Exhibit No.:

Issues: Revenue Normalization

Witness: Eric L. Watkins

Sponsoring Party: Aquila Networks-MPS

& L&P

Case No.: ER-

Before the Public Service Commission of the State of Missouri

FILED²

FEB 2 4 2006

Missouri Public Service Commission

Direct Testimony

of

Eric L. Watkins

Case No(s) PR-2005-0-36
Date 1-09-06 Rptr

TABLE OF CONTENTS

WEATHER NORMALIZATION OF CLASS SALES AND REVENUE	3
UNBILLLED SALES AND REVENUE ADJUSTMENT	5
LEAP YEAR ADJUSTMENT	6
CUSTOMER ANNUALIZATION ADJUSTMENT	6
LARGE CUSTOMER LOAD ADJUSTMENT	7
WEATHER NORMALIZATION OF SYSTEM HOURLY LOADS	8
RECOMMENDATION	

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI DIRECT TESTIMONY OF ERIC L. WATKINS ON BEHALF OF AQUILA, INC. D/B/A AQUILA NETWORKS-MPS AND AQUILA NETWORKS-L&P CASE NO. ER-_____

1	Q.	Please state your name and business address.
2	A.	My name is Eric L. Watkins and my business address is 10700 East 350 Highway,
3		Kansas City, MO, 64138 USA.
4	Q.	By whom are you employed and in what capacity?
5	A.	I am employed by Aquila, Inc. ("Aquila" or "Company") as the Vice President-
6		Commodity Risk Management reporting to the Chief Financial Officer of Aquila.
7	Q.	Please describe your responsibilities in that position.
8	A.	I am responsible for directing Aquila's risk pricing and structuring activities, middle
9		office controls, fundamental analysis, commodity market research, energy forecasting,
10		and weather normalization of sales, revenues, and system loads for regulatory cases.
11	Q.	Please describe your educational background.
12	A.	I hold a Bachelor of Science degree in Mathematics from the University of Arkansas,
13		and a Master of Business Administration degree in Finance from the University of
14		Missouri-Kansas City.
15	Q.	Please describe your professional work experience.
16	A.	I have been employed by Aquila since June 1991. My experiences since that time
17		have included duties for energy forecasting, weather normalization of sales and
18		revenue for regulatory cases, competitive and industry analysis for merger and
19		acquisition candidates and new business ventures, structure desk analysis, and

1		accounting and financial management. Before coming to Aquila Inc., I was employed
2		by Burns and McDonnell Engineers-Architects-Consultants from February 1988 to
3		May 1991.
4	Q.	What is the purpose of your direct testimony in this proceeding before the Missouri
5		Public Service Commission ("Commission")?
6	A.	The purpose of my direct testimony in this proceeding is to sponsor and recommend
7		that the Commission adopt the weather normalization adjustment to class sales and
8		revenue for Aquila Networks-MPS ("MPS") and Aquila Networks-L&P ("L&P)
9		shown on Schedules ELW-1 and ELW-2, the customer annualization adjustment
10		shown on Schedules ELW-3 and ELW-4, and the weather normalized system hourly
11		loads shown on Schedules ELW-5 and ELW-6. Aquila witness Jerry Boehm uses
12		these weather normalized system hourly loads in estimating normalized fuel and
13		purchase power costs.
14	Q.	Were these schedules prepared by you or under your direct supervision?
15	A.	Yes.
16	Q.	Do you have a recommendation for the Commission regarding weather normalization
17		of MPS and L&P sales and revenue, customer annualization adjustment, and system
18		hourly loads?
19	A.	I recommend that the Commission adopt the MPS and L&P weather normalized
20		revenue adjustment, unbilled revenue adjustment, leap year adjustment, customer
21		annualization adjustment, large customer load adjustment; as well as the weather
22		normalized system hourly loads, for the 2004 test year, which I am sponsoring in this
23		case.

1		WEATHER NORMALIZATION OF CLASS SALES AND REVENUE
2	Q.	Please provide a description of the methods and models used to calculate the weather
3		normalization adjustments to class kWh sales for MPS and L&P.
4	A.	Weather normalization adjusts the test year sales and revenue for the impact of
5		weather. Normal weather is based on daily temperatures over a 30-year historical
6		period (1971-2000). A set of statistical models were developed to calculate the
7		weather adjustments to weather sensitive rate class kWh sales for the test year ending
8		December 31, 2004.
9		The weather sensitive rate classes that were weather normalized are listed below.
10		For MPS:
11 12		Residential (MO860-General Service, MO870-Space Heat) Small General Service (Combined MO710-No Demand Meter and MO 711-
13 14 15 16		Secondary, MO716-Primary) Large General Service (MO720-Secondary, MO725-Primary) Large Power (MO730-Secondary, MO735-Primary) Schools & Churches (MO740-Secondary)
17 18		For L&P:
19 20 21 22 23 24		Residential (MO910,MO911,MO913,MO914,MO915,MO920,MO921,MO922) Small General Service (MO930,MO931,MO932,MO933,MO941) Large General Service (MO940) Large Power (MO944) Schools & Churches (934)
25 26		The Hourly Electric Load Model ("HELM") from Electric Power Research Institute
27		was used to weather normalize rate class sales, based on load research data for the test
28		year ending December 31, 2004. HELM optimizes weather response functions based
29		on daily load profiles by rate classes. The weather response functions are used in
20		HEI M's Billing Cycle Analysis tool to estimate kWh sales under predicted actual and

1		normal weather conditions for the test year by billing cycles for each rate class. Actual
2		and normal daily weather variables, based on 1971-2000 average daily temperature
3		(2-day rolling average) data for Kansas City, Missouri (MCI Airport), were used in
4		each rate class model to estimate kWh sales under predicted actual and normal
5		weather conditions. In order to compute the 2-day rolling average daily
6		temperatures, average daily normal temperatures for 1971-2000 were computed from
7		daily maximum and minimum temperatures, based on temperature data for MCI
8		Airport and a model developed by the Missouri Public Service Commission Staff.
9		The weather adjustment to kWh sales is calculated as the difference between
10		predicted normal minus predicted actual daily kWh sales.
1	Q.	Please describe the results of the weather normalization adjustment to kWh sales for
12		the test year ending December 31, 2004.
13	A.	Schedules ELW-1 and ELW-2 provide the weather normalization adjustment to kWh
14		sales for MPS and L&P, respectively. The total weather normalization adjustment
15		(normal - actual) for weather sensitive retail rate classes is 183,615 MWh for MPS,
16		and 50,920 MWh for L&P for the test year ending December 31, 2004.
17	Q.	Please describe the method for calculating the weather normalization adjustment to
18		revenue for weather sensitive rate classes.
19	A.	The method used for calculating the weather normalization adjustment for revenue for
20		the test year ending December 31, 2004 for each weather sensitive rate class, is based
21		on actual observed average rates by billing cycle for the test year. Actual average
22		rates, based on revenue associated with kWh usage excluding Interim Energy Charges
23		and Customer Charges, were multiplied by weather normalization adjustments

1 (normal – actual) kWh sales by billing cycle for each rate class that was weather normalized to compute weather adjustments to revenue. This method assumes that 2 weather normalization affects only the weather sensitive rate class sales, with no 3 effect from customer charges or other fixed charges. Interim Energy Charges were 4 excluded from the weather adjustment to revenue as described in direct testimony of 5 Aquila witness Susan Braun. Actual average rates were normalized for the full test 6 year 2004, considering the base rate increases for MPS and L&P which became 7 effective in April 2004. 8 Please describe the results of the weather normalization adjustment to revenue for the Q. 9 test year ending December 31, 2004. 10 Schedules ELW-1 and ELW-2 provide the weather normalization adjustment to 11 Α. revenue for MPS and L&P, respectively. The total weather normalization adjustment 12 to revenue for weather sensitive retail rate classes is \$12,447,463 for MPS, and 13 \$2,796,398 for L&P, as summarized in Schedule SKB-4 included with the direct 14 testimony of Aquila witness Susan Braun. 15 UNBILLED SALES AND REVENUE ADJUSTMENT 16 Please describe the unbilled sales and revenue adjustment for the test year ending Q. 17 December 31, 2004. 18 Schedules ELW-1 and ELW-2 provide the unbilled sales and revenue adjustment at 19 A. the bottom of the sales and revenue schedule for MPS and L&P, respectively. 20 Unbilled sales for the test year is the difference between calendar month weather 21 normalized sales and billing month weather normalized sales for the rate codes that 22 were weather normalized, as calculated in HELM's Billing Cycle Analysis. Unbilled 23

revenue for the test year is based on average rates for the rate codes that were weather 1 2 normalized, excluding IEC, customer charges and other fixed charges, multiplied by the monthly unbilled sales. The total 2004 test year unbilled revenue and kWh sales 3 adjustment is \$304,086 and (752) MWh for MPS, and \$(81,112) and (4,414) MWh 4 for L&P, as summarized in Schedule SKB-4 included with the direct testimony of 5 Aquila witness Susan Braun. 6 LEAP YEAR ADJUSTMENT 7 Please describe the leap year adjustment to sales and revenue for the test year ending 8 Q. December 31, 2004. 9 10 A. Schedules ELW-1 and ELW-2 provide the unbilled sales and revenue adjustment at the bottom of the sales and revenue schedules for MPS and L&P, respectively. The 11 12 leap year adjustment eliminates leap day (February 29) sales from the test year by 13 dividing the calendar month weather normalized sales by -1/366 in order to normalize leap day sales proportionately over the test year. The total 2004 test year leap day 14 adjustment is \$(764,577) to revenue and (14,591) MWh to sales for MPS, and 15 \$(204,778) to revenue and (5,053) MWh to sales for L&P, as summarized in 16 Schedule SKB-4 included with the direct testimony of Aquila witness Susan Braun. 17 CUSTOMER ANNUALIZATION ADJUSTMENT 18 19 Q. Please describe the method for calculating the customer normalization adjustment to revenue for weather sensitive rate classes for the test year ending December 31, 2004. 20 A customer annualization adjustment to the test year revenue is made to reflect 21 A. additional sales and revenue that are expected to occur because of projected growth in 22

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the number of customers at some future point in time. This method is simple and is

based on dividing the weather normalized test year rate class revenues by average customers, and then multiplying the result by the projected customers as of June 30, 2005 to obtain customer annualized revenues. Customers were projected to June 2005 based on growth from January to June 2004 in historical monthly customers by rate class, except those rate classes which had no significant observable growth which were assumed to remain at December 2004 customer levels or the average level for the test year. Actual customer levels by rate class at June 30, 2005 will be used when available to true up the customer annualization adjustment. The customer annualization adjustment is the difference between the test year weather normalized revenues and the customer annualized revenues projected at June 30, 2005 customer levels. Please describe the results of the customer annualization adjustment to revenue at Q. June 30, 2005. Schedules ELW-3 and ELW-4 provide the customer annualization adjustment to Α. revenue for MPS and L&P, respectively. The total customer annualization adjustment to revenue for weather sensitive retail rate classes is \$5,636,449 for MPS, and \$1,237,646 for L&P, based on projected customer levels at June 30, 2005, as summarized in Schedule SKB-4 included with the direct testimony of Aquila witness Susan Braun. LARGE CUSTOMER LOAD ADJUSTMENT Please describe the large customer load adjustment to sales and revenue for the test O.

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year ending December 31, 2004.

1	A.	Large customer load adjustments are shown at the bottom of schedules ELW-3 and
2		ELW-4 for MPS and L&P, respectively. A large customer adjustment for MPS of
3		17,520 MWh annualized sales and \$772,632 annualized revenue was made for a new
4		St. Luke's Hospital facility in Lee's Summit, MO expected to be constructed by June
5		2005. A large customer load adjustment for MPS was also made for miscellaneous
6		rate MO730 customers of 5,349 MWh annualized sales and \$253,203 annualized
7		revenue. A large customer adjustment for L&P of 8,760 MWh annualized sales and
8		\$317,236 annualized revenue was made for an Albaugh Chemical expansion in St.
9		Joseph, MO expected to be constructed by June 2005. A large customer adjustment
10		for L&P of 56,940 MWh annualized sales and \$2,062,037 annualized revenue was
11		also made for a Triumph Foods (pork processing) facility in St. Joseph, MO expected
12		to be constructed by June 2005.
13		Total large customer load adjustment to revenue for MPS is \$1,025,835, and
14		L&P is \$2,379,273, as summarized in Schedule SKB-4 included with the direct
15		testimony of Aquila witness Susan Braun.
16		WEATHER NORMALIZATION OF
17		SYSTEM HOURLY LOADS
18	Q.	Please describe the method and data sources used for weather normalizing system
19		hourly loads for MPS and L&P for the test year ending December 31, 2004.
20	A.	System hourly loads in kW represent the hourly electric demand requirements for
21		MPS and L&P electric customers, including transmission and distribution losses.
22		Actual system hourly loads for 2004 were weather normalized using HELM from
23		Flectric Power Research Institute with methods and data sources consistent with the

1		weather normalization of class sales, as previously described in my testimony.
2		Weather response functions for MPS and L&P were optimized in HELM using actual
3		daily weather variables (2-day average daily temperature) for MCI Airport (Kansas
4		City, MO). Based on these weather response functions, hourly loads were weather
5		normalized using 1971-2000 normal (2-day weighted) average daily temperatures,
6		consistent with the weather normalization of rate class sales, as previously described
7		in my testimony. MPS and L&P weather normalized hourly loads for 2004 were then
8		adjusted to reflect the change in level of test year sales due to the unbilled sales
9		adjustment, leap day adjustment, customer annualization adjustment, and large
10		customer load adjustment.
11	Q.	Please describe the results of the MPS and L&P weather normalized system hourly
12		loads for the test year ending December 31, 2004.
13	A.	Schedules ELW-5 and ELW-6 provide a summary of the 2004 weather normalized
14		system hourly loads for MPS and L&P, respectively.
15		The MPS weather normalized 2004 net energy for load is 5,984,353 MWh, as
16		adjusted, and the weather normalized peak demand is 1400 MW, as shown on line 38
17		of schedule ELW-5. The L&P weather normalized 2004 net energy for load is
18		2,086,643 MWh, as adjusted, and the weather normalized peak demand is 410 MW,
19		as shown on line 38 of schedule ELW-6. Weather normalized system hourly loads,
20		as adjusted for MPS and L&P, are used by Aquila witness Jerry Boehm for
21		normalizing fuel and purchased energy costs for the 2004 test year.
22		RECOMMENDATION

What is your recommendation to the Commission?

Q.

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Direct Testimony: Eric L. Watkins

- 1 A. My recommendation to the Commission is that it should adopt the MPS and L&P
- weather normalized revenue adjustment, unbilled revenue adjustment, leap year
- adjustment, customer annualization adjustment, and large customer load adjustment;
- as well as the weather normalized system hourly loads, for the 2004 test year, which I
- 5 am sponsoring in my direct testimony.
- 6 Q. Does this conclude your direct testimony?
- 7 A. Yes, it does.

	B LECTRIC	С 	0	E	F	Wes	ther Norma	i souri Public dization Adj iding 12/31/	ustment	K ivision	L		N ELW-1 Page 1 of 2	
	llied WN Adj.	MWh Sale	s Adjustma	nt (Norma	i - Actual))		····						
۳	Rate Class	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dac-04	_
	MQ860	4,073	(324)	1,359	1,643	(6,355)	1,210	34,199	36,066	23,041	(368)	1,664	3,384	
1	MO870	7,176	(694)	2,028	5,182	(527)	1,012	8,666	9,603	8,673	(849)	7,905	6,489	
	MO711	828	(254)	(63)	42	(2,063)	(507)	5,768	6,315	3,450	(516)	1,450	1,015	
	MO716 MO720	792	(0) (68)	295	(1) (44)	(3) (1,449)	45	5 3,320	5 3,430	1,863	(0) (111)	1 56	670	
	MO725	(8)	(2)	(14)	(27)	(53)	(4)	188	106	91	(2)	(45)	(4)	
	MO730	12	(40)	(46)	(358)	(936)	414	1,769	1,941	591	78	(777)	199	
	MO735	15	(24)	(9)	(416)	(1,129)	643	1,826	2,007	492	120	(723)	14	
	MQ740	104	(12)	26 (38	(72)	Q.	376	359	273	15	2	83	
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-	illed WN Adj.	12,992 (20,946)	(1,419) (42,412)	3,577 7,446	5,061 (17,150)	(12,566) 19,210	2,815 43,107	56,116 42,506	59,832 9,175	36,475	(1,633)	9,534	1 11,851	
	nbilled Adj. pap Year Adj.	(20,946)	(1,119)	(1,111)	(944)	(1,045)	43,107 (1,317)	(1,648)	(1,557)	(77,866) (1,205)	(17,158) (1,035)	20,557 (1,065)	32,777 (1,313)	
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FI	LECTRIC					Aquita Net	hvorks Mie	souri Public	Service Di	vision) ELW - 1	
E								lization Ad		*******			Page 2 of 2	
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Г	Rate Class	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	
	MO860	254,351	(20,455)	88,240	108,567	(409,864)	90,09B	2,561,096	2,700,248	1,719,810	(23,429)	110,170	206,293	
	MO870 MO711	321,221 38,654	(30,514) (11,817)	96,363 (3,006)	272,145 2,086	(28,865) (98,740)	75,760 (31,872)	650,734 359,899	720,847 398,506	499,568 217,341	(47,151) (23,902)	447,219 70,870	287,358 45,863	
ı	MO716	33	(14)	31	(25)	(137)	51	307	278	90	(5)	31	73	
ì	MO720	31,074	(2,646)	11,737	(1,773)	(56,115)	2,406	177,191	186,085	101,098	(4,309)	2,216	24,584	
2	MO725 MO730	(320) 376	(69) (1,253)	(571) (1,447)	(1,008) (11,172)	(1,924) (29,025)	(180) 16,392	9,790 71,915	5,608 77,805	5,002 23,831	(46) 2,430	(1,692) (24,171)	(145) 6,250	
il.	MO735	457	(746)	(271)	(12,765)	(34,378)	24,978	71,522	77,911	19,135	3,712	(21,984)	424	
1	MO740	5,510	(649)	1,433	2,215	(4,111)	12	28,850	27,567	20,998	819	100	4,413	
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	illed WN Adj.	651,356	(68,164)	192,508	358,270	(663,156)	177,645	3,931,305	4,194,855	2,606,873	(91,882)	582,758	1575,095	1
Ł	nbilled Adj.	(941,808)		337,765	(792,140)	898,457	2,637,423	2,671,911	578,695	(4,859,907)	(816,055)	981,979	1,478,635	
B	sap Year Adj.	(55,263)	(49,373)	(50,386)	(43,607)	(48,895)	(80,607)	(103,616)	(98,230)	(75,237)	(49,237)	(50,880)	(59,247)	_
2 B)				\$ 0.04536	S U.D4619	\$ 0.046//	\$ 0.06118	\$ 0.06288	\$ 0.06307	\$ 0.06241	\$ 0.04756	\$ 0.04777	\$ 0.04512 1	\$
2 B)	vg.RevKwh (\$)	\$ 0.04496	\$ 0.04412											
B U		\$ 0.04496	\$ 0.04412					souri Public						
Bi Ui A		\$ 0.04496	\$ 0.04412			Weather	Data at MC	l Airport, K	ansas City,					
B U		\$ 0.04496	\$ 0.04412			Weather	Data at MC		ansas City,					
BIULE A		\$ 0.04496	0.04412			Weather	Data at MC	l Airport, K	ansas City,					
B B U L A	vg.RevKwh (\$) DD65 (MCI):	Jan-04	Feb-04	Mar-04	Apr-04	Weather T May-04	Data at MC est Year En	I Airport, K iding 12/31/ Jul-04	enses City, 04 Aug-04	MO Sep-04	Oct-04	Nov-04		
	vg.RevKwh (\$) DD65 (MC!): ctual-Cal.Ma.	Jan-04 1,158	Feb-04	Mar-04 540	Apr-04 267	Weather T May-04	Data at MC est Year En Jun-04	Jul-04	anses City, 04 Aug-04	Sep-04	237	539	938	_
2 B U Le A	vg.RevKwh (\$) DD65 (MCI): ctual-Cel.Mo. ctual-2MoAvg.	Jan-04 1,158 1,064	Feb-04 980 1,069	Mar-04 540 760	Apr-04 267 404	Weather T May-04 85 176	Data at MC est Year En Jun-04 5 45	Jul-04	Aug-04	Sep-04	237 124	539 388	938 739	_
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Column C	MO934		ΞĒ		e 2	6 8		32	•	នុខ	9		7 8	130
Column C	MO941		€		-	6		6	•	9	ε		*	ਲ
(459) (10.329) (3.579) (4.429) (2.91) (4.22) (4.94) (4.94) (4.95) (4.94) (4.95)	MO944		98	Т	2,503	6,74		13.106	14,778	8.637	38	1	2 2 B	50.920
Page 2 of 2 Page 3 of 2 of 3 Page 3 of 3 o	nbilked Adj.	(8,564)	(10,339)	-	(4,491)		ľ	5,583	3,719	(16,193)	(2,663)	8,829	10,152	(4,414)
Name Comment Aqual Networks St. Joseph Light & Power Division Fage 2 of 2 Tast Year Ending 122/1164 St. Joseph Light & Power Division Fage 2 of 2 Tast Year Ending 122/1164 St. Joseph Light & Power Division Fage 2 of 2 Tast Year Ending 122/1164 St. Joseph Light & Power Division St. Joseph Light & St. Joseph Light & Power Division St. Joseph Light & St. Joseph Light & Power Division St. Joseph Light & St. Joseph Light & Power Division St. Joseph Light & St. Joseph Light & Power Division St. Joseph Light & St. Joseph Light & Power Division St. Joseph Light &														
Feerwind Adjustment (Normal - Actual)	LECTRIC					Aqudia Net Wea	works, St ther Norms	Joseph Lig dization Ad	ht & Power justment	Division			ELW - 2 Page 2 of 2	
Ference Colored May-Obj May-Obj May-Obj Jun-Obj Jun-Obj Jun-Obj Jun-Obj May-Obj May-Obj Jun-Obj Jun-		di carrier	1	4	9	Ē	est Year En	ding 12/31	3	# 2004 to 14	į			
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45.319 (3.072) 85.00 (86.472) (14.22) (4.372)	Date Class		MACCO	lan.	Г	BAC-confid	J	ı	A.C. CILLA	Service	36.400	Mr. Oak	Dec. Date	Ammin
1,15,00 1,20,00 1,00	MO910		(3,913)	9,510		(91,412)	1	ĸ	449,782	287,261	(19,573)	ı	49,969	1,111,525
1.15	MO911		(102)	28.28	(B) 02/2	(1.193)			3,331	1,824	(167)		424	9,014
113,556 (15,46) 30,04 (15,27) (15,25) (15,26)	MO914		-	ļ -	1	E			¥	8	ĝ		F	ន
2.505 (19.50)	MO916	-	(32)	210	574				4,640	6,029	(139)		2,103	20,039
12	M0921		49	983	2,512	_			3,662	2,750	245		3,095	21,154
6,719 (622) 2,423 3,123 (1544) (1224) 1,143 2,150 (1547) (1709) 2,141 (1709) 2,142 (1709) 2,143	MO922		€ É	2 6	110				286	2 5	5		192	1,495
1,115 (156) 441 303 (544) (224) 1,1943 2,041 1,046 (102) 912 8779 3,709 3,407 (102) 913 (102) 91	MO931		(25)	2,423	3,123				25,637	14.874	2 2		6,436	79,198
3,356 (14) (15) (15) (15) (15) (15) (15) (15) (15	MO932		136	3 5	303				2,041	1,046	(102)		878	7,556
16,784 (2,332) 7,722 (7,722 (20,733) 3,409 89,020 105,502 43,865 (4,369) 10,404 11,856 22	MOSS		(a) (a)	Ą į	1,636				9,238	2,132	(590)		6	10,537
1,544	MO940	_	(2,332)	7,122	1,732	_			105,502	43,886	(4,369)		11,858	282,253
212,710 (75,291) (12,292) (15,209)	M094		(4) (4)	2 §	94				839	909	38		134	2,502
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Jan-Od Feb Od Aquila Networks, St. Joseph Light & Power Division Jan-Od Feb Od Mar-Od Apr-Od Mar-Od Jun-Od Jul-Od Aug-Od Sep-Od Oct-Od Nov-Od Dec-Od 1,656 1008 750 40 75 7 7 739 538 538 1047 1,62 162 750 40 75 4 70 237 538 538 1047 24 1,62 85 5 0 4 70 237 538 538 1047 24 163 116 64 331 124 4 70 237 538 1047 24 163 146 36 3 4 35 128 109 109 24 163 31 10 4 35 83 108 108 24 163 31 24 36 36 36 <	Ng. RevKwh (\$)	J۰	0.03483	967600	0.03499	JI∽	- ∽	\$ 0.04926	\$ 0.05007	\$ 0.04935	\$ 0.03620	\$ 0.03655	\$ 0.03644	0.0404
Hearth Feb-04 Mar-04 Mar-04 May-04 May	•						Works, St.	Joseph Lia	hi & Powe	r Division				
Jain-Oct Feb-Od Mar_Odd May_Odd Jun_Odd Jun_Odd Aug_Odd Sep-Odd Oct-Odd Nov-Odd Dec-Odd 1,156 1,068 540 267 165 5 0 4 10 237 539 938 1,164 1,069 540 267 16 2 7 124 388 173 1,164 1,069 750 331 1,24 3 3 4 7 124 388 173 2 1,62 197 1,62 3 3 4 3 4 109 178 109 2 1,62 1,63 3 3 4 3 4 109 109 109 2 1,63 3 3 3 4 3 109 109 109 3 1,63 1,64 3 1,64 1,64 1,64 1,64 1,64 1,64 1,64 1,64						Weather	Data at MC	I Airport, P	anses City 104	9				
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7]	2004 Avg.	Jun-05		Per		Jun-05	,	12/31/04	1	Jun-0		Jun-05
8	Rate Class	Customers	Customers		Customer	<u> </u>	Revenue	i	WN Revenue	ì	Cust Adj		CustAdj.MWh
9	MO860	146,981	146,981		\$ 846	\$	124,372,587		\$ 124,372,587	T	\$	-	
10	MO870	49,462	53,500		\$ 1,061	[\$	56,743,436	- 1	\$ 52,397,219	l	\$ 4,346		73,914
11	MO711 MO716	26,735	26,866		\$ 1,840 \$ 10,077	15	49,434,686	1	\$ 49,317,855	1		831	3,082
13	MO716 MO720	1,108	1,108		\$ 10,077 \$ 36,749	\$	70,536 40,699,790		\$ 70,536 \$ 40,699,790	l	S	l- i	-
14	MO725	24	24		\$ 74,425	1	1,755,188		\$ 1,755,188	ł	5].	
15	MO730	109	109		\$ 246,136	\$	26,767,271	- 1	\$ 26,767,271	ſ	\$	۱. ۱	1 - 1
16	MO735	34	36		\$ 720,256	\$	25,929,219	ı	\$ 24,755,818	ļ	\$ 1,173	401	30,144
17 18	MO740	804	804		\$ 2,448	\$	1,968,844		\$ 1,968,844	ĺ	s	-	-
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25	Total	225,264	229,435		\$ 1,428	15	327,741,557		\$ 322,105,108	 	\$ 5,636	449	107,141
26	<u> </u>			-					022,100,100	-	10 0,000	1	[01,141]
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28	_	Customer Nam		_	Opr. Date	-	BUITE		Avg RevKwh\$	LF%		WM	Annual MWh
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31	Total	- on toolize apop	ino odalojilora		00004	Š	1,025,835		0.0473	1 307	**	1 5	22,869
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1 2 3 4 5	B ELECTRIC	C ue excludes lE Test Year	C, demand, an	Aquil (a Networks, S Customer Ann Test Year I mer charges. Ba Revenue	ualiz Endi	eseph Light & zation Adjus ing 12/31/04 ate Increase of Forecast	k Powe Iment	(eff. Apr-04) refi Teat Year		full 2004 te	st yea	ar. Actual
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1 2 3 4 5 6 7 8 9 100 111 122 133 14 15 166 177 18 19 20 21 22 23 24	Rate Class MO910 MO911 MO913 MO914 MO920 MO921 MO922 MO933 MO934 MO944 MO944	C restricted by a second secon	C. demand, and Forecast Jun-05 Customers 32,647 79 6,936 5,1,715 16,076 58 92 3,206 1,527 282 637 316 1,108 105 60	Aquil (a Networks, S Sustomer Ann Test Year I mer charges. Bs Revenue Per Customer \$ 638 \$ 2,458 \$ 747 \$ 1,043 \$ 327 \$ 968 \$ 6,797 \$ 285 \$ 654 \$ 2,247 \$ 1,130 \$ 2,277 \$ 1,193 \$ 1,338 \$ 406,361	s s s s s s s s s s s s s s s s s s s	zetion Adjusting 12/31/04 etc Increase of Forecast Jun-05 Revenue 20,836,123 193,378 5,180,105 4,782 561,418 15,569,605 390,815 26,177 2,096,849 3,431,802 318,698 1,450,226 378,380 18,877,986 139,928 24,246,200	k Powe Iment	(eff. Apr-O4) reff. Test Year 12/31/2004 WN Revenue \$ 20,832,033 \$ 192,645 \$ 5,179,123 \$ 4,695 \$ 538,124 \$ 14,769,274 \$ 389,560 \$ 20,007 \$ 2,091,005 \$ 3,353,892 \$ 317,474 \$ 1,419,013 \$ 377,099 \$ 18,643,781 \$ 140,135 \$ 24,190,969		Full 2004 te Forecas Jun-05 Cust Adj.F \$ 4,1 \$ \$ 23,2 \$ 800,2 \$ 1,4 \$ 77,3 \$ 1,4 \$ 234,4 \$ 55,5	st year 11 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Actual Jun-05 CustAdj.MWh 37 9 (8) 1 238 17,698 52 2 80 1,155 16 509 15 4,803 (15) 1,028
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Schedule ELW-5

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Change (L 36-L 19)	Load Factor	Year	12/22/04	11/30/04	10/28/04	09/14/04	PO/ED/80	07/13/04	06/14/04	05/20/04	D4/19/D4	03/04/04	02/02/04	10/20/10	DatePeak	Coincident w	MPS-System Net Load (Actual)	2004 Scaled		Load Factor	Year	12/22/04	11/30/04	10/28/04	09/14/04	08/03/04	07/13/04	06/14/04	05/20/04	04/19/04	03/04/04	02/02/04	01/05/04	DatePeak	Coincident with System Actual Peet	MPS-System Net Load (Actual)	2004 Actual	Aquila Net	ø
189		2004	12	=	á	9	æ		<u>o.</u>	D1		Lis	2	4	Month	ith Syste	n Net Lo	WN Sys			2004	12	==	ō	8		~	ø	Un_	4	<u>u</u>	N	-1	Month	ith Syste	Net Los	and Was	works-N	n
0		5,707,432	501,829	425,352	409,628	491,001	545,734	581,011	497,125	468,836	386,358	427,767	459,190	513,600	NEL MWh	Coincident with System Actual Peak	nd (Actual)	tem Hourty I		İ	5,707,432	501,829	425,352	409,628	491,001	645,734	581,011	497,125	468,∂36	386,359	427,767	459,190	513,600	NEL MWh	m Actual Per	nd (Actual)	2004 Actual and Waather Normalized System Hourly Loads	Agulla Networks-Missouri, Missouri Public Service (MPS)	0
0	48.34%	1,34	957	2	727	1,133	1,335	1,344	1,171	1,064	682	735	890	951	PeakMW	×		pads with 0		48.34%	1,344	957	28	727	1.133	1,335	1,34	1,571	1,064	682	735	890	951	PeakMW	ľ		ized System	ssouri Pub	m
4		L	22	8	2	<u> </u>	ω	<u> </u>	<u></u>	8	19	٨	Ŋ	ø,	Day			medau'			Ļ	8	8	28	#	ω	ಪ	*	2	6	ے	N	gα	Day I			Hours	iic Ser	77
_		L	6	益	8	17	4	7	7	8	2	6	â	ô	T OL			3			L	30	亩	ឧ	7	17	17	- 3	<u></u>	2	ø	6	õ	HOE	L	ļ	Post	8	۵ -
Change (138-118)	Load Factor	Year	12/13/04	11/24/04	10/21/04	09/14/04	08/03/04	07/13/04	06/08/04	05/21/04	04/01/04	03/22/04	02/13/04	01/30/04	DatePeak	Coincident with System Normal Peal	MPS-System Net Load (WN w/CustAnn/Large Load Adj.)	2004 Scaled WN System Hourly Loads with Customer Annualization and Large Load Adjustments		Load Factor	Year	12/13/04	11/24/04	10/21/04	09/14/04	08/03/04	07/13/04	06/08/04	05/21/04	04/01/04	03/22/04	02/13/04	01/30/04	DatePeak	Coincident with System Normal Peak	MPS-System Net Load (Weather Normal, MCI 1971-00	•	MPS)	_
19		2004	12	<u> </u>	ä		æ	~	0	G,		w	N	1	Month	ith System	n Net Load	Large Los		į	2004	12	=	5	99	<u>.</u>	~	o	ភ	4	ند.	N	_	Month	ith System	Net Load			۲.
136.066		5,984,353	524,360	446,917	420,118	493,088	624,210	655,336	548,167	438,732	396,001	445,702	462,430	187,875	NEL MYN	Normal Peak	WN W/Cust	d Adjustme			5,868,287	514,614	438,565	411,133	481,872	612,439	643,653	538,567	430,412	388,117	436,732	453,082	519,001	NEL MWh	Normal Peak	Weather N			*
28	48,65%	1,400	964	824	733	1,235	1,386	1,400	1,314	1,030	703	798	869	683	PeakMW		Ann/Large I	3		48.81%	1,374	946	809	718	1,207	1,360	1,374	1,291	1,010	689	782	852	973	PeakMW		ormal, MCI 1			۲
	ı	L	19	2	21	<u> </u>	w	13	9	2	_	22	ŭ,	30	Day		oad A				_	13	24	2	4	ų	盐	ø	21	_	22	ü	30	Day		971-00			R
		L	20	路	왕	7	4	<u> </u>	<u> </u>	ä	2	2	<u>.</u>	á	Ę		2				L	20	8	용	₹	4	1	喜	18	₽.	뫋,	â	18	Hour	L	Γ			z
380.85		276,921	22,631	21,565	10,490	2,087	78,478	74,325	51,042	(30,104)	9,642	17,935	3,240	15.691	NEL WWh	(Normal-Actual)	MPS-WN A			i	160,655	12.785	13,213	1,505	(9.129)	66,705	62 642	41,542	(38,424)	1,758	8,985	(6,108)	5,401	NEL MAN	(Normal-Actual)	MPS-Weath			9
28		56	7	(40)	5	102	51	£	143	<u> </u>	21	63	[21]	42	PeakMW	-Actual)	MPS-WN Adj, Cust.Ann.Ad				30	(11)	(55)	(9)	74	25	30	120	<u>\$</u>	7	47	(38)	22	PeakMW	-Actual)	MPS-Weether Normal Ad			٥
7	-	F	F		=		=			=	_	_		7	<u></u>	_				-1		Г					-	_	_	_	_	_	1	z	Г			m	カ
20%		4.9%	4.5%	5.14	2.6%	0.4%	14.4%	12.8%	10.3%	5.4%	2.5%	4.2%	0.7%	_	NEL Much	% Actual	Large Load Adj.				2.8%	2.5%	3.1%	0.4%	-1.9%	12.2%	10.8%	6.4×	8.27	0.5%	2 2	1.3*		NEL Mwh	WNA % Actual	bstment (WNA)		ELW-5	co
î		4.2%	0.7%	4.8%	0.9%	9.0%	3.8%	12%	12.2%	-3.2%	3.1%	8.63	2.3%	4.4%	PeakMW	<u>=</u>	À				2.3%	-1.2%	6.4%	-1.3%	6.5%	1.8%	2.3%	10.3%	-5.0%	1.0%	5.4%	4.3%	2.4%	PeakMW	cdual				-1

Schedule ELW-6

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Change (L38-L19)	Load Factor	Year	12/22/04	11/29/04	10/29/04	09/14/04	POCOND	07/20/04	06/0//04	05/28/04	04/01/04	03/12/04	02/13/04	01/06/04	DatePeak	Coincident v	SJD-System Net Load (Actual)	2004 Scales		Load Factor	Year	12/22/04	11/29/04	10/29/04	09/14/04	POTEOTRO	07/20/04	06/07/04	05/28/04	04/01/04	03/12/04	02/13/04	01/06/04	DatePeak	Coincident y	SJD-System Net Load (Actual)	2004 Actual	
8-(-19)		2004	12	=	ŧ		_0		, 0	<u> </u>	_	ü	N	_	Month	rith Syste	Mat Los	WN SY		7	2004	12	≠	ಕ	9	æ	7	0	Į.	4	<u></u>	N	<u></u>	Month	Ath Syste	Net Los	and We	
o		1,949,244	178,995	149,879	142,432	159,117	172,487	181,788	159,829	153,318	136,128	154,480	170,388	190,393	NEL MAYN	Coincident with System Actual Peak	id (Actual)	I PER HOURY			1,949,244	178,995	149,879	142,432	159,117	172,487	181,798	159,829	153,318	136,126	154,480	170,388	190,393	NEL MWh	Coincident with System Actual Peak	id (Actual)	Adulia Networks-Missouri, St. Joseph Light & Fower (SJD) 2004 Actual and Weather Normalized System Hourly Loads	
0	55.76%	398	329	284	240	34	399	398	2	333	242	268	333	357	PeakMW	ĺ		UNA EDRO		55.76%	398	329	284	240	<u> </u>	399	398	337	332	242	268	333	357	PeakMW	_		kad Syster	•
		L	22	23	13	<u> </u>	ш	2		<u> 22</u>		ಸ	<u>ಪ</u>	g,	8	•	1	Custor			L	N	29	뫊	7	u	8		28	_	<u>ಸ</u>	ವ	D	8			n Hou	:
			18	ä	4	<u> </u>	17	17	1 7	<u> </u>	00	ts	9	9	Į Į	L	į	Ber An			L	166	ᆶ	ī	⋨	17	=	17	16	æ	œ	8	9	Hour	L		ty Loan	,
Change (L38-L19)	Load Factor	Year	12/13/04	11/09/04	10/27/04	09/14/04	08/03/04	07/13/04	OBVOS/D4	05/21/04	04/01/04	03/16/04	02/13/04	01/30/04	DatePeak	Coincident wi	SJO-System Net Load (WN w/CustAmn/Large Load Adj.)	2004 Scaled WN System Hourly Loads with Customer Annualization and Large Load Adjustments		Load Factor	Year	12/13/04	11/09/04	10/27/04	09/14/04	08/03/04	07/13/04	06/08/04	05/21/04	04/01/04	03/16/04	02/13/04	01/30/04	DatePeak	Coincident with System Normal Peak	SJD-System	ir (8JD)	
난19)		2004	12	<u>.</u>	ಕ	9				<u> </u>	_	E E	<u>~2</u>	_	Month	th System	Tel Load	Large Lo		-	2004	12	<u>=</u>	ಶ	8	<u>-</u>	7	<u> </u>	Ç1		ᇤ	N	1	Month	ith Syster	Net Loz		,
90,637		2,086,643	192,022	162,967	151,529	164,666	197,027	204,702	178,380	148,815	144,444	166,346	175,056	200,690	NEL MWh	Coincident with System Normal Peal	1 OWN w/Cust	ad Adjustma			1,995,806	184,298	155,761	144,D49	157,041	189,121	196,794	171,055	141,435	137,205	158,690	167,585	192,772	NEL MWh	n Normal Pea	SJD-System Net Load (Weather Normal, MCI 1971-00		
17	57.95%	410	358	297	258	350	\$	010	386	32.	255	308	<u> </u>	180	PeakMW		Ann/Large L	1	•	57.79%	393	343	284	246	334	386	393	370	305	243	2 92	327	366	PeakMW	_	ormal, MCI 1		•
Ц			13	89	27	<u>*</u>	ü	12		<u>12</u>		<u>5</u>	ᆆ	ខ	Day	۱ ·	Sad A				L	13		27		ω	<u> </u>	a	2	_	<u> </u>	ដ	36	Day		12/2		3
	Į		9	<u></u>	1	<u> </u>	5	17	17	<u> </u>	5	œ	<u> </u>	ъ.	Ę		٤					9	20	9	7	17	⇉	17.	-		<u></u>		8	Hour	L	<u> </u>		3
90,837		137,399	13,027	13,088	9,097	5,549	24,540	22,904	18,551	(4,503)	8,316	11,866	4,668	10.297	NEL Mynh	(Normal-Actual)	SJO-WN Ad				46,562	5,303	5,882	1,617	(2,076)	16,634	14,996	11,226	(11,823)	1,077	4,210	(2,803)	2,379	NEL Mwh	(Normal-Actual)	SJD-Weath		7
17	i	12	29	3	6	ø	C)	12	46	710	ដ	ŝ	8	24	PoakMW	Actual)	SJD-WN Adj, Cust Ann Ad				(5)	14	•	σ,	<u>3.</u>	3	<u>(5)</u>	# <u>.</u>	(27)	_	26	(<u>6</u>)	9	PeakMW	Actual)	SJD-Weather Normal Ad		6
4.7%		7.0%	7.3%	8.7%	6.4%	3.5%	14.2%	12.6%	11.6%	-2.8%	6.1%	7.7%	27%	5.4%	NEL NWD		di, Large Load Adi	_	_		2.4%	3.0%	3.9%	1.1%	76 1-	9.6%	8.2%	7.0%	-7.8%	0.8%	2.7%	-1.6%	1.2%	NEL Mwh	_	justment (WNA)	ELW-6	
4.2%			8.8%									_			h PeakMW	% Actual	d Ad).									-								n PeakMM	WNA % Actual	Ä		_

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 tariffs increasing electric) Case No. ER
rates for the service provided to customers in)
the Aquila Networks-MPS and Aquila)
Networks-L&P area)
•	
County of Jackson)	
) ss	
State of Missouri)	
AFFIDAVIT OF	ERIC L. WATKINS
sponsors the accompanying testimony entitled testimony was prepared by him and under hi made as to the facts in said testimony and sch	orn, deposes and says that he is the witness who is "Direct Testimony of Eric L. Watkins;" that said is direction and supervision; that if inquiries were needules, he would respond as therein set forth; and are true and correct to the best of his knowledge,
	_
	E-L Watt
	Eric L. Watkins
Subscribed and sworn to before me this	_ day of, 2005.
•	Notary Public Terry D. Lutes
My Commission expires:	
8-20-2008	Notary Jackson County Seal My Commission Expires August 20, 2008