EO-2002-384Aquila NetworksNovember 12, 2003Residential:Go to two residential rates, based on MO 860 & MO870, with the exception of TOU.Aim to have customer charge and the final block the same, with the early blocks creating the revenue difference between divisions.

L&P	\$	MPS	\$	Comments
General 110 MO910	<u>33K</u>	NSH MO860	<u>147K</u>	
Cust	5.59	Cust	6.64	
S	.064	S 0-600	.0693	
		S –1000	.0713	
		S –up	.0749	
W 0-650	.057	W 0-600	.0693	
W –up	.042	W –up	.0474	
Space Heat 120 MO920	<u>14K</u>	Space Heat MO870	<u>40K</u>	
Cust	5.59	Cust	6.64	
S	.064	S 0-600	.0693	
		S –1000	.0713	
		S –up	.0749	
W 0-1000	.042	W 0-600	.0693	
W –up	.030	W –1000	.0374	
· ·		W –up	.0310	
Water Heat 135 MO913	<u>7.1K</u>			
Cust	5.59			
S	.064			
W 0-650	.053			
W –up	.035			
·				
Separate Meter, Space / Water Heating 621 MO922, Frozen	<u>103</u>			
Service Charge	2.95			
S	.065			
W	.035			
Other Residential 150 MO915	<u>1.5K</u>			
Cust	6.11			
S	.093			
W	.068			
TOU MO Add to base res bill	<u>0</u>	TOD MO600	<u>0</u>	
Metering	15.00	Cust	11.76	
S On Peak	.027	S On Peak	.1265	
		S Shoulder	.0703	
S Off Peak	014	S Off Peak	.0422	
W On Peak	.003	W On Peak	.0812	
W Off Peak	002	W Off Peak	.0324	

S = Jun – Sep

W = Oct - May

EO-2002-384Aquila NetworksNovember 12, 2003Small General Service:Use a blocked hours of use rate, except for non-demand and TOU rates. Aim to have
customer charges, demand charges, and the final blocks the same, with the initial blocks creating the revenue
difference between divisions. The base / seasonal hours use structure is too complex.

L&P	\$	MPS	\$	Comments
Limited Demand 201	<u>3.5K</u>	No kW MO710 30 kW	<u>13K</u>	Mimic residential blocking for non-demand rate.
MO930 (& Space Heat		max or < 5400		
221 MO932) 40 kW		kWh/month		
max or < 300 kWh/mon				
Cust	11.25	Cust	11.22	
S	.086	S	.0831	
W	.062	W Base	.0689	
		W Seas.	.0267	
				Temporary Service Add a non-demand
				temporary service rate for construction.
Company 044 MO024		Demond MO744	401/	
General 211 MO931	<u>1.4K</u>		<u>12K</u>	
		Secondary, 100 KW		
		Cust	11.00	
Equilities k/A/ to 10	22.46		2.22	
	23.40		3.22	
	1.71		3.22	
			2.39	
	070	S Doop 0 180 bu	0.00	
	.072	S Dase 0-100 Hu	.0052	
	.053	S Base – 300 Mu	.0470	
			.0300	
		S Seas. 0-100 Hu	.0052	
			.0470	
M 150 k k	040	W Roso 0 180 bu	.0300	
	038	W Base 360 bu	0460	
	.000	W Base _up bu	0380	
		W Seas 0-180 bu	0267	
		W Seas _360 bu	0267	
		W Seas _up bu	0267	
			.0207	
General – Snace Heat	599			
222 MO933	<u></u>			
Facilities kW to 3	11.25			
Facilities kW –up	1.53			
S 150 kWh/kW	.072		1	
S –up kWh/kW	.053			
W 150 kWh/kW	.049			
W –up kWh/kW	.029			
·				
		Demand MO716	<u>6</u>	
		Primary, 100 kW max	_	
		Cust	11.22	
		S Base kW	2.23	
		S Seas. kW	2.23	
		W Base kW	1.35	
		W Seas. kW	0.00	
		S Base 0-180 hu	.0636	
		S Base –360 hu	.0467	
		S Base –up hu	.0371	

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		S Seas. 0-180 hu	.0636	
		S Seas. –360 hu	.0467	
		S Seas. –up hu	.0371	
		W Base 0-180 hu	.0543	
		W Base –360 hu	.0457	
		W Base –up hu	.0371	
		W Seas. 0-180 hu	.0260	
		W Seas. –360 hu	.0260	
		W Seas. –up hu	.0260	
TOU MO	0	TOD MO610	<u>0</u>	Offer a single, restructured, TOU rate.
Add to base bill		1 phase, no kW		
Metering	15.00	Cust	15.80	
S On Peak	.022	S On Peak	.1323	
		S Shoulder	.0735	
S Off Peak	015	S Off Peak	.0441	
W On Peak	.002	W On Peak	.0858	
W Off Peak	002	W Off Peak	.0343	
		TOD MO620	<u>0</u>	Offer a single, restructured, TOU rate.
		1 phase, kW		
		Cust	15.80	
		S Peak kW	6.76	
		W Peak kW	0.00	
		S On Peak	.0809	
		S Shoulder	.0449	
		S Off Peak	.0270	
		W On Peak	.0674	
		W Off Peak	.0270	
Separate Meter,	<u>110</u>			
Space / Water Heating 641 MO941				
frozen, any non-res				
Service Charge	5.78			
S	.086			
W	.035			

hu = hours of use

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Large General Service: Use a blocked hours of use rate, except for TOU rates. Aim to have customer charges, demand charges, and the final blocks the same, with the early blocks creating the revenue difference between divisions. The base / seasonal hours use structure is discontinuous between SGS and LPS.

L&P	\$	MPS	\$	Comments
LGS 311 MO940	<u>1.1K</u>	LGS MO720	1.0K	
Secondary		Secondary, 100 to 500		
		kW		
		Cust	43.70	
Facilities kW to 40	75.86	S Base kW	3.23	
Facilities kW –up	1.02	S Seas. kW	3.23	
S kW	2.60			
W kW <= S kW	1.23	W Base kW	2.24	
W kW > S kW	0.20	W Seas. kW	0.00	
S 200 kWh/kW	.049	S Base 0-180 hu	.0609	
S –up kWh/kW	.033	S Base –360 hu	.0445	
		S Base –up hu	.0355	
		S Seas. 0-180 hu	.0609	
		S Seas. –360 hu	.0445	
		S Seas. –up hu	.0355	
W 200 kWh/kW	.034	W Base 0-180 hu	.0445	
W –up kWh/kW	.029	W Base –360 hu	.0374	
•		W Base –up hu	.0355	
		W Seas. 0-180 hu	.0267	
		W Seas. –360 hu	.0267	
		W Seas. –up hu	.0267	
LGS 311 MO940	?	LGS MO725	22	
Primary	<u> </u>	Primary, 100 to 500 kW		
Facilities kW to 40	53.46	Cust	43.70	
Facilities kW –up	0.46	S Base kW	2.24	
SkW	2.60	S Seas, kW	2.24	
W kW <= S kW	1.23	W Base kW	1.35	
W kW > S kW	0.20	W Seas kW	0.00	
S 200 kWh/kW	049	S Base 0-180 hu	0593	
S –up kWh/kW	033	S Base –360 hu	0435	
		S Base –up hu	0346	
		S Seas 0-180 bu	0593	
		S Seas -360 hu	0435	
		S Seas -up bu	0346	
W/ 200 kWb/kW/	034	W Base 0-180 bu	0435	
	029	W Base -360 bu	0366	
	.025	W Base – up bu	0346	
		W Seas 0-180 bu	0260	
		W Seas _360 bu	0260	
		W Seas up bu	0200	
			.0200	
Metered at then				
reduce kW and kWh by				
Primary	1 5%		-	
Substation	2.5%			
Transmission	2.0%			
	5.0%			
	•		•	Offer a single restructured TOU rate
Add to base bill	<u> </u>	3 nhase Secondary	<u> </u>	oner a single, restructured, roo late.
Metering	15.00	Cust	52.80	
metering	10.00	Ousi	JZ.08	

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		S Peak kW	6.76	
		W Peak kW	0.00	
S On Peak	.020	S On Peak	.0809	
		S Shoulder	.0449	
S Off Peak	012	S Off Peak	.0270	
W On Peak	.002	W On Peak	.0674	
W Off Peak	002	W Off Peak	.0270	
		TOD MO640	<u>0</u>	Offer a single, restructured, TOU rate.
		3 phase, Primary		
		Cust	52.89	
		S Peak kW	4.61	
		W Peak kW	0.00	
		S On Peak	.0788	
		S Shoulder	.0438	
		S Off Peak	.0263	
		W On Peak	.0657	
		W Off Peak	.0263	

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Large Power Service:	Use modr	ried L&P structure.	•	0
	\$		\$	Comments
LPS 411 MO944	<u>56</u>	LPS MU/30	98	
Secondary, 500 KW		Secondary, 500 KW		
		Cust	110 2/	
Eacilities kW to 500	640.86	S Base kW	6.48	
Facilities kW up	1 00		6.48	
	7.34	5 56d5. KW	0.40	
$ W k W \leq S k W $	3 13	W Base kW	1 71	
W kW > S kW	0.10	W Seas kW	0.00	
S On Peak	0.20	S Base 0-180 bu	0517	
S Off Peak	024	S Base –360 hu	0340	
	.021	S Base –up hu	.0272	
_		S Seas, 0-180 hu	.0517	
_		S Seas. –360 hu	.0340	
		S Seas. –up hu	.0272	
W On Peak	.028	W Base 0-180 hu	.0343	
W Off Peak	.021	W Base –360 hu	.0308	
		W Base –up hu	.0272	
		W Seas. 0-180 hu	.0267	
		W Seas. –360 hu	.0267	
		W Seas. –up hu	.0267	
		•		
LPS 411 MO944	?	LPS MO735 Primary,	31	
Primary, 500 kW and		500 kW and up		
up				
		Cust	118.34	
Facilities kW to 500	360.86	S Base kW	5.40	
Facilities kW –up	0.44	S Seas. kW	5.40	
S kW	7.34	W Base kW	3.46	
W kW <= S kW	3.13	W Seas. kW	0.00	
W kW > S kW	0.20	S Base 0-180 hu	.0505	
S On Peak	.034	S Base –360 hu	.0330	
S Off Peak	.024	S Base –up hu	.0266	
		S Seas. 0-180 hu	.0505	
		S Seas. –360 hu	.0330	
		S Seas. –up hu	.0266	
		W Base 0-180 hu	.0335	
W On Peak	.028	W Base –360 hu	.0300	
W Off Peak	.021	W Base –up hu	.0266	
		W Seas. 0-180 hu	.0260	
		W Seas. –360 hu	.0260	
		W Seas. –up hu	.0260	
		Reactive	0.27	
		Modine MO919	1	
		KWh 0-1000	.0618	
		KVVN -3000	.0551	
		KVVN –10,000	.0486	
		KVVN -50,000	.0424	
		Kvvn >50,000	.0389	
LPS MU Metered at				
, then reduce by	1 50/			
Philliary	1.5%		1	

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Substation	2.5%			
Transmission	3.0%			
		TES MO650	<u>1</u>	
		Secondary, frozen		
		Cust	127.52	
		S Peak kW	6.48	
		W Peak kW	4.74	
		S On Peak	.0515	
		S Shoulder	.0289	
		S Off Peak	.0260	
		W On Peak	.0289	
		W Off Peak	.0260	
		TES MO660	<u>0</u>	
		Primary, frozen		
		Cust	127.52	
		S Peak kW	5.40	
		W Peak kW	3.46	
		S On Peak	.0515	
		S Shoulder	.0289	
		S Off Peak	.0260	
		W On Peak	.0289	
		W Off Peak	.0260	

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Economic Development Rider:	Simplify the MPS structure.

L&P	\$	MPS	\$	Comments
500 kW min., 10 MW	5	200 kW min.,	<u>25</u>	
max.		Load Factor @		
Year 1, >50% LF	30%	Year 1, 50-54%	25%	
Year 2	25%	Year 2	20%	
Year 3	20%	Year 3	15%	
Year 4	15%	Year 4	10%	
Year 5	10%	Year 5	5%	
		Year 1, 55-59%	27.5%	
		Year 2	22.5%	
		Year 3	17.5%	
		Year 4	12.5%	
		Year 5	7.5%	
		Year 1, >60%	30%	
		Year 2	25%	
		Year 3	20%	
		Year 4	15%	
		Year 5	10%	
		Year 1, >50%, w/o 5 yr	15%	
		excl. contract		
		Year 2	15%	
		Year 3	10%	

Curtailment Rider: Revise MPS if it can be as effective as L&P's.

L&P	\$	MPS	\$	Comments		
200 kW min., credit 12	?	250 kW min., credit 4	0			
months / year		months / year				
Credit / kW	1.98	Credit / kW	4.69			
Penalty / kW	24.00	1 st Penalty / kW	14.06			
		Add. Pen. / kW	18.74			
		Res. Marg. Pen. / kW	3.92			
3 yr annual bonus / kW	3.22					
5 yr annual bonus / kW	6.43					

Supplementary Rates:

L&P	\$ MPS	\$	Comments
VLR	RTP, SCR, VLR	<u>9 RTP</u>	Modify RTP to account for contrary
			behavior. Consider eliminating RTP.
Municipal	Municipal		Modify for alternate recovery, for other
Underground Cost	Underground Cost		mandated expenses.
Recovery Rider	Recovery Rider		
Reserve Distribution	Reserve Distribution		Do we want this? See AmerenUE Tariff.
Capacity Rider	Capacity Rider		

Schools & Churches: Group the L&P with MO930. See if restructured TOU will address any unique load shape that truly exists in the class.

L&P	\$	MPS	\$	Comments
C&S 261 MO934	<u>312</u>	S&C MO740	<u>1.0K</u>	
		Secondary, frozen		
Cust	11.25	Cust	11.44	
S	.086	S	.0734	
W	.062	W Base	.0609	
		W Seas.	.0313	

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	S&C MO745 Primary, frozen	1	
	Cust	11.44	
	S	.0715	
	W Base	.0594	
	W Seas.	.0305	

Other: See if restructured TOU will address any unique load shape that truly exists in these rates.

L&P	\$ MPS	\$	Comments
	Muni Water Pumping	198	
	& Special Street		
	Lighting MO800		
	Frozen		
	kWh first 150	8.84	
	KWh > 150	.0587	
	Muni Park & Rec	<u>220</u>	
	MO810		
	1 Phase, frozen		
	kWh (\$7.09 min.)	.0746	
	Muni Park & Rec	<u>91</u>	
	MO811		
	3 Phase, frozen		
	kWh (\$23.66 min.)	.0746	

Lights:

L&P	\$ MPS	\$ Comments
Private Area, Street,	Private Area, Street	Provide options where we own / maintain
Signal		the light, and energy only for all other lights.

Standby, Supplementary, or Isolated Generating Plant:

L&P	\$	MPS	\$	Comments
Standby or Supplementary 770	<u>0</u>	Special Isolated Generating Plant	<u>0</u>	
Reserved Capacity / kW (40 kW min.)	6.15	Capacity Charge / kW (\$5,377.07 min.)	5.40	
		KWh	.0383	
		Reactive	0.27	

Qualifying Facility / Cogeneration: Simplify rate option.

L&P	\$	MPS	\$	Comments
Qualifying Facility 775	0	Cogeneration MO700	<u>0</u>	
		Cust	4.50	
S On Peak	.0308	KWh	.0238	
S Off Peak	.0113			
Wi On Peak	.0199			
Wi Off Peak	.0101			
Sh On Peak	.0222			
Sh Off Peak	.0127			
Net Metering due by		Net Metering due by		
8/28/03		8/28/03		
Avoided Cost		Avoided Cost		
Retail Rate for Charges		Retail Rate for Charges		

Wi = Nov – Feb Sh = Oct, Mar – May