SHP	574
		431L-SGL	5,308
		431T-SGL	1,866
		432-SHP	98
		432L-SGL	136
		432T-SGL	29
		433-SHP	6
		433L-SGL	39
		433T-SGL	65
		434-SHP	2,470
		434L-SGL	465
		435-SHP	258
		435L-SGL	2,519
		435T-SGL	1,841
		436-SHP	135
		436L-SGL	95
		436T-SGL	271
		438-DSV	10
		441L-DBL	23
		441T-DBL	11
		474-DSV	247
		474L-DEC	60
		475-DSV	1
		484-DSV	123
		484L-DEC	38
		531-SHP	238
		531L-SGL	1,299
		531T-SGL	479
		532-SHP	111
		532L-SGL	707
		532T-SGL	153
		533-SHP	21
		533L-SGL	53
		533T-SGL	47
		535-SHP	115
		535L-SGL	788
		535T-SGL	392
		536-SHP	156
		536L-SGL	211
		536T-SGL	340
		541-DHPS	4
		541L-DBL	6
		542L-DBL	14
		542T-DBL	9
		546T-DBL	8
		631-SHP	86
		633-SHP	34
		636-SHP	2
		831-SHP	40
		831L-SGL	8
		831T-SGL	19
		832-SHP	3
		832L-SGL	29
		832T-SGL	2
		835-SHP	8
		835L-SGL	7
		835T-SGL	26
		836T-SGL	3
		842-DHPS	2
	W042 - Total		22,219

W044	431-SHP	2
	432-SHP	4
	433-SHP	10
	435-SHP	35
	531-SHP	2
	532-SHP	89
	533-SHP	2
	535-SHP	12
	632-SHP	5
	635-SHP	1
	732-SHP	25
	735-SHP	3
	835-SHP	13
	845-DHPS	1
W044 - Total		204
W045	415-MV	65
	419-MV	16
	515-MV	1
	615-MV	87
	715-MV	6
W045 - Total		175
W046	295L-LED	42
	335-HPS	8
	395L-LED	45
	435-SHP	18
	495-LED	36
	499-LED	41
	535-SHP	90
	635-SHP	256
	735-SHP	276
	835-SHP	57
	935-SHP	103
W046 - Total		972
W047	HAH-SV	104
	HAI-SV	17
	HAML-LED	24
	HANL-LED	5
	HAPL-LED	1
	HPA-SV	470
	HPAL-LED	337
	HPB-SV	987
	HPBL-LED	346
	HPC-SV	129
	HPCL-LED	95
	HPD-SV	672
	HPDL-LED	357
	HPE-SV	318
	HPDL-LED	292
	HPG-SV	49
	HPGL-LED	69
	HPKL-LED	1
	HPL-SV	45
	HPLL-LED	6
	HPO-SV	6
	HPS-SV	98
	HPSL-LED	7
	HPY-SV	14
	HPYL-LED	5
	MVA-MV	104
	MVB-MV	165
	MVC-MV	299
	MVD-MV	37
	MVE-MV	55
	MVF-MV	143
	MVI-MV	1
	MVJ-MV	2
	MVK-MV	2
	MVL-MV	3
	PA-30WP	53
W047 - Total		5,318
W048	HAAL-LED	7
	HAH-SV	4
	HAI-SV	2
	HAML-LED	13
	HAPL-LED	1
	HPA-SV	662
	HPAL-LED	582
	HPB-SV	444
	HPBL-LED	87
	HPC-SV	9
	HPCL-LED	5
	HPD-SV	198

HPDL-LED	59
HPE-SV	266
HPDL-LED	297
HPG-SV	5
HPL-SV	7
HPDL-LED	4
HPO-SV	1
HPOL-LED	5
HPS-SV	145
HPSL-LED	70
MVA-MV	255
MVB-MV	249
MVC-MV	21
MVD-MV	101
MVE-MV	56
MVF-MV	17
MVH-MV	21
MVK-MV	26
MVV-MV	2
PA-30W/P	2
SLB-SHP	30
SLC-SHP	19
SLD-SHP	1

W048 - Total	3,973
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WA - Total	32,827
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For Internal Use Only

Cost of Capital				Source
Capital Component	Capital Structure	Component Cost	Weighted Cost	
Long Term Debt	51.500%	5.6200%	2.894%	Settlement Stipulation
Preferred Equity	0.000%	0.0000%	0.000%	Settlement Stipulation
Common Equity	48.500%	9.5000%	4.608%	Settlement Stipulation
Total	100.00%		7.502%	

Grossed-up Rate of Return			
Tax Gross-up Factor			1.328
Weighted ROE * Tax Gross-up	1.328 * 4.608%		6.118%
Long Term Debt			2.894%
Preferred Equity * Tax Gross-up	1.328 * 0.000%		0.000%
Grossed-up Rate of Return			9.012%

Account Number	Plant in Service	Test Year Depreciation Expense	Effective Depreciation Rate
373 - Street Lighting	\$40,293,000	\$1,380,000	3.425%
Revenue Conversion Factor (Before FIT)			0.953323
Grossed-Up Depreciation Rate			3.593%

*From Cost of Service (Knox)

Capital Recovery Factor 12.605%

Cost of Capital			
Capital Component	Capital Structure	Component Cost	Weighted Cost
Long Term Debt	50.000%	5.1500%	2.575%
Preferred Equity	0.000%	0.0000%	0.000%
Common Equity	50.000%	9.9000%	4.950%
Total	100.00%		7.525%

Grossed-up Rate of Return			
Tax Gross-up Factor			1.325
Weighted ROE * Tax Gross-up	1.325 * 4.950%		6.557%
Long Term Debt			2.575%
Preferred Equity * Tax Gross-up	1.325 * 0.000%		0.000%
Grossed-up Rate of Return			9.132%

Account Number	Plant in Service	Test Year Depreciation Expense	Effective Depreciation Rate
373 - Street Lighting	\$42,485,000	\$1,386,000	3.262%
Revenue Conversion Factor (Before FIT)			0.955631
Grossed-Up Depreciation Rate			3.414%

*From Cost of Service (Knox)

Capital Recovery Factor 12.546%

AVISTA UTILITIES PROPOSED COST OF CAPITAL WASHINGTON ELECTRIC			
Proposed Capital Structure			
Component	Capital Structure	Cost	Weighted Cost
Debt	50.0%	5.15%	2.57%
Common	50.0%	9.90%	4.95%
Total	<u>100.00%</u>		<u>7.52%</u>

**AVISTA UTILITIES
REVENUE CONVERSION FACTOR
WASHINGTON ELECTRIC
TWELVE MONTHS ENDED DECEMBER 31, 2018**

Line No.	Description	Factor
1	Revenues	1.000000
	Expense:	
2	Uncollectibles	0.003782
3	Commission Fees	0.002000
4	Washington Excise Tax	0.038587
6	Total Expense	<u>0.044369</u>
7	Net Operating Income Before FIT	0.955631
8	Federal Income Tax @ 21%	<u>0.200683</u>
9	REVENUE CONVERSION FACTOR	<u><u>0.754948</u></u>

Washington
Schedule 46 Customer LED Rates

LED Wattage	Implied kWh Usage	Schedule 46 Custom Rate	Monthly Base Rate	Code	kWh Calc	
Up to 10W LED	2	\$ 0.10519	\$ 0.21	005L	5	2
11-20W LED	5	\$ 0.10519	\$ 0.53	015L	15	5
21-30W LED	9	\$ 0.10519	\$ 0.95	025L	25	9
31-40W LED	13	\$ 0.10519	\$ 1.37	035L	35	13
41-50W LED	16	\$ 0.10519	\$ 1.68	045L	45	16
51-60W LED	20	\$ 0.10519	\$ 2.10	055L	55	20
61-70W LED	23	\$ 0.10519	\$ 2.42	065L	65	23
71-80W LED	27	\$ 0.10519	\$ 2.84	075L	75	27
81-90W LED	31	\$ 0.10519	\$ 3.26	085L	85	31
91-100W LED	34	\$ 0.10519	\$ 3.58	095L	95	34
101-110W LED	38	\$ 0.10519	\$ 4.00	105L	105	38
111-120W LED	41	\$ 0.10519	\$ 4.31	115L	115	41
121-130W LED	45	\$ 0.10519	\$ 4.73	125L	125	45
131-140W LED	49	\$ 0.10519	\$ 5.15	135L	135	49
141-150W LED	52	\$ 0.10519	\$ 5.47	145L	145	52
151-160W LED	56	\$ 0.10519	\$ 5.89	155L	155	56
161-170W LED	59	\$ 0.10519	\$ 6.21	165L	165	59
171-180W LED	63	\$ 0.10519	\$ 6.63	175L	175	63
181-190W LED	67	\$ 0.10519	\$ 7.05	185L	185	67
191-200W LED	70	\$ 0.10519	\$ 7.36	195L	195	70
201-225W LED	77	\$ 0.10519	\$ 8.10	212L	213	77
226-250W LED	86	\$ 0.10519	\$ 9.05	237L	238	86

Avista
 Washington LED Fiberglass Lights
 Schedule 42 & 47

60W LED 30ft Fiberglass direct bury	Engineering Estimate of Cost	Capital Cost Recovery Factor	Annual Capital Component Cost	Monthly Capital Component Cost
107W LED 35ft Fiberglass direct bury	\$2,206.20	12.605%	\$278.09	\$23.17
	\$2,330.95	12.605%	\$293.82	\$24.48
	Wattage Equivalent	Average Monthly kWh's	Schedule 46 Energy Rate	Monthly Energy Cost
Energy LED	100	26	\$0.10519	\$2.73
Energy LED	200	39	\$0.10519	\$4.10
LED Light Maintenance		Lifetime Maintenance	Design Life (Years)	Monthly Maintenance Cost
		\$74.00	15	\$0.41
		Base Rate	Code	Rate
		Base Rate	494L / HAOL	\$26.32
			594L / HAQL	\$29.00

** Must add all adder schedules to get the billing rate

LED Fiberglass
 LED Floodlight

Avista
 Washington LED Area Floodlights
 Schedule 47

LED Floodlight (No Pole)	<u>Engineering Estimate of Cost</u>	<u>Capital Cost Recovery Factor</u>	<u>Annual Capital Component Cost</u>	<u>Monthly Capital Component Cost</u>
PA (Wood Pole) Rate	\$953.86	12.605%	\$120.23	\$10.02 \$6.37

Energy LED	<u>Wattage</u>	<u>Estimated Hours</u>	<u>Average Monthly kWh's</u>	<u>Schedule 46 Energy Rate</u>	<u>Monthly Energy Cost</u>
	125	333.33	42	\$0.10519	\$4.42
LED Floodlight Maintenance		<u>Lifetime Maintenance</u>	<u>Design Life (Years)</u>	<u>Monthly Maintenance Cost</u>	
		\$148.00	15	\$0.82	

	<u>Base Rate</u>	<u>Code</u>	<u>Rate</u>
		HAML	\$15.26
	<u>Base Rate</u>	HANL	\$21.63
			LED Floodli:
			LED Floodli:

** Must add all adder schedules to get the billing rate

Schedule 47
 70W LED on 35 ft direct buired Steel Pole or 30ft pedestal steel pole
 Rate

HPAL	\$ 13.75
HPBL	\$ 19.53
Differential	\$ (5.78)
HPLL	34.07
Differential	\$ (5.78)
HPKL	\$ 28.29

70W LED on 30 ft direct buried steel pole

Used differential from luminaire on existing standard between 107W and 70W equivalent LED to determine differntial for 35ft steel pole

HAAL 28.29