Exhibit No .:

Issues: Class Cost of

Service and Rate Design

Witness: James C. Watkins

Sponsoring Party: MoPSC Staff
Type of Exhibit: Direct Testimony

Case No.: ER-2005-0436

Date Testimony Prepared: October 28, 2005

# MISSOURI PUBLIC SERVICE COMMISSION UTILITY OPERATIONS DIVISION

DIRECT TESTIMONY

OF

JAMES C. WATKINS

FILED<sup>2</sup> FEB 2 4 2006

Service Commission

AQUILA, INC.

CASE NO. ER-2005-0436

Jefferson City, Missouri October, 2005

### BEFORE THE PUBLIC SERVICE COMMISSION

#### OF THE STATE OF MISSOURI

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3	JAMES C. WATKINS		
4		AQUILA, INC.	
5		CASE NO. ER-2005-0436	
6	Q.	Please state your name and business address.	
7	A.	My name is James C. Watkins and my business address is Missouri Public	
8	Service Commission, 200 Madison Street, P. O. Box 360, Jefferson City, Missouri		
9	65102.		
10	Q.	Who is your employer and what is your present position?	
11	A.	I am employed by the Missouri Public Service Commission (Commission)	
12	and my title is Manager, Economic Analysis, Energy Department, Operations Division.		
13	Q.	Please review your educational background and work experience.	
14	A.	I have a Bachelor of Arts Degree in Economics from William Jewell	
15	College, a year of graduate study at the University of California at Los Angeles in the		
16	Masters Degree Program, and have completed all requirements except my dissertation for		
17	a Ph.D. in Economics from the University of Missouri-Columbia. My previous work		
18	experience has been as an Instructor of Economics at Columbia College, the University		
19	of Missouri-Rolla, and William Jewell College. I have been on the Staff of the Missouri		
20	Public Service Commission (Staff) since August 1, 1982. A list of the major cases in		
21	which I have filed testimony before the Commission is shown on Schodule 1		

A.

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A.

- 1
- Q. What has been your role for the Staff in this case?

I am a case coordinator. In that role I have coordinated the efforts of the

I provide a brief overview of the Staff's examination of Aquila's updated

Staff in the Operations Division with those of the Staff in the Services Division in

developing the Staff's cost of service recommendation (i.e., revenue requirement). As

Manager, Economic Analysis, I have day-to-day overseen and directed the activities of

the Staff assigned to work on the class cost of service and rate design matters in this case.

I am also responsible for conveying to the Commission the Staff's class cost of service

class cost of service for its two Missouri service areas, Aquila Networks-MPS and Aquila

Networks-L&P, which have differing customer rates. I also present the Staff's

recommendation regarding appropriate shifts in customer class revenue responsibility

based on the results of the Staff's class cost-of-service studies. The Staff is not

recommending any changes to Aquila's rate structures at this time. If changes are made

to Aquila's rate structures, the Staff is recommending the Commission make those

changes in Case No. EO-2002-384, Aquila's class cost of service and rate design case

What is the purpose of your direct testimony?

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**Overview And Recommendation** 

pending before the Commission.

and rate design recommendations in this case.

- 20 21
- Q. Please provide an overview of the Staff's examination of Aquila's class cost of service in this case.

## Direct Testimony of James C. Watkins

A. The Staff examined how changes in the distribution of costs and revenues since Aquila's last rate case have affected the class revenue shifts that would be required to align revenues with the cost of serving each customer class. That information from the last rate case was used in Case No. EO-2002-384. Staff witness James Busch updated the Staff's class cost-of-service study filed in Case No. EO-2002-384 to reflect the effects of changes in the distribution of costs and revenues using the same allocation factors that were used in Case No. EO-2002-384.

The results of the class cost-of-services studies the Staff filed in this case are quite different from the results of the class cost-of-services studies the Staff filed in Aquila's rate design case, Case No. EO-2002-384. The Staff has not yet been able to determine the cause of these differences. If they are primarily due to fluctuations in the prices of fuel and purchased power, the Staff recommends that no shifts in class revenues be made at this time. If they are due to some permanent change in Aquila's cost structure, then the Commission should: (1) determine the appropriate allocation factors to be used in a class cost-of-service study in Aquila's rate design case; (2) determine the appropriate cost structure and level of costs in this case; then (3) require the Staff to file, for the Commission's consideration, a class cost-of-service scenario based on those determinations.

The Staff anticipates that any rate changes the Commission approves in this case will implement both any overall revenue increase and any shifts in class revenues that it approves. The Commission should consider the overall impact on individual customers in each service area from both rate changes.

# Direct Testimony of James C. Watkins

#### **Class Cost of Service**

- Q. Did the Staff perform customer class cost-of-service studies in this case?
- A. Yes. Staff witness James Busch presents them in his direct testimony.
- Q. What is a cost-of-service study?

A. The Staff's class cost-of-service study is a mathematically-based method of assigning costs to customer classes using the best available data and methods. It can be directly compared to other such studies in terms of its quality of analysis; however, when setting rates, its underlying assumptions should be critically considered. A cost-of-service study is not "the answer," it is just one important piece of information to consider when setting rates.

For the most part, an electric utility's costs are what economists refer to as "joint costs." These costs are incurred to serve a group of customers rather than each individual customer separately. A cost-of-service study should use a "reasonable" method of allocating joint costs among customer classes based on usage characteristics, on the assumption that these costs are generally related to those usage characteristics, not that they are actually caused directly by the usage of any one customer. There is no single "right" answer. There are only answers that are reasonable and answers that are not. The Staff believes that it has used reasonable methods for allocating costs in its study, in particular its "time-of-use" method for allocating generation and transmission costs.

Q. How do the results of the Staff's class cost-of-service studies filed in this case differ from the results of the Staff's class cost-of-service studies filed in Aquila's rate design case, Case No. EO-2002-384?

# Direct Testimony of James C. Watkins

A. Mr. Bush presents those differences in his direct testimony; however, the most glaring differences are that for some classes the signs have changed on the percentage increases to revenues required to equal cost of service. For example, L&P's Large Power Service (LPS) class requires a 4.99% increase in rates based on the distribution of costs and revenues from Aquila's last rate case, but requires a 1.78 % decrease in rates based on the distribution of costs and revenues determined to be appropriate by the Staff in this case. Likewise, MPS's Residential (RES) class requires a 3.06% increase in rates based on the distribution of costs and revenues from Aquila's last rate case, but requires a 1.61 % decrease in rates based on the distribution of costs and revenues determined to be appropriate by the Staff in this case and MPS's Small General Service (SGS) class requires a 4.04% decrease in rates based on the distribution of costs and revenues from Aquila's last rate case, but requires a 1.42 % increase in rates based on the distribution of costs and revenues from Aquila's last rate case, but requires a 1.42 % increase in rates based on the distribution of costs and revenues determined to be appropriate by the Staff in this case.

- Q. Do you have any further testimony at this time?
- A. No.

### **CASE LIST**

1	The Francisco District Division Co.	
1. 2.	The Empire District Electric Company	Case No. ER-83-42
	Kansas City Power & Light Company	Case No. ER-83-49
3.	Union Electric Company	Case No. ER-83-163
4.		Case No. ER-83-206
5.	The Empire District Electric Company	Case No. ER-83-364
6.		Case No. EO-84-4
	Union Electric Company	Case No. EO-85-17
8.		Case No. ER-85-20
	Arkansas Power & Light Company	Case No. EO-85-146
10	. Union Electric Company	Case No. ER-85-160
11.	Kansas City Power & Light Company	Case Nos. ER-85-128 & EO-85-185
	Arkansas Power & Light Company	Case Nos. ER-85-265 & ER-86-4
	. Union Electric Company	Case Nos. EC-87-114 & EC-87-115
14	St. Joseph Light & Power Company	Case No. HR-88-116
	Union Electric Company	Case No. EO-87-175
	Missouri Public Service	Case No. ER-90-101
17.	The Empire District Electric Company	Case No. ER-90-138
18.	Kansas City Power & Light Company	Case No. EM-91-16
19.	St. Joseph Light & Power Company	Case No. EO-88-158
20.	The Empire District Electric Company	Case No. EO-91-74
	Missouri Public Service	Case No. EO-91-245
	Missouri Public Service	Case No. EO-93-37
23.	St. Joseph Light & Power Company	Case No. ER-93-41
24.	St. Joseph Light & Power Company	Case No. EO-93-351
25.	St. Joseph Light & Power Company	Case No. ER-94-163
26.	The Empire District Electric Company	Case No. ER-94-117
	Citizens' Electric Corporation	Case No. ER-97-286
28.	The Empire District Electric Company	Case No. ER-97-81
29.	The Empire District Electric Company	Case No. ER-97-491
30.	Missouri Public Service	Case Nos. ER-97-394 & ET-98-103
31.	St. Joseph Light & Power Company	Case Nos. EC-98-573 & ER-99-247
32.	Citizens' Electric Corporation	Case No. ET-99-113
	Union Electric Company	Case No. EO-96-15
34.	Union Electric Company	Case No. EO-2000-580
	The Empire District Electric Company	Case No. ER-2001-299
	Missouri Public Service	Case No. ER-2001-672 & EC-2002-265
	Union Electric Company	Case No. EC-2002-1
	Citizens' Electric Corporation	Case No. ER-2002-217
	The Empire District Electric Company	Case No. ER-2001-1074 (ER-2001-425)
	The Empire District Electric Company	Case No. ER-2002-424
	Aquila, Inc. (MPS & L&P)	Case Nos.ER-2004-0034 & HR-2004-0024
42.	The Empire District Electric Company	Case No. ER-2004-0057 & TR-2004-0024
43.	Union Electric Company	Case No. EA-2005-0180
44.	Aquila, Inc.	Case No. EO-2002-384
	, , —	CMD6 140. EO-2002-307