

*Exhibit No.:*  
*Issue:* *Electric Rate Comparison*  
*Witness:* *Phillip K. Williams, CPA, CIA*  
*Sponsoring Party:* *MoPSC Staff*  
*Type of Exhibit:* *Rebuttal Testimony*  
*Case Nos.:* *ER-2004-0034 and HR-2004-0024*  
*(Consolidated)*  
*Date Testimony Prepared:* *January 26, 2004*

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY SERVICES DIVISION**

**REBUTTAL TESTIMONY**

**OF**

**PHILLIP K. WILLIAMS, CPA, CIA**

**AQUILA, INC.**  
**d/b/a AQUILA NETWORKS-MPS**  
**AQUILA NETWORKS-L&P**

**CASE NOS. ER-2004-0034 AND HR-2004-0024**  
**(Consolidated)**

*Jefferson City, Missouri*  
*January 2004*

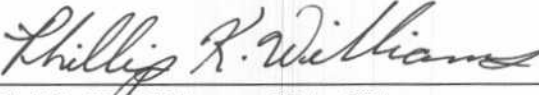
**BEFORE THE PUBLIC SERVICE COMMISSION**  
**OF THE STATE OF MISSOURI**

In the matter of Aquila, Inc. d/b/a Aquila networks )  
L&P and Aquila Networks MPS to implement a ) Case No. ER-2004-0034  
general rate increase in electricity. )  
)  
In the matter of Aquila, Inc. d/b/a Aquila networks )  
L&P to implement a general rate increase in Steam ) Case No. HR-2004-0024  
Rates. )  
)

AFFIDAVIT OF PHILLIP K. WILLIAMS, CPA, CIA

STATE OF MISSOURI     )  
                                  )     ss.  
COUNTY OF COLE     )

Phillip K. Williams, CPA, CIA, of lawful age, on his oath states: that he has participated in the preparation of the following rebuttal testimony in question and answer form, consisting of 6 pages to be presented in the above case; that the answers in the following rebuttal testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.

  
\_\_\_\_\_  
Phillip K. Williams, CPA, CIA

Subscribed and sworn to before me this 22nd day of January 2004.



  
\_\_\_\_\_

TONI M. CHARLTON  
NOTARY PUBLIC STATE OF MISSOURI  
COUNTY OF COLE  
My Commission Expires December 28, 2004



1 also recognize that the impact on customers from a 23.4% increase would be significant.  
2 Therefore, Aquila senior management made the decision to mitigate the impact somewhat by  
3 having the Company absorb a portion (about \$14 million) of the revenue deficiency.”

4 Q. What are Aquila’s electric rates in relation to Missouri’s other regulated  
5 electric utilities?

6 A. Aquila Networks – MPS’s (MPS) existing rates for 2002, are the second  
7 lowest in Missouri. However, if the proposed electric rate increase for MPS is granted, MPS  
8 will have the highest electric rates in the state. For the years 1995 through 1999 my analysis  
9 shows that MPS electric rates were the highest in the state. However, they were in the  
10 middle of the five companies analyzed for the years 2000 and 2001.

11 Q. Will you please provide this Commission with a comparison of costs for the  
12 electric residential customers of Aquila Networks – MPS with respect to other Missouri  
13 investor-owned electric utilities?

14 A. Yes. Attached as Schedule 1 to my testimony, is a comparison of the  
15 operating revenues divided by kilowatt-hour (kWh) sales, of Missouri’s four largest investor-  
16 owned utilities, with five rate jurisdictions by year for the period 1995-2002. Aquila, Inc.  
17 has two electric divisions’ they are Aquila Networks – MPS (Missouri Public Service) and  
18 Aquila Networks – L&P (St. Joseph Light and Power). The revenue per kWh numbers  
19 represent the residential customer’s cost per kWh. Operation revenues divided by kWh sales  
20 is equivalent to cents per kWh of operating revenues. Cents per kWh of operating revenues  
21 is equal to the cost per kWh of energy charged to the customers by utilities.

22 This information was supplied in Annual reports filed with the Commission and can  
23 be found on pages 300 and 301 of the FERC Form 1. Of the four largest investor owned

1 electric utilities Aquila Networks – MPS cost per kWh for the residential customers is  
2 currently in the middle of the range for the five rate jurisdictions. However a rate increase of  
3 the magnitude requested by the Company for the Aquila Networks – MPS division would  
4 change the cost per kWh for the Aquila Networks – MPS division to the highest cost per  
5 kWh in the state for the residential customers.

6 The following information is a summary of the analysis included in Schedule 1 of my  
7 testimony.

8 **1995**

9 MPS' average rate per kWh of \$.082040 was the highest of the five  
10 Companies.

11 MPS' average rate per kWh was 3.965% higher than the next highest  
12 rate.

13 L&P's average rate per kWh of \$.060620 was the second lowest rate.

14 **1996**

15 MPS' average rate per kWh of \$.080530 was the highest of the five  
16 Companies.

17 MPS' average rate per kWh was 2.6854% higher than the next highest  
18 rate.

19 L&P's average rate per kWh of \$.059532 was the lowest rate of the  
20 five companies.

21 **1997**

22 MPS' average rate per kWh of \$.080488 was the highest of the five  
23 Companies.

24 MPS' average rate per kWh was 4.3659% higher than the next highest  
25 rate.

26 L&P's average rate per kWh of \$.059646 was the lowest rate of the  
27 five companies.

28 **1998**





Rebuttal Testimony of  
Phillip K. Williams, CPA, CIA

1 Company has requested a significant increase in rates, which Mr. Stamm states is less than  
2 the amount Company's analysis would justify, Staff believes the Company's rates request, if  
3 granted in its entirety, would increase the MPS customers rates to the highest level in the  
4 state. The Aquila Networks – MPS residential rate if granted in its entirety would be 7.50%  
5 higher than the highest average rate for 2002.

6 Q. Do you have any additional information concerning the rate of the Company?

7 A. Yes. Attached to my testimony as Schedule 3, pages 3-2 and 3-3 is a  
8 Company analysis used by the Company's Chief Executive Officer Richard Green showing  
9 the Company's current rate comparison using a bar graph to a number of other electric  
10 utilities within the industry and the Aquila rate comparison after the proposed increase. The  
11 Company's analysis shows the current rates for Aquila Network – MPS as the eleventh  
12 lowest rate of 31 companies depicted. However, Aquila Networks – MPS becomes the  
13 highest rates of all companies depicted if the proposed increase were implemented in full.

14 Q. How did the Company use the above analysis?

15 A. Aquila conducted a series of meetings with its customers in various locations  
16 throughout the Company's service territory. These Community meetings were held shortly  
17 before the Company filed its July 3, 2003, rate increase application with the Commission.  
18 The rate analysis was part of a packet of information that was provided to the customers  
19 taking part in the meeting.

20 Q. Does this conclude your rebuttal testimony?

21 A. Yes.



Company	Residential Revenues	Kwh Sales	Cost Per Kwh
<b>2002</b>			
Aquila, Inc./Dba Aquila Networks - MPS	\$ 163,053,788	2,335,239,000	\$ 0.069823
Aquila, Inc./Dba Aquila Networks - L&P	\$ 40,706,093	706,626,000	\$ 0.057606
Empire District Electric Company	\$ 126,088,402	1,726,449,000	\$ 0.073033
Kansas City Power & Light Company	\$ 387,438,757	5,004,311,000	\$ 0.077421
Ameren UE (Union Electric)	\$ 976,170,073	13,549,300,000	\$ 0.072046
<b>2001</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 153,831,575	2,182,523,000	\$ 0.070483
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 38,439,706	670,640,000	\$ 0.057318
Empire District Electric Company	\$ 110,584,151	1,681,085,000	\$ 0.065781
Kansas City Power & Light Company	\$ 348,769,921	4,728,840,000	\$ 0.073754
Ameren UE (Union Electric)	\$ 908,846,345	12,643,689,000	\$ 0.071881
<b>2000</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 153,643,417	2,139,885,000	\$ 0.071800
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 39,783,197	674,999,000	\$ 0.058938
Empire District Electric Company	\$ 108,571,833	1,660,928,000	\$ 0.065368
Kansas City Power & Light Company	\$ 352,095,387	4,725,323,000	\$ 0.074512
Ameren UE (Union Electric)	\$ 915,855,246	12,635,182,000	\$ 0.072485
<b>1999</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 148,200,000	1,956,800,000	\$ 0.075736
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 37,599,754	623,667,000	\$ 0.060288
Empire District Electric Company	\$ 98,786,901	1,509,175,836	\$ 0.065458
Kansas City Power & Light Company	\$ 324,091,447	4,287,963,454	\$ 0.075582
Ameren UE (Union Electric)	\$ 871,212,000	11,872,621,000	\$ 0.073380
<b>1998</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 154,400,000	2,000,398,000	\$ 0.077185
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 38,484,479	634,165,000	\$ 0.060685
Empire District Electric Company	\$ 100,566,576	1,548,629,943	\$ 0.064939
Kansas City Power & Light Company	\$ 334,228,069	4,413,732,000	\$ 0.075725
Ameren UE (Union Electric)	\$ 865,106,285	12,204,716,041	\$ 0.070883
<b>1997</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 147,599,000	1,833,799,000	\$ 0.080488
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 37,065,955	621,432,000	\$ 0.059646
Empire District Electric Company	\$ 88,635,799	1,429,787,422	\$ 0.061992
Kansas City Power & Light Company	\$ 315,240,379	4,087,617,976	\$ 0.077121
Ameren UE (Union Electric)	\$ 834,618,100	11,499,116,181	\$ 0.072581
<b>1996</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 142,597,000	1,770,725,000	\$ 0.080530
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 36,428,419	611,911,000	\$ 0.059532
Empire District Electric Company	\$ 86,014,341	1,440,512,033	\$ 0.059711
Kansas City Power & Light Company	\$ 306,340,000	3,906,196,000	\$ 0.078424
Ameren UE (Union Electric)	\$ 840,459,425	11,549,256,528	\$ 0.072772
<b>1995</b>			
UtiliCorp United, Inc./(Missouri Public Service Div.)	\$ 138,622,965	1,689,696,000	\$ 0.082040
UtiliCorp United, Inc./(St. Joseph Power & Light Div.)	\$ 36,001,141	593,881,000	\$ 0.060620
Empire District Electric Company	\$ 81,331,054	1,350,339,907	\$ 0.060230
Kansas City Power & Light Company	\$ 306,171,000	3,879,975,000	\$ 0.078911
Ameren UE (Union Electric)	\$ 843,037,511	11,229,011,259	\$ 0.075077

Source: 1995 Thru 1999 Taken from Rebuttal Testimony filed in EM-2000-369, By Phillip K. Williams  
2000 Data taken from the Annual Reports  
Pages 300 and 301

Missour LDC Rate Comparison

Electric

July, 2002 & January, 2003 Analysis

<u>Residential</u>		<u>Aquila/MPS</u>	<u>Aquila/L&amp;P</u>	<u>Empire</u>	<u>KCP&amp;L-MO</u>	<u>UE</u>
Summer @ 1000Kwh	July, 02	\$ 76.74	\$ 69.59	\$ 81.42	\$ 80.11	\$ 88.55
Winter @ 750 Kwh	Jan., 03	\$ 55.33	\$ 46.84	\$ 58.67	\$ 52.04	\$ 49.33
Annual Bills (1)		\$ 771.01	\$ 675.83	\$ 817.79	\$ 764.83	\$ 788.06
Annual Kwh		10,000	10,000	10,000	10,000	10,000
Annual Avg. \$/Kwh		\$ 0.0771	\$ 0.0676	\$ 0.0818	\$ 0.0765	\$ 0.0788
<u>Commercial</u>						
Winter 40KW / 14,000 Kwh		\$ 672	\$ 571	\$ 829	\$ 804	\$ 815
Summer 40 KW / 14,000 Kwh		\$ 935	\$ 770	\$ 1,178	\$ 994	\$ 1,126
Annual Bills (1)		\$ 9,379.00	\$ 7,847.00	\$ 11,693.00	\$ 10,598.00	\$ 11,335.00
Annual Kwh		150,000	150,000	150,000	150,000	150,000
Annual Avg. \$/Kwh		\$ 0.0625	\$ 0.0523	\$ 0.0780	\$ 0.0707	\$ 0.0756
<u>Industrial</u>						
Winter 1000KW / 400000 Kwh		\$ 14,128	\$ 14,155	\$ 19,155	\$ 20,026	\$ 16,265
Summer 1000 KW / 400000 Kwh		\$ 21,612	\$ 20,201	\$ 25,393	\$ 24,049	\$ 27,515
Annual Bills (1)		\$ 206,956	\$ 200,090	\$ 261,050	\$ 260,427	\$ 251,430
Annual Kwh		4,800,000	4,800,000	4,800,000	4,800,000	4,800,000
Annual Avg. \$/Kwh		\$ 0.0431	\$ 0.0417	\$ 0.0544	\$ 0.0543	\$ 0.0524

(1) Annual bills are calculated by pricing the monthly usage by the base rate effective at the date of this schedule, and includes 12-months of customer charges. Summer Rate were July 1, 2002 Winter rates were as of Jan. 1, 2003. This analysis uses 5 months summer rate and 7 months winter rate

(2) Source Documet: Typical Bills and Average Rates Report by Edison Electric Institute

Missouri LDC Rate Comparison

**Electric**

**July, 2002 & January, 2003 Analysis**

		<b>Aquila/MPS</b>	<b>Aquila/L&amp;P</b>	<b>Empire</b>	<b>KCP&amp;L-MO</b>	<b>UE</b>
<b>Residential</b>						
Summer @ 1000Kwh	July, 02	\$ 76.74	\$ 69.59	\$ 81.42	\$ 80.11	\$ 88.55
Winter @ 750 Kwh	Jan., 03	\$ 55.33	\$ 46.84	\$ 58.67	\$ 52.04	\$ 49.33
Annual Bills (1)		\$ 749.60	\$ 653.08	\$ 795.04	\$ 736.76	\$ 748.84
Annual Kwh		10,000	10,000	10,000	10,000	10,000
Annual Avg. \$/Kwh		\$ 0.0750	\$ 0.0653	\$ 0.0795	\$ 0.0737	\$ 0.0749
<b>Commercial</b>						
Winter 40KW / 14,000 Kwh		\$ 672	\$ 571	\$ 829	\$ 804	\$ 815
Summer 40 KW / 14,000 Kwh		\$ 935	\$ 770	\$ 1,178	\$ 994	\$ 1,126
Annual Bills (1)		\$ 9,116.00	\$ 7,648.00	\$ 11,344.00	\$ 10,408.00	\$ 11,024.00
Annual Kwh		150,000	150,000	150,000	150,000	150,000
Annual Avg. \$/Kwh		\$ 0.0608	\$ 0.0510	\$ 0.0756	\$ 0.0694	\$ 0.0735
<b>Industrial</b>						
Winter 1000KW / 400000 Kwh		\$ 14,128	\$ 14,155	\$ 19,155	\$ 20,026	\$ 16,265
Summer 1000 KW / 400000 Kwh		\$ 21,612	\$ 20,201	\$ 25,393	\$ 24,049	\$ 27,515
Annual Bills (1)		\$ 199,472	\$ 194,044	\$ 254,812	\$ 256,404	\$ 240,180
Annual Kwh		4,800,000	4,800,000	4,800,000	4,800,000	4,800,000
Annual Avg. \$/Kwh		\$ 0.0416	\$ 0.0404	\$ 0.0531	\$ 0.0534	\$ 0.0500

(1) Annual bills are calculated by pricing the monthly usage by the base rate effective at the date of this schedule, and includes 12-months of customer charges. Summer Rate were July 1, 2002. Winter rates were as of Jan. 1, 2003. This analysis uses 4 months summer rate and 8 months winter rate.

(2) Source Documet: Typical Bills and Average Rates Report by Edison Electric Institute.



Aquila

# **Aquila Update Missouri Community Meeting Discussion Document**

**Rick Green**

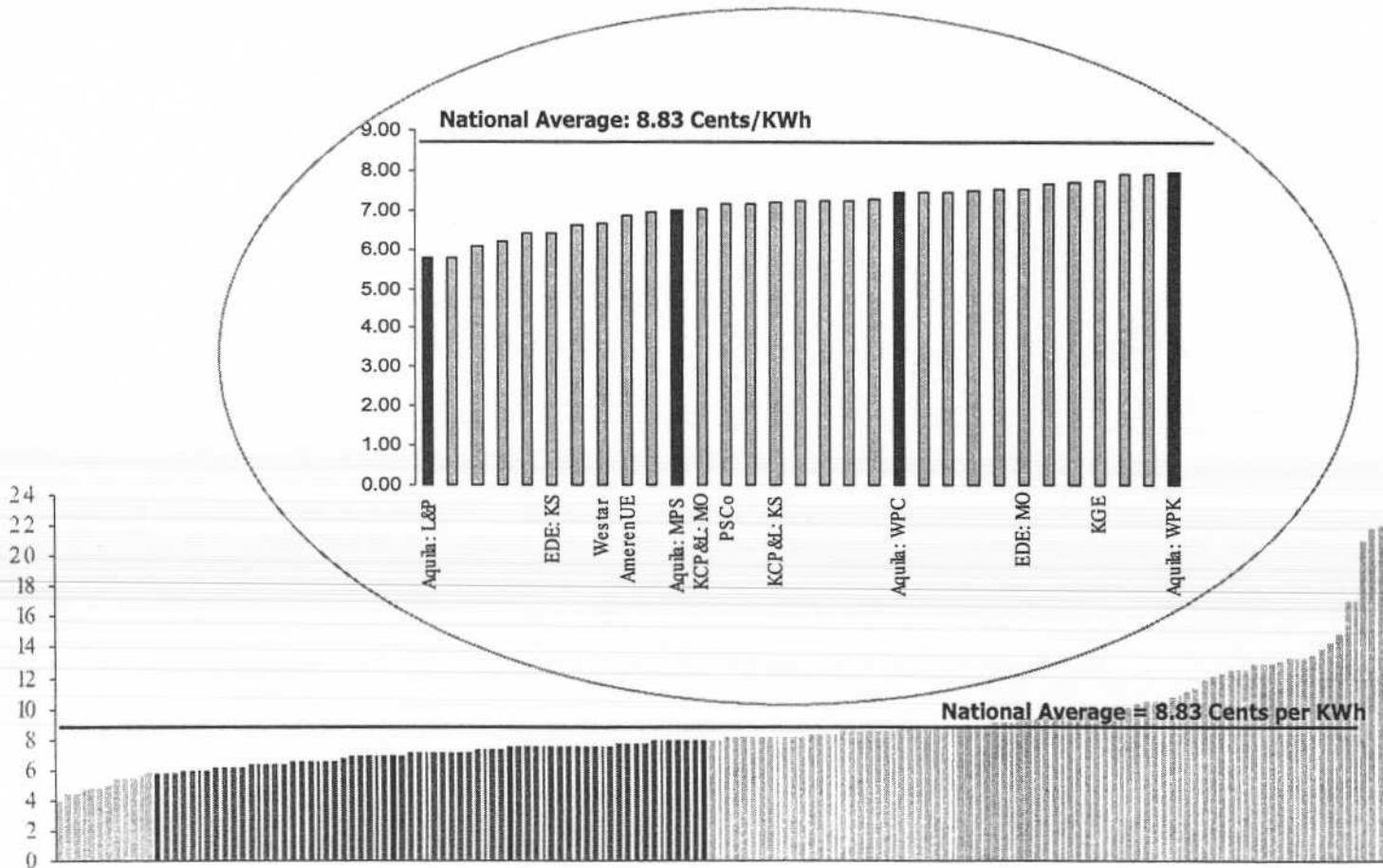
*Chief Executive Officer*

**Missouri Public Service**

**June 26, 2003**



# Aquila Current Rate Comparison





# Aquila Rate Comparison After Proposed Increase

