Exh. EMA-4	_
BEFORE THE WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION	
DOCKET NO. UE-19	
DOCKET NO. UG-19	
EXH. EMA-4	
ELIZABETH M. ANDREWS	
REPRESENTING AVISTA CORPORATION	

(a)	(b)	(c)
Growth Rate 2014-2018	Revenue Portion of Category	Growth Rate % (a) x (b)
2.42%	35.55%	0.86%
8.34%	21.94%	1.83%
4.00%	10.05%	0.40%
5.95%	32.46%	1.93%
_	100.00%	-0.88%
		4.14%
	Growth Rate 2014-2018 2.42% 8.34% 4.00% 5.95%	Growth Rate 2014-2018 Revenue Portion of Category 2.42% 35.55% 8.34% 21.94% 4.00% 10.05% 5.95% 32.46% 100.00%

 $^{^{(1)}}$ Reflects a 30 basis points efficiency adjustment in O&M expenses.

⁽²⁾ The growth rate in depreciation/amortization expense is primarily driven by shorter-lived assets representing a higher proportion of investment in recent years.

AVISTA	UTILITIES	

	TA UTILITIES			1
	HINGTON ELECTRIC RESU	12 2019	Remove	
	NUE GROWTH RATE CAL VE MONTHS ENDED DEC	12.2018 CBR	Authorized Power Supply	
	OF DOLLARS)	Results	1 ower Suppry	
Line		Restated TOTAL	Remove Authorized	Non-Energy Restated
No.	DESCRIPTION	IOIAL	Power Supply	Total
- 1.01	Adjustment Number	R-Ttl	Remove	NE-Total
	Workpaper Reference			
	REVENUES			
1	Total General Business	\$496,969	(100,725)	\$396,244
2	Interdepartmental Sales Sales for Resale	1,101 42,344	(42,344)	1,101
4	Total Sales of Electricity	540,414	(143,069)	397,345
5	Other Revenue	18,053	(9,967)	8,086
6	Total Electric Revenue	558,467	(153,036)	405,431
	EXPENSES			
	Production and Transmission	1		-
7	Operating Expenses	132,992	(74,599)	58,393
8	Purchased Power	73,968	(73,968)	29.724
10	Depreciation/Amortization Regulatory Amortization	28,724 3,308	-	28,724 3,308
11	Taxes	16,795	-	16,795
12	Total Production & Transmi	255,787	(148,567)	107,220
	Distribution			
13 14	Operating Expenses	23,753	-	23,753
14	Depreciation/Amortization Regulatory Amortization	32,066	-	32,066
15	Taxes	28,420	(\$3,887)	24,533
16	Total Distribution	84,239	(3,887)	80,352
17	Customer Accounting	11,983	(\$381)	11,602
18	Customer Service & Informa	1,551	-	1,551
19	Sales Expenses	59	-	59
	Administrative & General			
20	Operating Expenses	51,109	(\$201)	50,908
21	Depreciation/Amortization	29,471	-	29,471
22 23	Regulatory Deferrals/Amo Taxes	(1,999)	-	(1,999)
24	Total Admin. & General	78,581	(201)	78,380
25	Total Electric Expenses	432,200	(153,036)	279,164
		,_,	(222,020)	
26	OPERATING INCOME BEI	126,267	-	126,267
27	FEDERAL INCOME TAX Current Accrual	12,179		12,179
28	Debt Interest	12,179	-	12,179
29	Deferred Income Taxes	1,014	-	1,014
30	Amortized ITC - Noxon	(317)	-	(317)
31	NET OPERATING INCOM	112 266	-	112 266
31	NET OFERATING INCOME	113,266	-	113,266
	PLANT IN SERVICE	****	**	****
32 33	Intangible Production	\$189,271 905,266	\$0	\$189,271 905,266
34	Transmission	477,024	-	477,024
35	Distribution	1,086,668	-	1,086,668
36	General	260,548	-	260,548
37	Total Plant in Service	2,918,777	-	2,918,777
38	ACCUMULATED DEPREC Intangible	IATION/AMORT (43,469)		(43,469)
39	Production	(365,167)	-	(\$365,167)
40	Transmission	(140,271)	-	(140,271)
41	Distribution	(335,270)	-	(335,270)
42 43	General Total Accumulated Danracia	(93,140)	-	(93,140)
43 44	Total Accumulated Deprecia NET PLANT	(977,317) 1,941,460	-	(977,317) 1,941,460
		-,- 11,100		-, -2, 100
45	DEFERRED TAXES	(411,001)	-	(411,001)
46	Net Plant After DFIT	1,530,459	-	1,530,459
47 48	DEFERRED DEBITS AND WORKING CAPITAL	(2,139) 46,614	-	(2,139) 46,614
49	TOTAL RATE BASE	\$1,574,934	\$0	1,574,934
				Pro Forma Non- Energy
				Likigy

REVENUE GROWTH RATE CALCULATION

Authorized R	OR				
	Capital		Weighted		Tax on
Component	Structure	Cost	Cost		equity
Total Debt	51.5%	5.62%	2.89%	Tax	return
Common	48.5%	9.50%	4.61%	26.58%	1.23%
Total	100.00%		7.50%		
	Tax on F	Equity Return	1.23%		
Total % to apply to RB		apply to RB	8.73%		

			Rate Year 2	
	Revenue on CB Less PS*	Portion of Total	2014-2018 Growth Rate	
Depreciation	90,261	21.94%	8.34%	Includes
O&M	146,266	35.55%	2.42%	30 bps
Taxes OTI	41,328	10.05%	4.00%	Efficiency
				Reduction
Net Plant After ADFIT				
1,530,459	133,539	32.46%	5.95%	
(RB*8.73%)		100.00%		
Non PS Revenue	\$ 411,394	Non-ERM revenu	ies (1)	
*includes revenue related	•			
Non-ERM Revenues, co	vering investmen	nt-related costs and of	perating expense	es.

Revenues Growth: (see w/ps - 2.25 years from 2018	to 03.31.20	021)	
		Α	nnual
\$	11,822	\$	3,638
Revenue Growth	to remove:		-0.88%

	Rate Yr 2 04.2021-03.2022 Growth Rate	
Depreciation	1.83%	
O&M	0.86%	includes efficiency adj.
Taxes OTI	0.40%	
Net Plant After ADFIT	1.93%	
Revenues	-0.88% 4.14%	

ELECTRIC COST AND REVENUE TREND CALCULATIONS 2014-2018 Commission Basis Results of Operations AVISTA UTILITIES

(000'S	OF DOLLARS)	

	S OF DOLLARS)					
Line		2014	2015	2016	2017	2018
	REVENUES					
1	Total General Business	\$488,372	\$497,229	\$492,413	\$493,969	\$496,969
2	Interdepartmental Sales	922	928	946	1,005	1,101
3	Sales for Resale	60,998	49,505	57,854	57,892	42,344
4	Total Sales of Electricity	550,292	547,662	551,213	552,866	540,414
5	Other Revenue	17,163	16,920	17,310	21,855	18,053
6	Total Electric Revenue	567,455	564,582	568,523	574,721	558,467
	EXPENSES					
_	Production and Transmission	120 207	1.40.405	126.205	10454	122.002
7	Operating Expenses	120,307	140,485	136,385	136,766	132,992
8 9	Purchased Power	116,643 23,715	85,107	78,794 26,676	77,895	73,968
10	Depreciation/Amortization Regulatory Amortization	8,101	24,947 5,974	4,706	27,841 3,597	28,724 3,308
11	Taxes	12,828	14,133	14,654	14,743	16,795
	Total Production & Transmission	281,594	270,646	261,215	260,842	255,787
12		201,374	270,040	201,213	200,042	233,767
10	Distribution	21 200	24.056	21.415	21.461	22.752
13	Operating Expenses	21,299	24,056	21,415	21,461	23,753
14	Depreciation/Amortization	23,794	25,379	27,819	29,786	32,066
15	Taxes	25,821	27,448	27,287	27,300	28,420
16	Total Distribution	70,914	76,883	76,521	78,547	84,239
17	Customer Accounting	11,166	12,363	13,021	12,312	11,983
18	Customer Service & Information	1,383	1,454	1,406	1,449	1,551
19	Sales Expenses	0	0	0	0	59
	Administrative & General					
20	Operating Expenses	46,210	49,942	48,989	47,166	51,109
21	Depreciation/Amortization	16,947	21,503	23,877	25,247	27,999
22	Regulatory Deferrals/Amortizati	0	0	0	(254)	(527)
23	Taxes	0	0	0	0	0
24	Total Admin. & General	63,157	71,445	72,866	72,159	78,581
25	Total Electric Expenses	428,214	432,791	425,029	425,309	432,200
26	OPERATING INCOME BEFORE FI	139,241	131,791	143,494	149,412	126,267
27	FEDERAL INCOME TAX	(7, 602)	4.060	(20,001)	7.621	10 170
	Current Accrual	(7,683)	4,968	(29,081)	7,621	12,179
28 29	Debt Interest Deferred Income Taxes	(136)	20.402	21	27	125
30	Amortized ITC - Noxon	46,085 (128)	29,492 (129)	67,191 (326)	30,867 (226)	1,014 (317)
30	Alliottized ITC - Noxoli	0	0	(320)	0	0
31	NET OPERATING INCOME	\$101,103	\$97,459	\$105,689	\$111,123	\$113,266
	(1) Corrected excise tax error in		ψ,,,,	ψ100,00>	\$111,12 5	ψ110,200
	RATE BASE	II 201 7 -2013.				
	PLANT IN SERVICE					
32	Intangible	\$102,620	\$144,970	\$156,057	\$163,474	\$189,271
33	Production	746,101	779,441	832,833	879,704	905,266
34	Transmission	371,971	401,700	430,613	451.003	477.024
35	Distribution	842,795	895,055	970,455	1,033,739	1,086,668
36	General	196,867	212,726	233,266	242,339	260,548
37	Total Plant in Service	2,260,354	2,433,892	2,623,224	2,770,259	2,918,777
	ACCUMULATED DEPRECIATION/	AMORT				
38	Intangible	20,242	24,943	30,914	37,059	43,469
39	Production	325,531	342,899	351,625	352,091	365,167
40	Transmission	123,869	129,936	135,624	136,838	140,271
41	Distribution	252,722	273,578	295,383	314,013	335,270
42	General	65,720	73,050	80,093	85,360	93,140
43	Total Accumulated Depreciation	788,084	844,406	893,639	925,361	977,317
44	NET PLANT	1,472,270	1,589,486	1,729,585	1,844,898	1,941,460
45	DEFERRED TAXES	(257,766)	(317,860)	(353,900)	(396,851)	(411,008)
46	Net Plant After Deferred Inco	1,214,504	1,271,626	1,375,685	1,448,047	1,530,452
47	DEFERRED DEBITS AND CREDIT	10,846	7,458	4,566	2,110	(2,132)
48	WORKING CAPITAL	47,807	59,722	62,474	63,549	46,614
49	TOTAL RATE BASE		\$1,338,806	\$1,442,726	\$1,513,706	\$1,574,934
49	TOTAL RATE DASE	\$1,273,157	00,000,000	φ1,442,720	φ1,ε1ε,100	\$1,374,734

ELECTRIC COST AND REVENUE TREND CALCULATIONS 2014-2018

AVISTA UTILITIES
WASHINGTON ELECTRIC RESULTS
(000'S OF DOLLARS)

	_	2014	2015	2016	2017	2018
Line	_					
No.	Exclude Power Supply and A	dder Schedule	Expenses (DS	M Tariff Rider	and Residential I	Exchange Credit) from
1	Production/Transmission	120,307	140,485	136,385	136,766	132,992
2	Purchased Power	116,643	85,107	78,794	77,895	73,968
3	Distribution	21,299	24,056	21,415	21,461	23,753
4	Customer Accounting	11,166	12,363	13,021	12,312	11,983
5	Customer Service and Information	1,383	1,454	1,406	1,449	1,551
6	Sales	0	0	0	0	59
7	Administrative and General	46,210	49,942	48,989	47,166	51,109
8	Total Operating & Maintenance Expe	317,008	313,407	300,010	297,049	295,415
9	Deduct Power Supply Expenses	(186,117)	(175,095)	(159,612)	(157,982)	(148,565)
10	Deduct DSM Tariff Rider Exper	0	0	0	0	0
11	Deduct Res X Credit Expenses	0	0	0	0	0
	CS2/Colstrip 2012 Deferral/Am	1,000	1,000	1,100	0	0
	Remove Wind Storm		(2,303)	0	0	0
12	Adjusted Operating Expenses	131,891	137,009	141,498	139,067	146,850
	_		3.88%	3.28%	-1.72%	5.60%
	Depreciation/Amortization	2014	2015	2016	2017	2018
	Depreciation/Amortization					
13	Production/Transmission	23,715	24,947	26,676	27,841	28,724
13 14	-			26,676 27,819	27,841 29,786	28,724 32,066
	Production/Transmission	23,715	24,947			,
14	Production/Transmission Distribution	23,715 23,794	24,947 25,379	27,819	29,786	32,066
14 15	Production/Transmission Distribution Administrative and General	23,715 23,794 16,947	24,947 25,379 21,503	27,819 23,877	29,786 25,247	32,066 27,999
14 15	Production/Transmission Distribution Administrative and General	23,715 23,794 16,947 64,456	24,947 25,379 21,503 71,829 11.44%	27,819 23,877 78,372 9.11%	29,786 25,247 82,874 5.74%	32,066 27,999 88,789 7.14%
14 15	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization	23,715 23,794 16,947 64,456	24,947 25,379 21,503 71,829 11.44%	27,819 23,877 78,372 9.11%	29,786 25,247 82,874 5.74%	32,066 27,999 88,789 7.14%
14 15 16	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to	23,715 23,794 16,947 64,456 axes (DSM Tar	24,947 25,379 21,503 71,829 11.44%	27,819 23,877 78,372 9.11% Residential Exch	29,786 25,247 82,874 5.74% mange Credit) from	32,066 27,999 88,789 7.14% m Taxes Other Than
14 15 16	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to Production/Transmission	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133	27,819 23,877 78,372 9.11% Residential Exch 14,654	29,786 25,247 82,874 5.74% nange Credit) from 14,743	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795
14 15 16 20 21	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to Production/Transmission Distribution	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828 25,821	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448	27,819 23,877 78,372 9.11% Residential Excl 14,654 27,287	29,786 25,247 82,874 5.74% nange Credit) from 14,743 27,300	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795
14 15 16 20 21 22	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to Production/Transmission Distribution Administrative and General	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828 25,821 0	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448 0	27,819 23,877 78,372 9.11% Residential Excl 14,654 27,287 0	29,786 25,247 82,874 5.74% nange Credit) fro 14,743 27,300 0	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795 28,420 0
14 15 16 20 21 22 23	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to Production/Transmission Distribution Administrative and General Total Taxes Other Than Income Tax	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828 25,821 0 38,649 0	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448 0 41,581 0	27,819 23,877 78,372 9.11% Residential Exch 14,654 27,287 0 41,941 0	29,786 25,247 82,874 5.74% nange Credit) from 14,743 27,300 0 42,043 0	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795 28,420 0 45,215 0 0
14 15 16 20 21 22 23 24	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise to Production/Transmission Distribution Administrative and General Total Taxes Other Than Income Tax Deduct DSM Tariff Rider Excise	23,715 23,794 16,947 64,456 axes (DSM Tai 12,828 25,821 0 38,649 0	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448 0 41,581	27,819 23,877 78,372 9.11% Residential Exch 14,654 27,287 0 41,941	29,786 25,247 82,874 5.74% tange Credit) fro 14,743 27,300 0 42,043	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795 28,420 0 45,215 0
14 15 16 20 21 22 23 24 25	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise ta Production/Transmission Distribution Administrative and General Total Taxes Other Than Income Tax Deduct DSM Tariff Rider Excise Deduct Res X Credit Excise Tap	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828 25,821 0 38,649 0	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448 0 41,581 0	27,819 23,877 78,372 9.11% Residential Exch 14,654 27,287 0 41,941 0	29,786 25,247 82,874 5.74% nange Credit) from 14,743 27,300 0 42,043 0	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795 28,420 0 45,215 0 0
14 15 16 20 21 22 23 24 25 26	Production/Transmission Distribution Administrative and General Total Depreciation/Amortization Exclude Adder Schedule excise ta Production/Transmission Distribution Administrative and General Total Taxes Other Than Income Tax Deduct DSM Tariff Rider Excise Deduct Res X Credit Excise Tap	23,715 23,794 16,947 64,456 axes (DSM Tar 12,828 25,821 0 38,649 0	24,947 25,379 21,503 71,829 11.44% riff Rider and R 14,133 27,448 0 41,581 0 0	27,819 23,877 78,372 9.11% Residential Exch 14,654 27,287 0 41,941 0 0	29,786 25,247 82,874 5.74% tange Credit) fro 14,743 27,300 0 42,043 0 0	32,066 27,999 88,789 7.14% m Taxes Other Than 16,795 28,420 0 45,215 0 0 45,215

ANNUAL GROWTH RATES

Line Electric Revenue Growth Rate Analysis

No. 5-Year Compound Growth Rate 2014 to 2018

			2014-2018			
1	Adjusted Operating Expenses		2.72%		2.42%	30 bps Efficiency
2	Total Depreciation/Amortization		8.34%			Adj
3	Adjusted Taxes Other than Income		4.00%			
4	Net Plant After Deferred Income Tax	es	5.95%			Rate Year 2
		Portion	2014-2018			04.2021-03.2022
5	Depreciation	21.94%	1.83%	I	includes 30	1.83%
6	O&M	35.55%	0.97%		bps Eff	0.86%
7	Taxes OTI	10.05%	0.40%	A	Adjustment	0.40%
8	Net plant After ADFIT	32.46%	1.93%			1.93%
9	Revenues		-0.88%			-0.88%
10	Total K Factor %		4.25%			4.14%

Decoupled Revenue Comparison

12 ME December 2018 Test Year	UE-19 Propos	ed Decoupling Base	e at Present Rates				
Electric Service		RESIDENTIAL	GENERAL SVC.	LG. GEN. SVC.	PUMPING	EX LG GEN SVC	ST & AREA LTG
	TOTAL	SCHEDULE 1	SCH. 11,12	SCH. 21,22	SCH. 30, 31, 32	SCHEDULE 25	SCH. 41-48
Revenue at Present Rates	\$502,300,000	\$ 216,075,000	\$ 75,061,000	\$ 125,677,000	\$ 12,039,000	\$ 66,744,000	\$ 6,704,000
Usage	5,637,842,826	2,374,703,689	619,305,952	1,365,904,624	145,822,517	1,113,564,012	18,542,032
Customer Bills	3,027,008	2,587,975	386,800	22,787	29,446		
Fixed Charge per Bill		\$9.00	\$20.00	\$500.00	\$20.00		
Decoupled Power Cost Revenue \$0.018	95 \$106,837,122	\$45,000,635	\$11,735,848	\$25,883,893	\$2,763,337	\$21,102,038	\$351,372
Decoupled Fixed Charge Revenue	\$43,010,195	\$23,291,775	\$7,736,000	\$11,393,500	\$588,920		
Revenue Not Subject to Decoupling	\$51,994,590					\$ 45,641,962	\$ 6,352,628
Decoupled Revenues from Rates	\$300,458,093	\$ 147,782,590	\$55,589,152	\$88,399,607	\$8,686,743	\$0	\$0
Allowed Annual Decoupled Revenue per Custo	mer	\$685.24	\$4,173.05	Us	age Per Customer	average \$/kWh	UE-19 Base
Allowed Decoupled Revenues	\$300,457,554	\$147,781,999	\$152,675,555		Residential	\$ 0.062232	11,011.08
Decoupling Revenue Adjustment	(\$539)	(\$591)	\$52		Non-Residential	\$ 0.071644	58,247
					Average Customer	's	
Total Revenue with Decoupling	\$502,299,461				Residential		215,665
Exclude Power Cost Revenue	\$395,462,340				Non-Residential		36,586
Test Year Annual Decoupled Revenue per Cust	omer	\$685.24	\$4,173.05				

12 ME March 2022 Forecast Customers	S	2019 Fir	nal Budget Version	EREV December M	lid-r	month_v4_12 13 18	GRC and decoupl	ing	update -1-18-19.xl	sm	
Electric Service			RESIDENTIAL	GENERAL SVC.		LG. GEN. SVC.	PUMPING	Е	EX LG GEN SVC		ST & AREA LTG
		TOTAL	SCHEDULE 1,2	SCH. 11,12		SCH. 21,22	SCH. 30, 31, 32		SCHEDULE 25		SCH. 41-48
	_										
Base Rate Revenue at Present Rates		\$514,830,305	\$ 220,522,480	\$ 78,275,307	\$	128,826,247	\$ 12,250,572	\$	68,976,262	\$	5,979,438
Usage		5,797,861,119	2,420,743,011	646,694,762		1,404,986,747	144,343,311		1,168,768,789		12,324,499
Customer Bills		3,109,452	2,651,340	405,284		22,864	29,965				
Fixed Charge per Bill			\$9.00	\$20.00)	\$500.00	\$20.00				
Decoupled Power Cost Revenue \$0	0.01895	\$109,869,468	\$45,873,080	\$12,254,866		\$26,624,499	\$2,735,306		\$22,148,169		\$233,549
Decoupled Fixed Charge Revenue		\$43,999,081	\$23,862,060	\$8,105,671		\$11,432,056	\$599,294				
Revenue Not Subject to Decoupling		\$52,573,982						\$	46,828,094	\$	5,745,888
Decoupled Revenues from Rates		\$308,387,774	\$150,787,340	\$57,914,770		\$90,769,692	\$8,915,972		\$0		\$0
Allowed Annual Decoupled Revenue per C	Customer		\$685.24	\$4,173.05							
Allowed Decoupled Revenues		\$310,710,825	\$151,400,352	\$159,310,473							
Decoupling Revenue Adjustment		\$2,323,051	\$613,011	\$1,710,040							
Total Revenue with Decoupling		\$517,153,356									

Change in Non-Power Supply Reve	\$11,821,549			
Annual Average Revenue Growth	3.25 years	<u>\$3,637,400</u>		

Exclude Power Cost Revenue

\$407,283,888