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

Direct Testimony

of

Eric L. Watkins

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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	А.	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		Residential (MO860-General Service, MO870-Space Heat)
12		Small General Service (Combined MO710-No Demand Meter and MO 711-
13		Secondary, MO716-Primary)
14		Large General Service (MO720-Secondary, MO725-Primary)
15		Large Power (MO730-Secondary, MO735-Primary)
16		Schools & Churches (MO740-Secondary)
17		
18 19		For L&P:
19 20		Residential (MO910,MO911,MO913,MO914,MO915,MO920,MO921,MO922)
20 21		Small General Service (MO930,MO931,MO932,MO933,MO941)
22		Large General Service (MO940)
23		Large Power (MO944)
2 4		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
30		HELM'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.
11	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
2		normalized to compute weather adjustments to revenue. This method assumes that
3		weather normalization affects only the weather sensitive rate class sales, with no
4		effect from customer charges or other fixed charges. Interim Energy Charges were
5		excluded from the weather adjustment to revenue as described in direct testimony of
6		Aquila witness Susan Braun. Actual average rates were normalized for the full test
7		year 2004, considering the base rate increases for MPS and L&P which became
8		effective in April 2004.
9	Q.	Please describe the results of the weather normalization adjustment to revenue for the
10		test year ending December 31, 2004.
11	A.	Schedules ELW-1 and ELW-2 provide the weather normalization adjustment to
12		revenue for MPS and L&P, respectively. The total weather normalization adjustment
13		to revenue for weather sensitive retail rate classes is \$12,447,463 for MPS, and
14		\$2,796,398 for L&P, as summarized in Schedule SKB-4 included with the direct
15		testimony of Aquila witness Susan Braun.
16		UNBILLED SALES AND REVENUE ADJUSTMENT
17	Q.	Please describe the unbilled sales and revenue adjustment for the test year ending
18		December 31, 2004.
19	A.	Schedules ELW-1 and ELW-2 provide the unbilled sales and revenue adjustment at
20		the bottom of the sales and revenue schedule for MPS and L&P, respectively.
21		Unbilled sales for the test year is the difference between calendar month weather
22		normalized sales and billing month weather normalized sales for the rate codes that
23		were weather normalized, as calculated in HELM's Billing Cycle Analysis. Unbilled

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

1		based on dividing the weather normalized test year rate class revenues by average
2		customers, and then multiplying the result by the projected customers as of June 30,
3		2005 to obtain customer annualized revenues. Customers were projected to June
4		2005 based on growth from January to June 2004 in historical monthly customers by
5		rate class, except those rate classes which had no significant observable growth which
6		were assumed to remain at December 2004 customer levels or the average level for
7		the test year. Actual customer levels by rate class at June 30, 2005 will be used when
8		available to true up the customer annualization adjustment. The customer
9		annualization adjustment is the difference between the test year weather normalized
10		revenues and the customer annualized revenues projected at June 30, 2005 customer
11		levels.
12	Q.	Please describe the results of the customer annualization adjustment to revenue at
13		June 30, 2005.
14	A.	Schedules ELW-3 and ELW-4 provide the customer annualization adjustment to
15		revenue for MPS and L&P, respectively. The total customer annualization adjustment
16		to revenue for weather sensitive retail rate classes is \$5,636,449 for MPS, and
17		\$1,237,646 for L&P, based on projected customer levels at June 30, 2005, as
18		summarized in Schedule SKB-4 included with the direct testimony of Aquila witness
19		Susan Braun.
20		LARGE CUSTOMER LOAD ADJUSTMENT
21	Q.	Please describe the large customer load adjustment to sales and revenue for the test
22		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		Electric 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
23	Q.	What is your recommendation to the Commission?

1	A.	My recommendation to the Commission is that it should adopt the MPS and L&P
2		weather normalized revenue adjustment, unbilled revenue adjustment, leap year
3		adjustment, customer annualization adjustment, and large customer load adjustment;
4		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 ELECTRIC	С	D	E	F	Wea	ther Norma	ا souri Public الization Adj اding 12/31/	ustment	K vision	L		N ELW - 1 Page 1 of 2	0
Billed WN Adj.	MWh Sale	es Adjustme	nt (Norma	al - Actual))								
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	Anr
MO860	4,073	(324)	1,359	1,643	(6,355)	1,210	34,199	36,066	23,041	(368)	1,664	3,384	99,
MO870	7,176	(694)	2,028	5,182	(527)	1,012	8,666	9,603	6,673	(849)	7,905	6,489	52,
MO711 MO716	828 1	(254)	(63) 1	42	(2,063)	(507) 1	5,768	6,315	3,450 2	(516)	1,450 1	1,015	15,
MO716 MO720	792	(0) (68)	295	(1) (44)	(3) (1,449)	45	5 3,320	5 3,430	2 1,863	(0) (111)	56	2 670	8,
MO725	(8)	(2)	(14)	(27)	(1,113)	(4)	188	106	91	(2)	(45)	(4)	
MO730	12	(40)	(46)	(356)	(936)	414	1,769	1,941	591	78	(777)	199	2
MO735	15	(24)	(9)	(416)	(1,129)	643	1,826	2,007	492	120	(723)	14	2
MO740	104	(12)	26	38	(72)	0	376	359	273	15	2	83	1
Billed WN Adj.	12,992	(1,419)	3,577	6,061	(12,586)	2,815	56,116	59,832	36,475	(1,633)	9,534	11,851	183
Jnbilled Adj.	(20,946)	(42,412)	7,446	(17,150)	19,210	43,107	42,506	9,175	(77,866)	(17,158)	20,557	32,777	
eap Year Adj.	(1,229)	(1,119)	(1,111)	(944)	(1,045)	(1,317)	(1,648)	(1,557)	(1,205)	(1,035)	(1,065)	(1,313)	(14
LECTRIC	xcludes IEC	, demand, an	d customer		Wea	ather Norma est Year Er	souri Public alization Ad iding 12/31/ % (effective.	justment 04		04 test year		ELW - 1 Page 2 of 2 nue.	
	\$ Revenu	e Adjustme	nt (Norma	I - Actual)									
Billed WN Adj.													
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	An
MO860 MO870	254,351 321,221	(20,455) (30,514)	88,240 96,363	108,567 272,145	(409,864) (28,865)	90,098 75,760	2,561,096 650,734	2,700,248 720,847	1,719,810 499,568	(23,429) (47,151)	110,170 447,218	206,293 287,358	7,385 3,264
MO370	38,654	(11,817)	(3,006)	2,086	(98,740)	(31,872)	359,899	398,506	217,341	(23,902)	70,870	45,863	963
MO716	33	(14)	31	(25)	(137)	51	307	278	90	(5)	31	73	
MO720	31,074	(2,646)	11,737	(1,773)	(56,115)	2,406	177,191	186,085	101,098	(4,309)	2,216	24,564	471
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	14 131
MO730 MO735	457	(746)	(1,447) (271)	(12,765)	(34,376)	24,978	71,915	77,805	19,135	3,712	(24,171) (21,984)	424	127
MO740	5,510	(649)	1,433	2,215	(4,111)	12	28,850	27,567	20,998	819	100	4,413	87
		, ,			,								
Billed 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	575,095	12,447
Jnbilled Adj. .eap Year Adj.	(941,808) (55,263)	(1,871,068) (49,373)	337,765 (50,386)	(792,140) (43,607)	898,457 (48,895)	2,637,423 (80,607)	2,671,911 (103,616)	578,695 (98,230)	(4,859,907) (75,237)	(816,055) (49,237)	981,979 (50,880)	1,478,835 (59,247)	304 (764
vg.RevKwh (\$)			\$ 0.04536			\$ 0.06118		\$ 0.06307	\$ 0.06241		\$ 0.04777		\$ 0.0
					Weather	Data at MC	souri Public I Airport, K ading 12/31/	ansas City,					
HDD65 (MCI):	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	An
Actual-Cal.Mo.	1,158	980	540	267	85	5	0	4	10	237	539	938	4,
ctual-2MoAvg.	1,064 1,182	1,069 897	760 658	404 331	176 124	45 8	3 0	2 7	7 58	124 269	388 668	739 1,047	4, 5,
ormal71-00 Deviation(N-A)	1,182	(83)	118	64	39	3	0	3	48	32	129	1,047	5,
6 Deviation	2%	-9%	18%	19%	31%	5	0%	43%	83%	12%	123	103	
CDD65 (MCI):	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	An
Actual-Cal.Mo.	0	0 0	0	32	164	178	316 247	244 280	166 205	18 92	<mark>0</mark> 9	0 0	1,
Actual-2MoAvg. Normal71-00	0	0	0 0	16 12	98 101	171 264	247 418	280 367	205 151	92 12	9 0	0	1, 1,
	U	J	J					507	101	14	V	J	۱,
Deviation (N-A)	0	0	0	(20)	(63)	86	102	123	(15)	(6)	0	0	

MO310 65 (73) 74 172 (1.080) 977 5.809 6.74 4.322 (2.13) 1.916 9.92 MO313 366 (2.2) 9.2 9.81 9.97 (3.15) 9.0 10.0 <	B ELECTRIC	с	D	E	F	Wea	H tworks, St. ther Norma est Year Er	alization Ac	ljustment	K r Division	L		N ELW - 2 Page 1 of 2	0
MO310 65 (73) 74 172 (1.080) 977 5.809 6.74 4.322 (2.13) 1.916 9.92 MO313 366 (2.2) 9.2 9.81 9.97 (3.15) 9.0 10.0 <		MWh Sales	s Adjustmer	nt (Normal	- Actual)									
MO311 5 (2) 4 (0) (20) 7 51 (20)	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	Annu
MOR31 308 (22) 92 181 (289) (100) 1 1 1 000 0 00 00 00 00 00 1 1 1 00 <	MO910	850	(73)	174	172	(1,666)	(877)	5,669	6,774	4,326	(361)	1,016	924	16,92
MO315 0 0 0 00 100 1<				-	(0)	()	7	51	50		(3)	9	7	13
MO3915 22 (ii) 3 8 (ii) (iii) 38 44 (iii) 23 (iii) 30 30 MO321 64 1 1 44 88 2 (iii) 44 55 141 6 77 73 MO320 76 (7) 22 3 (i) 0 4 4 3 0 77 75 MO320 76 (7) 22 35 (66) (21) 153 (16) 64 155 (13) 313 37 77 (13) 65 69 MO323 80 (10) 2 4 8 69 (71) 23 23 (23) 33 313 111 359 MO344 6 (10) 2 4 (25) 172 15,160 14,278 8,267 0.868,160 (20) Lhuide 4 (45) (449) (251) 10,172 <td></td> <td></td> <td></td> <td></td> <td></td> <td>. ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3,90</td>						. ,								3,90
M0320 M0322 3.216 6 (42) (1) 102 2 2.29 3 (1) 0 0 4 4 3 0 5 5 M0322 M0323 77 1 77 2 3 (1) 0 4 4 3 0 5 5 M0323 M0323 135 (14) 55 7 (12) (11) 306 332 223 (10) 15 133 135 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td></td<>												-	-	
MO322 6 1 1 4 5 2 (10) 4 4 3 0 7 7 5 MO330 78 (7) 29 35 (56) (21) 153 156 86 (22) 67 76 MO332 13 (14) 62 67 (12) (13) 21 22 12 (21) 14 14 14 MO343 55 (11) 24 86 (10) 21 (23) 133 13 135 14 14 14 14 138 133 13			. ,											23
MO322 6 (1) 2 3 (1) 0 4 4 3 0 5 5 MO321 13 (14) 52 67 (127) (61) 336 88 (22) (36) 1195 138 MO323 88 (10) 32 36 (65) (14) 133 137 77 (13) 88 80 MO324 15 (17) 22 1 163 158 (15) 15 16 14 44 80 (17) 122 1.16 14.78 1.82 1.93 128 1.1														19,03 42
MO230 To TO 22 35 (e6) (21) 153 155 86 (22) 97 75 MO332 11 (2) 7 5 (9) (3) 22 12 (2) 14 14 14 MO332 11 (2) 7 5 (9) (3) 22 33 23 (5) 16 14 14 MO344 6 (10) 22 (3) 0 16 6 11 153 131 356 Billed W044 6 (10) 153 (21) 110 150 14.02 200 155 5.51 101 150 22.01 (20) 100.61 14.02 200 105 14.02 200 105 14.02 200 105 14.02 200 105 100 14.02 100.01 100.02 100.01 100.01 100.01 100.01 100.01 100.01 100.01 100.01<														-
MCG32 17 (2) 7 5 (0) (3) 21 23 12 (2) 14 14 MCG33 80 (10) 2 36 (5) (14) 33 137 (7) (13) 83 80 MCG41 61 (11) 2 24 (11) 23 33 23 (12) (12) (11) (13) 131 359 Billed VMAd 61 (12) 21 (11)						. ,		153	156	86				6
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Inblied Adj. (8, 564) (10, 339) (3, 776) (4, 491) 2, 511 (10, 152) (5, 853) 3, 719 (16, 139) (2, 2653) (8, 264) (471) ELECTRIC Aquila Networks, St. Joseph Light & Power Division Weather Normalization Adjustment ELW - 2 Page 2 of 2 Note: Revenue accludes /EC, demand, and customer charges. Base rate increase of 3,855% (off, 40-0) reflected for full 2004 test year. ELW - 2 Stevenue accludes /EC, demand, and customer charges. Base rate increase of 3,855% (off, 40-0) reflected for full 2004 test year. Stevenue Adjustment (Normal - Actual) Billed WN Adj. Rate Class Jan -04 Feb-04 Mar-04 Apr-04 May-04 Jun-04 Jul-04 Aug-2761 (19, 773) 56, 774 4, 424 MO310 4, 519 (33 + 13) 9, 510 9, 820 (11, 413) 4, 333 1, 324 (167) 54, 44, 44 4, 44 1, 1 1, 7 (10) 66, 77 3, 333 1, 324 (15, 46) 84, 44, 172 2, 2071 1, 11 1, 1 1, 7 (10) 1, 1 1, 7 (10) 66, 77 7, 77														50,9
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S Revenue Adjustment (Normal - Actual) Bilder WN Adj. Sep-04 Oct-04 Nov-04 Dec-04 Apr-04 May-04 Jun-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 MO910 45,319 (3,913) 9.510 9.620 (91,412) (68,281) 376,488 49/972 287,261 (19,573) 55,764 49.969 1.1 MO910 45,319 (3,913) 9.510 9.620 (91,412) (68,281) 377,468 49.972 287,261 (19,573) 55,764 49.969 1.1 MO913 13,823 (1977) 4.282 8.700 (12,34) (677) 3.707 4.640 6.029 (139) 2.685 2.103 MO921 2.567 49 580 2.512 72 (2,207) 156,363 167,441 516 182 3.095 3.095 1.060 142,644 15 166 182 1.093 1.222 (3,256) 1.13,71 1.33,56 1.3,671 <th></th> <th>cludes IEC. c</th> <th>lemand. and c</th> <th>sustomer cha</th> <th></th> <th>Wea</th> <th>ather Norm est Year Er</th> <th>alization Anding 12/31</th> <th>djustment /04</th> <th></th> <th>vear.</th> <th></th> <th></th> <th>2</th>		cludes IEC. c	lemand. and c	sustomer cha		Wea	ather Norm est Year Er	alization Anding 12/31	djustment /04		vear.			2
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MO941 232 (41) 83 18 (114) 5 811 839 500 (34) 73 131 MO944 1,544 (1,665) (1,100) (6,390) (13,080) 9,997 32,730 32,670 8,105 877 (14,809) (1,521) Unbilled Adj. (300,147) (360,111) (12,524) (15,707) (16,209) (62,665) 786,378 911,000 544,122 (21,591) 242,201 214,829 2,7 Unbilled Adj. (15,957) (15,109) (14,253) (12,221) (12,732) (20,389) (24,667) (24,888) (19,950) (13,307) (14,125) (17,181) (2 Avg.RevKwh (\$) \$ 0.03495 \$ 0.03495 \$ 0.03495 \$ 0.04825 \$ 0.04925 \$ 0.03605 \$ 0.03665 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03495 \$ 0.03495 \$ 0.0349 \$ 0.0331 \$ 0.04825 \$ 0.04925 \$ 0.03605 \$ 0.03664 \$ Actual-Calendar 1,158 990											. ,			10,5 262,2
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Billed WN Adj. 212.710 (26,291) 65,399 106,507 (167,209) (62,665) 786,378 901,008 545,122 (21,591) 242,201 214,829 2,7 Unbilled Adj. (300,147) (360,111) (12,53) (12,221) (12,732) (20,389) (24,667) (24,888) (19,950) (14,125) (17,181) (2 Avg.RevKwh (\$) \$ 0.03495 \$ 0.03496 \$ 0.03496 \$ 0.03493 \$ 0.03492 \$ 0.04926 \$ 0.0937 \$ 0.04925 \$ 0.03620 \$ 0.03625 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03495 \$ 0.03496 \$ 0.03494 \$ 0.03494 \$ 0.04926 \$ 0.04925 \$ 0.03620 \$ 0.03620 \$ 0.03620 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03493 \$ 0.03494 \$ 0.03494 \$ 0.04926 \$ 0.04926 \$ 0.03620 \$ 0.03620 \$ 0.03644 \$ Actual-Calendar 1,158 \$ 0.03494 \$ 0.03494 \$ 10n-04 \$ Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04							-							47,3
Leap Year Adj. (15,957) (15,109) (14,253) (12,221) (12,732) (20,389) (24,667) (24,888) (19,950) (13,307) (14,125) (17,181) (2 Avg.RevKwh (\$) \$ 0.03505 \$ 0.03493 \$ 0.03499 \$ 0.03431 \$ 0.04832 \$ 0.04936 \$ 0.04935 \$ 0.03605 \$ 0.03655 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03505 \$ 0.03496 \$ 0.03499 \$ 0.03511 \$ 0.04832 \$ 0.04935 \$ 0.03620 \$ 0.03655 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03496 \$ 0.03499 \$ 0.03511 \$ 0.04832 \$ 0.04935 \$ 0.03620 \$ 0.03655 \$ 0.03644 \$ Avg.RevKwh (\$) \$ 0.03496 \$ 0.03499 \$ 0.03511 \$ 0.04832 \$ 0.04935 \$ 0.03620 \$ 0.03664 \$ Avg.RevKwh (\$) \$ 10.064 \$ 0.03496 \$ 0.03490 \$ 0.03490 \$ 0.03620 \$ 0.03620 \$ 0.03665 \$ 0.03644 \$ HDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 May-04 Jun-04<														2,796,3
Avg.RevKwh (\$) \$ 0.03493 \$ 0.03499 \$ 0.03493 \$ 0.03499 \$ 0.03493 \$ 0.04832 \$ 0.04926 \$ 0.04926 \$ 0.04935 \$ 0.03655 \$ 0.03655 \$ 0.03631 \$ 0.04926 \$ 0.04926 \$ 0.04925 \$ 0.03635 \$ 0.03655 \$ 0.03655 \$ 0.03644 \$ Aquila Networks, St. Joseph Light & Power Division Weather Data at MCI Airport, Kansas City, MO Test Year Ending 12/31/04 HDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-Calendar 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00	Unbilled Adj.				(157,144)	1 -	513,065	275,041		(799,070)	(96,429)	322,724	369,966	(81,1
Aquila Networks, St. Joseph Light & Power Division Weather Data at MCI Airport, Kansas City, MO Test Year Ending 12/31/04 HDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 May-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 A Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-2Mo.Avg. 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00 1,182 897 658 331 124 8 0 7 58 269 668 1,047 Deviation(N-A) 24 (83) 118 64 39 3 0 3 48 32 129 109 0 % Deviation <td></td> <td>(15,957)</td> <td>(15,109)</td> <td>(14,253)</td> <td></td> <td></td> <td>1 . 1</td> <td>(24,667)</td> <td>(24,888)</td> <td>(19,950)</td> <td>(13,307)</td> <td>(14,125)</td> <td></td> <td>(204,7</td>		(15,957)	(15,109)	(14,253)			1 . 1	(24,667)	(24,888)	(19,950)	(13,307)	(14,125)		(204,7
Weather Data at MCI Airport, Kansas City, MO Test Year Ending 12/31/04 HDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 May-04 Jun-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 A Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-Zelondar 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00 1,182 897 658 331 124 8 0 7 58 269 668 1,047 Deviation 2% -9% 18% 19% 31% 0% 3 48 32 129 109 % Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 109% 10% & Deviation 2% -9% 18% 19% 31%	Avg.RevKwh (\$)	\$ 0.03505	\$ 0.03483	\$ 0.03496	\$ 0.03499	\$ 0.03531	\$ 0.04832	\$ 0.04926	\$ 0.05037	\$ 0.04935	\$ 0.03620	\$ 0.03655	\$ 0.03644	\$ 0.040
Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-2Mo.Avg. 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00 1,182 897 658 331 124 8 0 7 58 269 668 1,047 Deviation(N-A) 24 (83) 118 64 39 3 0 3 48 32 129 109 % Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 19% 10% CDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jun-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Actual-Calendar 0 0 0 32 164 178 316 244 166 18 0						Weather	Data at MO	CI Airport, I	, Kansas Cit					
Actual-Calendar 1,158 980 540 267 85 5 0 4 10 237 539 938 Actual-2Mo.Avg. 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00 1,182 897 658 331 124 8 0 7 58 269 668 1,047 Deviation(N-A) 24 (83) 118 64 39 3 0 3 48 32 129 109 % Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 19% 10% CDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Actual-Calendar 0 0 0 0 0 0 0 0 0 0 0 0 0<	HDD65 (MCI):	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Ann
Actual-2Mo.Avg. 1,064 1,069 760 404 176 45 3 2 7 124 388 739 Normal71-00 1,182 897 656 331 124 8 0 7 58 269 668 1,047 Deviation 2% -9% 118 64 39 3 0 3 48 32 129 109 % Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 19% 10% CDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Actual-Calendar 0<							5		Ŭ					4,7
Deviation(N-A) 24 (83) 118 64 39 3 0 3 48 32 129 109 % Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 19% 10% CDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jun-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Actual-Calendar 0 0 32 164 178 316 244 166 18 0 0 Actual-2Mo.Avg. 0 0 12 101 264 418 367 151 12 0 0 Normal71-00 0 0 120 (63) 86 102 123 (15) (6) 0 0	Actual-2Mo.Avg.	1,064	1,069	760	404	176		3		7	124	388	739	4,7
% Deviation 2% -9% 18% 19% 31% 0% 43% 83% 12% 19% 10% CDD65 (MCI): Jan-04 Feb-04 Mar-04 Apr-04 Jun-04 Jun-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 A Actual-Calendar 0 0 32 164 178 316 244 166 18 0 0 Actual-2Mo.Avg. 0 0 16 98 171 247 280 205 92 9 0 Normal71-00 0 0 12 101 264 418 367 151 12 0 0 Deviation (N-A) 0 0 0 200 123 (15) (6) 0 0														5,2
CDD65 (MC): Jan-04 Feb-04 Mar-04 May-04 Jun-04 Jul-04 Aug-04 Sep-04 Oct-04 Nov-04 Dec-04 Aug-04 Actual-Calendar 0 0 0 32 164 178 316 244 166 18 0 0 Actual-Calendar 0 0 0 16 98 171 247 280 205 92 9 0 Normal71-00 0 0 12 101 264 418 367 151 12 0 0 Deviation (N-A) 0 0 0 (20) (63) 86 102 123 (15) (6) 0 0							3							4
Actual-Calendar 0 0 32 164 178 316 244 166 18 0 0 Actual-2Mo.Avg. 0 0 0 16 98 171 247 280 205 92 9 0 Normal71-00 0 0 12 101 264 418 367 151 12 0 0 Deviation (N-A) 0 0 0 (20) (63) 86 102 123 (15) (6) 0 0	% Deviation	2%	-9%	18%	19%	31%		0%	43%	83%	12%	19%	10%	
Actual-Calendar 0 0 32 164 178 316 244 166 18 0 0 Actual-2Mo.Avg. 0 0 0 16 98 171 247 280 205 92 9 0 Normal71-00 0 0 12 101 264 418 367 151 12 0 0 Deviation (N-A) 0 0 0 (20) (63) 86 102 123 (15) (6) 0 0	CDD65 (MCI):	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04	Ann
Normal71-00 0 0 12 101 264 418 367 151 12 0 0 Deviation (N-A) 0 0 0 (63) 86 102 123 (15) (6) 0 0	Actual-Calendar	0	0		32	164	178						0	1,1
Deviation (N-A) 0 0 0 (20) (63) 86 102 123 (15) (6) 0 0														1,1
														1,3
% Deviation 0% 0% 0% -167% -62% 33% 24% 34% -10% 0% 0%											(6)			2

1 2	B ELECTRIC	С	D				G Iri Public Serv		sior	l 1	J	к	L ELW - 3
3 4				Cu	Test Year		ation Adjustme g 12/31/04	ent					
5	Note: Revenue	e excludes IEC	. Base rate in	crease of	4.671% (effe	tive A	pr-04) reflected t	for full 20	004 t	est year WNA t	o revenue		
6		Test Year	Forecast		Revenue		Forecast			Test Year		Forecast	Forecast
7		2004 Avg.	Jun-05		Per		Jun-05			12/31/04		Jun-05	Jun-05
8	Rate Class	Customers	Customers		Custome	_	Revenue		V	VN Revenue		Cust Adj.Rev	CustAdj.MWh
9	MO860	146,981	146,981		+	46 \$,- ,		\$	124,372,587		\$-	-
10	MO870	49,462	53,500		•	61 \$, -,		\$	52,397,219		\$ 4,346,218	
11	MO711	26,735	26,866		• 7	40 \$,		\$	49,317,855		\$ 116,831	3,082
12	MO716	7	7		\$ 10,0		- ,		\$	70,536		\$ -	-
13	MO720	1,108	1,108		\$ 36,7				\$	40,699,790		\$ -	-
14	MO725	24	24		\$ 74,4		, ,		\$	1,755,188		\$ -	-
15	MO730	109	109		\$ 246,		-, - ,		\$	26,767,271		\$ -	-
16	MO735	34	36		\$ 720,2		- , , -		\$	24,755,818		\$ 1,173,401	30,144
17	MO740	804	804		\$ 2,4	48 \$	5 1,968,844		\$	1,968,844		\$ -	-
18													
19													
20													
21													
22													
23													
24 25	Total	225,264	229,435		\$ 1,4	28 \$	327,741,557		\$	322,105,108		\$ 5,636,449	107,141
26								-					
27	Large Load A	djustments (N	lormalized 20	05):									
28	Rate Class	Customer Na	me		Opr. Date	R	evenue		Avg	g RevKwh\$	LF%	Peak MV	/ Annual MWh
29	MO730	St.Lukes Hosp	. (Lees Summ	nit)	Jun-05	9	5 772,632		\$	0.0441	50%	4	17,520
30	MO730	Annualize spe	cific customer	S	Dec04	9	253,203		\$	0.0473	50%	1	5,349
31	Total					40	1,025,835					5	22,869

Schedule ELW- 4

SU	icuuic L	1. * *+													
1	в	С	D	Е		F		G	н		I	J		К	L
2	ELECTRIC			Aquil	la Ne	tworks, St	. Jo	seph Light 8	Powe	er D	ivision				ELW - 4
3				(Cust	omer Annı	ıali	zation Adjust	tment						
4					٦	Fest Year E	nd	ing 12/31/04							
5	Note: Revenu	e excludes IEC	C, demand, an	d custo	omer	charges. Ba	se r	ate increase of	3.685%	6 (e	ff. Apr-04) refl	ected f	or ful	l 2004 test ye	ear.
6		Test Year	Forecast		F	Revenue		Forecast			Test Year			Forecast	Actual
7		2004 Avg.	Jun-05			Per		Jun-05			12/31/2004			Jun-05	Jun-05
8	Rate Class	Customers	Customers		C	ustomer		Revenue		N	/N Revenue		Cu	st Adj.Rev.	CustAdj.MWh
9	MO910	32,647	32,647		\$	638	\$	20,836,123		\$	20,832,033		\$	4,090	37
10	MO911	79	79		\$	2,458	\$	193,378		\$	192,645		\$	733	9
11	MO913	6,936	6,936		\$	747	\$	5,180,105		\$	5,179,123		\$	982	(8)
12	MO914	5	5		\$	1,043	\$	4,782		\$	4,695		\$	86	1
13	MO915	1,642	1,715		\$	327	\$	561,418		\$	538,124		\$	23,294	238
14	MO920	15,268	16,076		\$	968	\$	15,569,605		\$	14,769,274		\$	800,331	17,698
15	MO921	58	58		\$	6,797	\$	390,815		\$	389,560		\$	1,256	52
16	MO922	91	92		\$	285	\$	26,177		\$	26,007		\$	170	2
17	MO930	3,194	3,206		\$	654	\$	2,096,849		\$	2,091,005		\$	5,843	80
18	MO931	1,491	1,527		\$	2,247	\$	3,431,802		\$	3,353,892		\$	77,910	1,155
19	MO932	281	282		\$	1,130	\$	318,698		\$	317,474		\$	1,225	16
20	MO933	623	637		\$	2,277	\$	1,450,226		\$	1,419,013		\$	31,213	509
21	MO934	315	316		\$	1,197	\$	378,380		\$	377,099		\$	1,281	15
22	MO940	1,095	1,108		\$	17,038	\$	18,877,986		\$	18,643,781		\$	234,205	4,803
23	MO941	105	105		\$	1,338	\$	139,928		\$	140,135		\$	(206)	(15)
24	MO944	60	60		\$	406,361	\$	24,246,200		\$	24,190,969		\$	55,232	1,028
25	Total	63,888	64,847		\$	1,445	\$	93,702,472		\$	92,464,826		\$	1,237,646	25,621
26															
27															
28	Rate Class	Customer Na	ne		Opr.	Date	Re	venue		A٧	g RevKwh\$	LF%	1	Peak MW	Annual MWh

28	Rate Class	Customer Name	Opr. Date	Reve	enue	Avg	RevKwh\$	LF%	Peak MW	Annual MWh
29	MO944	Albaugh Chemical	Jun-05	\$	317,236	\$	0.0362	50%	2	8,760
30	MO944	Triumph Foods (Pork)	Jun-05	\$	2,062,037	\$	0.0362	50%	13	56,940
31	Total			\$	2,379,273	\$	0.0362	50%	15	65,700

1	в	с	D	Е	F	G	ні	J	к	L	м	N	0	Р	۵	R	s	т
2			ں Aissouri, Mis		-			J	ĸ	L	IVI	IN	0	P	Q		ELW - 5	
3			ather Normal															
4	MPS-System			.200 0 0000		.,		n Net Loa	d (Weather No	ormal, MCI	1971-00))	N	MPS-Weath	er Normal	Adju	stment (WNA	()
5	Coincident w	ith Syste	m Actual Peal	k			Coincident w	ith Systen	n Normal Peak				ΙΓ	(Normal-	-Actual)	[WNA %	Actual
6	DatePeak	Month	NEL_MWh	PeakMW	Day	Hour	DatePeak	Month	NEL_MWh	PeakMW	Day	Hour		NEL_Mwh	PeakMW		NEL_Mwh	PeakMW
7	01/05/04	1	513,600	951	5	19	01/30/04	1	519,001	973	30	19		5,401	22		1.1%	2.4%
8	02/02/04	2	459,190	890	2	19	02/13/04	2	453,082	852	13	19		(6,108)	(38)		-1.3%	-4.3%
9	03/04/04	3	427,767	735	4	19	03/22/04	3	436,732	782	22	20		8,965	47		2.1%	6.4%
10	04/19/04	4	386,359	682	19	21	04/01/04	4	388,117	689	1	21		1,758	7		0.5%	1.0%
11	05/20/04	5	468,836	1,064	20	18	05/21/04	5	430,412	1,010	21	18		(38,424)	(54)		-8.2%	-5.0%
12	06/14/04	6	497,125	1,171	14	17	06/08/04	6	538,667	1,291	8	18		41,542	120		8.4%	10.3%
13	07/13/04	7	581,011	1,344	13	17	07/13/04	7	643,653	1,374	13	17		62,642	30		10.8%	2.3%
14	08/03/04	8	545,734	1,335	3	17	08/03/04	8	612,439	1,360	3	17		66,705	25		12.2%	1.8%
15	09/14/04	9	491,001	1,133	14	17	09/14/04	9	481,872	1,207	14	17		(9,129)	74		-1.9%	6.5%
16	10/28/04	10	409,628	727	28	20	10/21/04	10	411,133	718	21	20		1,505	(9)		0.4%	-1.3%
17	11/30/04	11	425,352	864	30	18	11/24/04	11	438,565	809	24	20		13,213	(55)		3.1%	-6.4%
18	12/22/04	12	501,829	957	22	19	12/13/04	12	514,614	946	13	20		12,785	(11)		2.5%	-1.2%
19	Year	2004	5,707,432	1,344			Year	2004	5,868,287	1,374			L	160,855	30		2.8%	2.3%
20	Load Factor			48.34%			Load Factor			48.61%								
21					. .													
22				oads with	Custo	mer Anı	nualization and											
23 24	MPS-System		ad (Actual) m Actual Peal						d (WN w/Cust n Normal Peak		Load A	dj.)	ĽÉ	(Normal)		1.Ad	j, Large Load % Ac	
24	DatePeak	Month	NEL MWh	K PeakMW	Dav	Hour	DatePeak		NEL MWh	PeakMW	Dav	Hour	-	NEL Mwh	PeakMW		% AC	PeakMW
25	01/05/04	10101111	513.600	951	Day 5	19	01/30/04	1	529.291	993	30	HUUI 19	-	15.691	42		3.1%	4.4%
27	02/02/04	2	459,190	890	2	19	02/13/04	2	462,430	869	13	19		3.240	(21)		0.7%	-2.3%
28	03/04/04	3	427,767	735	4	19	03/22/04	3	445,702	798	22	20		17,935	63		4.2%	8.6%
29	04/19/04	4	386.359	682	19	21	04/01/04	4	396.001	703	1	21		9.642	21		2.5%	3.1%
30	05/20/04	5	468,836	1.064	20	18	05/21/04	5	438,732	1.030	21	18		(30,104)	(34)		-6.4%	-3.2%
31	06/14/04	6	497,125	1,171	14	17	06/08/04	6	548,167	1.314	8	18		51.042	143		10.3%	12.2%
32	07/13/04	7	581,011	1,344	13	17	07/13/04	7	655,336	1,400	13	17		74,325	56		12.8%	4.2%
33	08/03/04	8	545,734	1,335	3	17	08/03/04	8	624,210	1,386	3	17		78,476	51		14.4%	3.8%
34	09/14/04	9	491,001	1,133	14	17	09/14/04	9	493,088	1,235	14	17		2,087	102		0.4%	9.0%
35	10/28/04	10	409,628	727	28	20	10/21/04	10	420,118	733	21	20		10,490	6		2.6%	0.9%
36	11/30/04	11	425,352	864	30	18	11/24/04	11	446,917	824	24	20		21,565	(40)		5.1%	-4.6%
37	12/22/04	12	501,829	957	22	19	12/13/04	12	524,360	964	13	20		22,531	7		4.5%	0.7%
38	Year	2004	5,707,432	1,344			Year	2004	5,984,353	1,400			I [276,921	56		4.9%	4.2%
39	Load Factor			48.34%			Load Factor			48.65%								
40	Change (L38	3-L19)	0	0			Change (L3	3-L19)	116,066	26			I C	116,066	26	[2.0%	1.9%

т

Schedule ELW-6

1	в	С	D	Е	F	G	н	1	J	к	L	м	Ν	0	Р	Q
2	Aquila Ne	tworks-M	lissouri, St.	Joseph	Light &	& Pov	ver (S.	JD)								
3	2004 Actua	al and Wea	ther Normal	ized Syste	em Hou	rlv La	ads									

3	2004 Actual	and we	ather Normal	lized Syster	n nou	riy Load	15					
4	SJD-System	Net Loa	ad (Actual)				SJD-System	Net Loa	d (Weather No	ormal, MCI 1	971-00)
5	Coincident w	ith Syste	m Actual Pea	ık			Coincident wi	th Syster	n Normal Peak	ζ.		
6	DatePeak	Month	NEL_MWh	PeakMW	Day	Hour	DatePeak	Month	NEL_MWh	PeakMW	Day	H
7	01/06/04	1	190,393	357	6	9	01/30/04	1	192,772	366	30	
8	02/13/04	2	170,388	333	13	8	02/13/04	2	167,585	327	13	1
9	03/12/04	3	154,480	268	12	8	03/16/04	3	158,690	294	16	1
10	04/01/04	4	136,128	242	1	8	04/01/04	4	137,205	243	1	1
11	05/28/04	5	153,318	332	28	16	05/21/04	5	141,435	305	21	1
12	06/07/04	6	159,829	337	7	17	06/08/04	6	171,055	370	8	1
13	07/20/04	7	181,798	398	20	17	07/13/04	7	196,794	393	13	1
14	08/03/04	8	172,487	399	3	17	08/03/04	8	189,121	388	3	1
15	09/14/04	9	159,117	341	14	17	09/14/04	9	157,041	334	14	1
16	10/29/04	10	142,432	240	29	14	10/27/04	10	144,049	246	27	1
17	11/29/04	11	149,879	284	29	18	11/09/04	11	155,761	284	9	1
18	12/22/04	12	178,995	329	22	18	12/13/04	12	184,298	343	13	
19	Year	2004	1,949,244	398			Year	2004	1,995,806	393		
20	Load Factor	r		55.76%			Load Factor			57.79%		

SJD-Weathe	r Normal A	dju	stment (WNA)
(Normal-	Actual)		WNA %	Actual
NEL_Mwh	PeakMW		NEL_Mwh	PeakMW
2,379	9		1.2%	2.6%
(2,803)	(6)		-1.6%	-1.8%
4,210	26		2.7%	9.7%
1,077	1		0.8%	0.2%
(11,883)	(27)		-7.8%	-8.1%
11,226	33		7.0%	9.8%
14,996	(5)		8.2%	-1.2%
16,634	(11)		9.6%	-2.8%
(2,076)	(7)		-1.3%	-2.0%
1,617	6		1.1%	2.3%
5,882	0		3.9%	0.0%
5,303	14		3.0%	4.4%
46,562	(5)		2.4%	-1.2%

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9	real	2004	1,949,244	390			rear	2004	1,995,600	292		
0	Load Factor	r		55.76%			Load Factor			57.79%		
	2004 Scaled	WN Sys	stem Hourly I	oads with	Custo	mer An	nualization and	Large Lo	ad Adjustme	nts		
	SJD-System	Net Loa	ad (Actual)				SJD-System	Net Load	d (WN w/Cust/	Ann/Large I	oad A	dj.)
	Coincident w	ith Syste	m Actual Pea	ık			Coincident wi	th Systen	n Normal Peak			
	DatePeak	Month	NEL_MWh	PeakMW	Day	Hour	DatePeak	Month	NEL_MWh	PeakMW	Day	Hou
	01/06/04	1	190,393	357	6	9	01/30/04	1	200,690	381	30	6
	02/13/04	2	170,388	333	13	8	02/13/04	2	175,056	341	13	8
	03/12/04	3	154,480	268	12	8	03/16/04	3	166,346	308	16	8
	04/01/04	4	136,128	242	1	8	04/01/04	4	144,444	255	1	19
	05/28/04	5	153,318	332	28	16	05/21/04	5	148,815	321	21	17
	06/07/04	6	159,829	337	7	17	06/08/04	6	178,380	386	8	17
	07/20/04	7	181,798	398	20	17	07/13/04	7	204,702	410	13	17
	08/03/04	8	172,487	399	3	17	08/03/04	8	197,027	404	3	17
	09/14/04	9	159,117	341	14	17	09/14/04	9	164,666	350	14	17
	10/29/04	10	142,432	240	29	14	10/27/04	10	151,529	258	27	19
	11/29/04	11	149,879	284	29	18	11/09/04	11	162,967	297	9	8
	12/22/04	12	178,995	329	22	18	12/13/04	12	192,022	358	13	ç
	Year	2004	1,949,244	398			Year	2004	2,086,643	410		
	Load Factor	r		55.76%			Load Factor	-		57.95%		
	Change (L3	8-L19)	0	0			Change (L38	-L19)	90,837	17		

Coincident w	ith Syster	m Normal Peal	<		
DatePeak	Month	NEL_MWh	PeakMW	Day	Hour
01/30/04	1	200,690	381	30	8
02/13/04	2	175,056	341	13	8
03/16/04	3	166,346	308	16	8
04/01/04	4	144,444	255	1	19
05/21/04	5	148,815	321	21	17
06/08/04	6	178,380	386	8	17
07/13/04	7	204,702	410	13	17
08/03/04	8	197,027	404	3	17
09/14/04	9	164,666	350	14	17
10/27/04	10	151,529	258	27	19
11/09/04	11	162,967	297	9	8
12/13/04	12	192,022	358	13	9
Year	2004	2,086,643	410		
Load Factor			57.95%		
Change (L38	3-L19)	90,837	17		

SJD-WN Ad	j, Cust.Ann	.Ad	i, Large Load	Adj.
(Normal-	Actual)		% Ac	tual
NEL_Mwh	PeakMW		NEL_Mwh	PeakMW
10,297	24		5.4%	6.8%
4,668	8		2.7%	2.6%
11,866	40		7.7%	15.0%
8,316	13		6.1%	5.5%
(4,503)	(11)		-2.9%	-3.3%
18,551	49		11.6%	14.5%
22,904	12		12.6%	3.0%
24,540	5		14.2%	1.2%
5,549	9		3.5%	2.7%
9,097	18		6.4%	7.6%
13,088	13		8.7%	4.7%
13,027	29		7.3%	8.8%
137,399	12		7.0%	3.0%
90,837	17		4.7%	4.2%

BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the matter of Aquila, Inc. d/b/a Aquila
Networks-MPS and Aquila Networks-L&P,
for authority to file tariffs increasing electric
rates for the service provided to customers in
the Aquila Networks-MPS and Aquila
Networks-L&P area

Case No. ER-____

County of Jackson)	
)	SS
State of Missouri)	

AFFIDAVIT OF ERIC L. WATKINS

Eric L. Watkins, being first duly sworn, deposes and says that he is the witness who sponsors the accompanying testimony entitled "Direct Testimony of Eric L. Watkins;" that said testimony was prepared by him and under his direction and supervision; that if inquiries were made as to the facts in said testimony and schedules, he would respond as therein set forth; and that the aforesaid testimony and schedules are true and correct to the best of his knowledge, information, and belief.

Eric L. Watkins

Subscribed and sworn to before me this $\frac{18}{18}$ day of $\frac{MAY}{2005}$.

Jerry a Notary Public

Terry D. Lutes

My Commission expires:

8-20-2008



TERRY D. LUTES Jackson County My Commission Expires August 20, 2008