

Exhibit No.:

Issues: Resource Planning

Witness: Lena M. Mantle

Sponsoring Party: MO PSC Staff

Type of Exhibit: Direct Testimony

Case No.: ER-2005-0436

Date Testimony Prepared: October 14, 2005

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY OPERATIONS DIVISION**

**DIRECT TESTIMONY**

**OF**

**LENA M. MANTLE**

**AQUILA, INC.**

**D/B/A AQUILA NETWORKS – MPS**

**And AQUILA NETWORKS – L&P**

**CASE NO. ER-2005-0436**

**Jefferson City, Missouri**

**October 2005**

**\*\*Denotes Highly Confidential Information\*\***

**FILED**

**FEB 24 2006**

**Missouri Public  
Service Commission**

**NP**

Exhibit No. 55 NP  
Case No(s) ER-2005-0436  
Date 1-09-06 Rptr XF

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

In the Matter of Aquila, Inc. d/b/a Aquila )  
Networks-MPS and Aquila Networks- )  
L&P, for Authority to File Increasing )  
Electric Rates For the Service Provided to )  
Customers in the Aquila Networks-MPS )  
and Aquila Networks-L&P Area.

Case No. ER-2005-0436

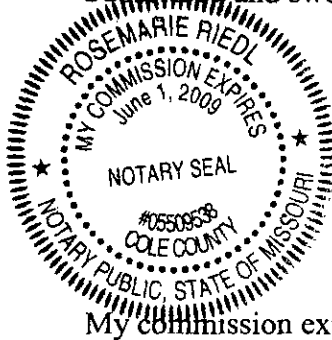
**AFFIDAVIT OF LENA M. MANTLE**

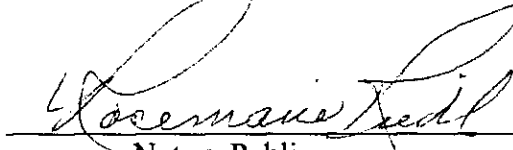
**STATE OF MISSOURI**     )  
                                      ) ss  
**COUNTY OF COLE**     )

Lena M. Mantle, of lawful age, on her oath states: that she has participated in the preparation of the following Direct Testimony in question and answer form, consisting of 7 pages of Direct Testimony to be presented in the above case, that the answers in the following Direct Testimony were given by her; that she has knowledge of the matters set forth in such answers; and that such matters are true to the best of her knowledge and belief.

  
Lena M. Mantle

Subscribed and sworn to before me this 13<sup>th</sup> day of October, 2005.



  
Notary Public

My commission expires June 1, 2009

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Lena M. Mantle

1 of all of the utility filings under that rule. Since the Commission issued a waiver to the  
2 electric utilities from filing under that rule in 1999, I have been present at all but one of  
3 the utilities' semi-annual resource plan update meetings with Staff and Office of Public  
4 Counsel.

5 Q. Have you previously filed testimony before this Commission?

6 A. Yes, I have. Please see Schedule 1 attached to this testimony for a list of  
7 cases in which I have previously filed testimony.

8 Q. What is the purpose of your direct testimony?

9 A. The purpose of my testimony is to provide to the Commission a summary  
10 of the resource planning review process and the feedback that the Staff has supplied  
11 Aquila in the last three years. I am also presenting Staff's position regarding how Aquila  
12 should have replaced the power it was receiving from the Aries capacity contract.

13 **Executive Summary**

14 Q. Would you please summarize your testimony?

15 A. It is my testimony that, given the information from the resource planning  
16 process that was available at the time Aquila made its decision regarding the replacement  
17 of power it was obtaining through the Aries capacity contract, it is the position of the  
18 Staff that Aquila should have built five combustion turbines (CTs). Therefore, the Staff  
19 included five CTs to satisfy Aquila's capacity needs in this rate case to approximate a  
20 self-build option for Aquila Networks – MPS (MPS). Staff witness David W. Elliott is  
21 using five generic CTs in addition to MPS's current capacity in rate base in the  
22 production cost model to estimate variable fuel and purchase power costs and Staff  
23 witness Robert Schallenberg is sponsoring adjustments to the capacity costs to this effect.

**Testimony**

Q. What capacity does Aquila currently have instead of the five generic CTs in Staff's case?

A. Aquila has included the three combustion turbines at the South Harper site. Due to legal issues, it is not clear that these CTs will remain at this site. Aquila is currently searching for purchase power contracts, long or short-term, to fulfill the rest of its capacity and energy needs.

Q. What was the resource planning review process when Aquila made its decision to build the only three CTs and rely on purchase power contracts for the rest of its capacity and energy needs?

A. At the time, Aquila was meeting with the Staff and Office of Public Counsel twice a year to update us on its resource needs. The only information given to Staff at these meetings was the presentation material. Staff would provide feedback based on the presentation materials and statements made during the presentations. The Staff did not do a formal or informal review of the resource plan updates presented at the meetings. Sometimes, if the Staff felt that it was warranted, it would respond after the meeting with a letter expressing concerns.

This process is changing as the waiver is ending in December of this year. Aquila submitted a resource plan to Staff in April 2005 and is scheduled to file its resource plan in February 2007. It has made a verbal commitment to Staff to continue the semi-annual meetings until that time.

Q. Why does Aquila need capacity?

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1           A.     Aquila needs capacity to replace the purchase power agreement (PPA) that  
2 it had for the Aries power plant to supply up to 500 megawatts (MW) of capacity in the  
3 summer and 320 MW of capacity in the winter. This PPA expired May 31, 2005. MPS  
4 satisfied this deficit in 2005 with the three CTs at South Harper and a short-term capacity  
5 purchase of 325 MW from a facility owned by another Aquila division in Mississippi  
6 called Crossroads. This agreement has also already expired.

7           In addition to the need to replace power it was obtaining through the Aries PPA,  
8 Aquila also needs capacity to meet growth in its customers' electrical needs.

9           Q.     What process did Aquila use to determine how to replace the Aries PPA  
10 capacity and energy?

11          A.     Aquila issued a Request for Proposals (RFP) in 2001 to get bids for  
12 capacity to replace the Aries contract. While it was analyzing the bids the market  
13 changed drastically. After discussions with the Staff, Aquila reissued the RFP in 2003.  
14 Reissuing the RFP reduced the time available to Aquila to pursue different options but,  
15 given the market changes, both Aquila and Staff felt that doing so was appropriate to get  
16 the most reliable and least cost power for Aquila's customers.

17          A.     What was the result of the analysis of this RFP?

18          Q.     The first time Staff was shown any results from this RFP was in the  
19 Aquila semi-annual resource plan meeting with Staff on June 26, 2003. Aquila told us  
20 that an "undisclosed" bidder had offered it an excellent bid for 600 MW but it could not  
21 tell us much about the bid at that time. Because this would be more than enough to cover  
22 its needs, Aquila felt that no other capacity was needed. Staff later learned from Aquila  
23 that this bid fell through.

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1           On January 27, 2004, Aquila again met with Staff, this time not in a resource  
2 planning meeting, but in a meeting to let Staff know about its power supply acquisition  
3 process for the next five years. In this meeting, Aquila's preferred/proposed resource  
4 plan over the short term was to build three combustion turbines and to enter into three-to-  
5 five year PPAs based off of the bids to the 2003 RFP.

6           Q.     How did Staff respond to this?

7           A.     Three days later on January 30, 2004, Staff responded with a letter to Mr.  
8 Dennis Williams of Aquila, expressing concern regarding Aquila's short-sightedness  
9 (three-to-five year plan), the Staff's belief that Aquila needed to be looking at base-load  
10 generation and the Staff's concern that Aquila should not become overly dependent upon  
11 PPAs.

12          Q.     When did Aquila disclose its long range plan to Staff after it received the  
13 Staff's letter?

14          A.     Aquila met with Staff on February 9, 2004, for its semi-annual resource  
15 update. This update, which took into consideration events over a twenty year time  
16 horizon, showed that \*\* \_\_\_\_\_  
17 \_\_\_\_\_  
18 \_\_\_\_\_  
19 \_\_\_\_\_  
20 \_\_\_\_\_  
21 \_\_\_\_\_  
22 \_\_\_\_\_

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1           At the next semi-annual update on July 9, 2004, Aquila still showed that the

2       \*\* \_\_\_\_\_

3       \*\* Aquila had found a very good 75 MW PPA with Nebraska Public Power  
4       District (NPPD), but it was still pursuing the other PPAs upon which it had received bids.

5           At subsequent resource planning update meetings Aquila has provided updates on  
6       the \*\* \_\_\_\_\_

7       \_\_\_\_\_ \*\*

8           Q.     Does the Staff believe that Aquila should have chosen five CTs as its  
9       preferred plan because it is the least cost alternative?

10          A.     No, it does not. While cost should be a primary decision criterion, it  
11       should not be the only criteria that a utility should look at when choosing its preferred  
12       plan. While the electric utilities currently have a waiver from the Commission's resource  
13       planning rules in Chapter 22, the Staff still believes that the utilities should carefully do  
14       risk and contingency analysis of their resource plans and choose a resource plan that is  
15       robust across many scenarios involving possible future events. The Staff believes that  
16       prudently building and owning generation, whether it is baseload, intermediate or  
17       peaking, provides stability for Missouri consumers. PPAs are useful tools, but in the  
18       current environment they should not be relied upon as long-term solutions to capacity  
19       needs in the planning process without a firm long-term contract in hand. \*\* \_\_\_\_\_

20       \_\_\_\_\_

21       \_\_\_\_\_

22       \_\_\_\_\_

23       \_\_\_\_\_

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1                   \*\* Instead of relying on short-term PPAs, Aquila could have had five CTs  
2 built by 2005 and available to serve its customers for the next thirty years.

3           Q.     In light of current natural gas prices, are you concerned about  
4 recommending Aquila install more gas-fired generation capacity?

5           A.     A prudence review entails looking at the factors relevant to a decision as  
6 they were at the time the decision was made. Therefore, I must go back to the time when  
7 Aquila made the recommendation and consider the gas prices and gas price projections  
8 that existed at that point in time, not the current time and current gas prices. Given the  
9 gas prices in 2003 and the information that Aquila has supplied the Staff, the appropriate  
10 decision would have been to build five CTs or the equivalent of 500 MW of capacity. To  
11 answer this question with today's gas prices and purchase power market, a new MIDAS  
12 model analysis would have to be run. Staff does not have the capability to run a MIDAS  
13 analysis independent of the utility.

14           Q.     Does this conclude your direct testimony?

15           A.     Yes, it does.

**PREVIOUS TESTIMONY OF  
LENA M. MANTLE**

<b>CASE NUMBER</b>	<b>TYPE OF TESTIMONY</b>	<b>ISSUES</b>
ER-84-105	Direct	Demand-Side Update
ER-85-20	Direct	Demand-Side Update
ER-85-128, et. al	Direct	PURPA Standards
EC-87-114, et. al.	Surrebuttal	Annualization & Normalization of Sales
EO-90-101	Direct, Rebuttal, and Surrebuttal	Weather Normalization of Sales Normalization of Net System
ER-90-138	Direct	Normalization of Net System
EO-90-251	Rebuttal	Promotional Practice Variance
EO-91-74, et. al.	Direct	Weather Normalization of Class Sales Normalization of Net System
ER-93-37	Direct	Weather Normalization of Class Loads Normalization of Net System
ER-94-163	Direct	Normalization of Net System
ER-94-174	Direct	Weather Normalization of Class Sales Normalization Net System
EO-94-199	Direct	Weather Normalization of Sales
ET-95-209	Rebuttal and Surrebuttal	New Construction Pilot
ER-95-279	Direct	Normalization of Net System
ER-97-81	Direct	Weather Normalization of Class Hourly Loads, TES Tariff, Normalization of Net System

**PREVIOUS TESTIMONY  
OF LENA M. MANTLE (cont.)**

<b>CASE NUMBER</b>	<b>TYPE OF TESTIMONY</b>	<b>ISSUES</b>
EO-97-144	Direct	Weather Normalization of Class Loads Normalization of Net System
ER-97-394, et. al.	Direct, Rebuttal and Surrebuttal	Weather Normalization of Class Loads Normalization of Net System Energy Audit Tariff
EM-97-575	Direct	Normalization of Net System
EM-2000-292	Direct	Normalization of Net System Load Research
ER-2001-299	Direct	Weather Normalization of Class Loads Normalization of Net System
EM-2000-369	Direct	Load Research
ER-2002-1	Direct	Weather Normalization of Class Loads Normalization of Net System
ER-2001-672	Direct and Rebuttal	Weather Normalization of Class Loads Normalization of Net System
EC-2002-1	Direct Rebuttal	Weather Normalization of Class Loads Normalization of Net System
ER-2002-424	Direct	Calculation of Normal Weather
EF-2003-0465	Rebuttal	Resource Plans