

Exhibit No.:

Issues: Weather  
Normalization

Witness: Shawn E. Lange

Sponsoring Party: MO PSC Staff

Type of Exhibit: Surrebuttal Testimony

Case No.: ER-2005-0436

Date Testimony Prepared: December 8, 2005

**MISSOURI PUBLIC SERVICE COMMISSION**

**UTILITY OPERATIONS DIVISION**

**SURREBUTTAL TESTIMONY**

**OF**

**SHAWN E. LANGE**

**FILED**

FEB 24 2006

Missouri Public  
Service Commission

**AQUILA, INC.  
D/B/A AQUILA NETWORKS – MPS  
AND AQUILA NETWORKS – L&P**

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

**Jefferson City, Missouri  
December 2005**

Exhibit No. 53

Case No(s). ER-2005-0436

Date 1-09-06 Rptr XX

**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

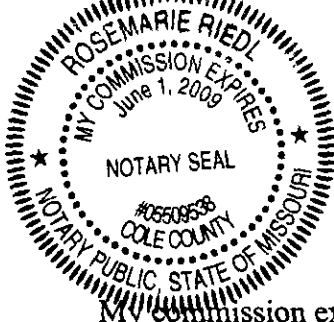
**AFFIDAVIT OF SHAWN E. LANGE**

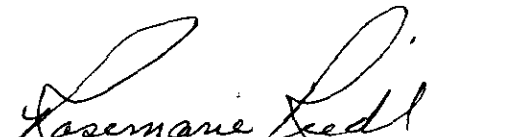
STATE OF MISSOURI     )  
                                      ) ss  
COUNTY OF COLE     )

Shawn E. Lange, of lawful age, on his oath states: that he has participated in the preparation of the following Surrebuttal Testimony in question and answer form, consisting of 2 pages of Surrebuttal Testimony to be presented in the above case, that the answers in the following Surrebuttal Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true to the best of his knowledge and belief.

  
Shawn E. Lange

Subscribed and sworn to before me this 9<sup>th</sup> day of December, 2005.



  
Notary Public

My commission expires June 1, 2009

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Surrebuttal Testimony of  
Shawn E. Lange

1           Q.     Which staff witness's testimony relies on the updated normalized hourly  
2 net system loads?

3           A.     Staff witness David W. Elliott used these hourly loads in his fuel model to  
4 normalized fuel and purchase power expenses for the test year.

5           Q.     What is your recommendation to the Commission?

6           A.     I recommend that the Commission adopt the updated normalized hourly  
7 net system loads that I calculated. A monthly summary of the updated normalized net  
8 system load for MPS is on Schedule 1.

9           Q.     Does this conclude your Surrebuttal Testimony?

10          A.     Yes, it does.

Aquila Networks MPS  
Net System Load  
Normalized for 2004\*  
ER-2005-0436

Month	Monthly Usage (MWh)				Monthly Peaks (MW)				Load Factor	
	Actual	Normal	Adj	% Adj	Actual	Normal	Adj	% Adj	Actual	Normal
Jan-04	513,600	549,985	36,385	7.08%	951	912	(39)	-4.14%	0.73	0.81
Feb-04	461,895	465,485	3,590	0.78%	893	897	4	0.41%	0.74	0.75
Mar-04	427,767	437,651	9,884	2.31%	735	784	49	6.64%	0.78	0.75
Apr-04	387,999	376,927	(11,072)	-2.85%	689	655	(34)	-4.97%	0.78	0.80
May-04	468,836	430,453	(38,383)	-8.19%	1,064	885	(179)	-16.84%	0.59	0.65
Jun-04	497,124	535,505	38,381	7.72%	1,171	1,177	6	0.49%	0.59	0.63
Jul-04	581,011	722,440	141,429	24.34%	1,344	1,420	76	5.69%	0.58	0.68
Aug-04	545,734	622,286	76,552	14.03%	1,335	1,346	11	0.79%	0.55	0.62
Sep-04	491,001	480,082	(10,919)	-2.22%	1,133	1,055	(78)	-6.91%	0.60	0.63
Oct-04	409,677	408,517	(1,160)	-0.28%	727	708	(19)	-2.55%	0.76	0.78
Nov-04	425,352	440,275	14,923	3.51%	864	838	(26)	-2.97%	0.68	0.73
Dec-04	501,823	524,062	22,239	4.43%	957	940	(17)	-1.82%	0.70	0.75
Annual	5,711,819	5,993,669	281,850	4.93%	1,344	1,420	76	5.69%	0.49	0.48
Summer	2,114,870	2,360,314	245,444	11.61%	1,344	1,420	76	5.69%	0.54	0.57
Other	3,596,949	3,633,355	36,406	1.01%	1,064	940	(124)	-11.69%	0.58	0.66

\* Normalized for weather, growth, and large customers