Exhibit No.: Issues:

Witness: Sponsoring Party: Type of Exhibit: Case No.: Date Testimony Prepared: Normalization Shawn E. Lange MO PSC Staff

Weather

MO PSC Staff Surrebuttal Testimony ER-2005-0436 December 8, 2005

MISSOURI PUBLIC SERVICE COMMISSION

UTILITY OPERATIONS DIVISION

SURREBUTTAL TESTIMONY

OF

SHAWN E. LANGE

Missouri Public

FILED

FEB 2 4 2006

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.__ Case No(s). FR-200 Date - OS-Ob Rptr

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 $\underline{2}$ 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.

d and sworn to before me this $\underline{q}^{\mathcal{T}}$ day of December, 2005. Notary Public 1, 2009 ssion expires

1	SURREBUTTAL TESTIMONY									
2	OF									
3		SHAWN E. LANGE								
4 5 6 7		AQUILA, INC. D/B/A AQUILA NETWORKS – MPS AND AQUILA NETWORKS – L&P CASE NO. ER-2005-0436								
8	Q.	Please state your name and business address.								
9	А.	My name is Shawn E. Lange and my business address is Missouri Public								
10	Service Commission, P.O. Box 360, Jefferson City, MO 65102.									
11	Q. Are you the same Shawn E. Lange that filed Direct and Rebutt									
12	Testimony in this proceeding?									
13	А.	Yes, I am.								
14	Q.	What is the purpose of your Surrebuttal Testimony?								
15	A.	The purpose of my Surrebuttal Testimony is to present the Staff's updated								
16	normalized h	normalized hourly net system loads for Aquila Networks-MPS (MPS).								
17	Q.	What changes have you made to update the hourly net system loads?								
18	А.	The computation of the hourly net system loads for MPS did not properly								
19	accounted fo	r sales to wholesale customers (municipalities). The updated loads add the								
20	hourly loads	of the wholesale customers to the previously determined hourly net system								
21	loads.									
22	Q.	What was the effect of this change?								
23	А.	The normalized hourly net system loads increased by 0.55% over the test								
24	year.									

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Surrebuttal Testimony of Shawn E. Lange

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

- A. Staff witness David W. Elliott used these hourly loads in his fuel model to
 normalized fuel and purchase power expenses for the test year.
 - 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.
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Q. Does this conclude your Surrebuttal Testimony?

A. Yes, it does.

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

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	Monthly Usage (MWh)				Monthly Peaks (MW)				Load Factor	
Month	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)	<u>-11.69%</u>	0.58	0.66

* Normalized for weather, growth, and large customers