



Aquila

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Omaha, NE 68102
402-221-2091

FILED

APR 16 2004

April 15, 2004

Missouri Public
Service Commission

Mr. Dale Hardy Roberts, Secretary, Chief Regulatory Law Judge
Missouri Public Service Commission
200 Madison Street
Jefferson City, MO 65101

Dear Mr. Roberts:

Enclosed are an original and three copies of PSC MO. No. 5, 28th Revised Sheet No. 43, 31st Revised Sheet No. 44 and 21st Revised Sheet No. 44.1 reflecting a change in the Purchased Gas Adjustment of the Missouri Public Service Purchased Gas Adjustment Clause.

Enclosures 1, 2 and 3 reflect the Purchased Gas Adjustment calculations for the Southern System, Northern System and Eastern System. Each PGA has been developed using NYMEX pricing weighted for the months of April 2004 through October 2004, and the "Inside FERC's Gas Market Report" posted price for March 2004. The tariff rate changes for the Southern System are based on the Southern Star Central Gas Pipeline, Inc. filings of their FERC Gas Tariffs, Original Sheet No. 10, Original Sheet No. 11 and First Revised Sheet No. 12. The tariff rate changes for the Northern System and Eastern System are based on the Panhandle Eastern Pipe Line Company filings of their FERC Gas Tariffs, First Revised Sheet No. 5, First Revised Sheet No. 8, First Revised Sheet No. 9, First Revised Sheet No. 10, First Revised Sheet No. 11 and Original Sheet No. 19.

Enclosure 4 reflects the Weighted Average Cost of Gas (WACOG) for the last three years, April through October.

Enclosures 5, 6 and 7 reflect the estimated ACA through August 2004 for the Southern, Northern and Eastern Systems.

Enclosures 8, 9 and 10 reflect the estimated Deferred Carrying Cost Balance through August 2004 for the Southern, Northern and Eastern Systems.

The seasonal revenue impact or comparison to the same period last year, for the gas cost recovery portion of the rates is a decrease in the amount of \$1,517,856 or 19.20% for the Southern System, a decrease in the amount of \$351,522 or 11.23% for the Northern System and an increase in the amount of \$80,354 or 8.87% for the Eastern System as determined on Enclosures 11, 12 and 13 respectively.

Aquila Networks respectfully requests that the rates proposed in this filing become effective with volumes taken on and after April 30, 2004.

Sincerely,

A handwritten signature in black ink, appearing to read "Amy Winkler", with a stylized, flowing script.

Amy Winkler
Regulatory Analyst

Enclosures

cc: Office of the Public Counsel

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	<u>5</u>	<u>28th</u>	(Original)	SHEET NO.	<u>43</u>
			(Revised)		
Cancelling P.S.C. MO. No.	<u>5</u>	<u>27th</u>	(Original)	SHEET NO.	<u>43</u>
			(Revised)		

Aquila Inc., d/b/a Aquila Networks – MPS
KANSAS CITY, MO 64138

FOR: Southern System

PURCHASED GAS ADJUSTMENT CLAUSE (CONTINUED)
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Adjustment Statement (Southern System)

As provided in this Purchased Gas Adjustment Clause, the following adjustment(s) will be made to the applicable rate schedules:

	Rate Schedule <u>GNG</u>	Rate Schedule <u>LVF</u>	Rate Schedule <u>LVI</u>
Regular PGA	\$0.62280	\$0.62280	\$0.57644
Actual Cost Adjustment	\$0.02135	\$0.02135	\$(0.00777)
Refunds	\$(0.00158)	\$(0.00158)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$0.64257	\$0.64257	\$0.56867

The TOP and TC Factors, as provided in Sheets 39 through 40, shall also apply to all Ccf delivered to transportation customers on Missouri Public Service's Southern System except as provided for on Sheet No. 20.

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.	<u>5</u>	<u>31st</u>	(Original)	SHEET NO.	<u>44</u>
			(Revised)		
Cancelling P.S.C. MO. No.	<u>5</u>	<u>30th</u>	(Original)	SHEET NO.	<u>44</u>
			(Revised)		

Aquila Inc., d/b/a Aquila Networks – MPS
KANSAS CITY, MO 64138

FOR: Northern System

PURCHASED GAS ADJUSTMENT CLAUSE (CONTINUED)
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Adjustment Statement (Northern System)

As provided in this Purchased Gas Adjustment Clause, the following adjustment(s) will be made to the applicable rate schedules:

	Rate Schedule <u>GNG</u>	Rate Schedule <u>LVF</u>	Rate Schedule <u>LVI</u>
Regular PGA	\$0.68974	\$0.68974	\$0.58616
Actual Cost Adjustment	\$0.03969	\$0.03969	\$ -0-
Refunds	\$(0.00144)	\$(0.00144)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$0.72799	\$0.72799	\$0.58616

The TOP and TC Factors, as provided in Sheets 39 through 40, shall also apply to all Ccf delivered to transportation customers on Missouri Public Service's Northern System except as provided for on Sheet No. 20.

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No. 5 21st (Original) SHEET NO. 44.1Cancelling P.S.C. MO. No. 5 20th (Revised)
(Original) SHEET NO. 44.1
(Revised)**Aquila Inc., d/b/a Aquila Networks – MPS**
KANSAS CITY, MO 64138

FOR: Eastern System

PURCHASED GAS ADJUSTMENT CLAUSE
(CONTINUED)Adjustment Statement (Eastern System)

As provided in this Purchased Gas Adjustment Clause, the following adjustment(s) will be made to the applicable rate schedules:

	Rate Schedule <u>GNG</u>	Rate Schedule <u>LVF</u>	Rate Schedule <u>LVI</u>
Regular PGA	\$0.90831	\$0.90831	\$0.80378
Actual Cost Adjustment	\$0.09190	\$0.09190	\$ -0-
Refunds	\$ -0-	\$ -0-	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$1.00021	\$1.00021	\$0.80378

The TOP and TC Factors, as provided in Sheets 39 through 40, shall also apply to all Ccf delivered to transportation customers on Missouri Public Service's Eastern System except as provided for on Sheet No. 20.

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Southern System Annualized Gas Cost Calculation
To Reflect Current Southern Star & Spot Market Rates

Enclosure 1

Page 1 of 4

FIRM	Annual Volume	Monthly Capacity Reserved	No. of Mth Reserved	Tariff Rate	Annual Cost
<u>Southern Star Natural Gas</u>					
TSS					
No-Notice Fee		39,618	12	\$0.0154	\$7,321
Reservation - FSS Deliverability		25,412	12	\$0.5001	\$152,502
Reservation - FTS-Production		13,841	12	\$5.6118	\$932,075
Reservation - FTS-Market		39,618	12	\$2.8014	\$1,331,830
GRI		39,618	12	\$0.0500	\$23,771
FTS					
Production - Reservation		11,845	12	\$5.6118	\$797,661
Production - Balancing		11,845	12	\$0.1604	\$22,799
Market - Reservation		10,491	12	\$2.8014	\$352,674
Market - Balancing		10,491	12	\$0.1604	\$20,193
Market - GRI		10,491	12	\$0.0500	\$6,295
GSR Costs					\$77,692
Spot Market Purchases	3,896,019			\$5.1554	\$20,085,649
Total Annual Cost					<u>\$23,810,462</u>
Sales Volume at Burnertip	3,823,123				
Cost per MCF at Burnertip					<u>\$6.2280</u>

Highest WACOG (Summer Period)	Apr 01 - Oct 01	Apr 02 - Oct 02	Apr 03 - Oct 03	Average WACOG
	\$3.9966	\$3.1214	\$4.8298	\$3.9826
Highest Avg WACOG-Summer Period (Avg of Summer seasons with the highest of 3 averages)				\$4.4062
				March 2004 Gas Commodity Costs \$4.8003

INTERRUPTIBLE

<u>Southern Star Natural Gas</u>			
ITS-P			@150%
Commodity	126,414		\$0.2492 \$31,496
ITS-M			@150%
Commodity	125,491		\$0.1289 \$16,170
Spot Market Price Per MCF	128,443		\$5.1554 \$662,180
Total Annual Cost			<u>\$709,846</u>
Sales Volume at Burnertip	123,143		
Cost per MCF at Burnertip			<u>\$5.7644</u>

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Southern System Gas Cost Inputs

Enclosure 1

Page 2 of 4

MPS Line Loss	1.871%
Annual Burnertip Sales	3,946,266

SSTAR Rates

Firm Rates

TSS

No-Notice Fee	\$0.0154
Reservation - FSS Deliverability	\$0.5001
Reservation - FSS Capacity	\$0.0285
Reservation - FTS-P	\$5.6118
Reservation - FTS-M	\$2.8014
GRI	\$0.0500

FTS

Production - Reservation	\$5.6118
Production - Balancing	\$0.1604
Market - Reservation	\$2.8014
Market - Balancing	\$0.1604
Market - GRI	\$0.0500

Production

Commodity - FTS-P	\$0.0124
GRI Funding Unit - Commodity - Others	\$0.0040
FERC Annual Charge Adjustment	<u>\$0.0021</u>
Production Field Zone	\$0.0185

Commodity - FTS-M	\$0.0061
GRI Funding Unit - Commodity - Others	\$0.0040
FERC Annual Charge Adjustment	<u>\$0.0021</u>
Market Zone	\$0.0122

Injection/Withdrawal - FSS	\$0.0122
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Interruptible Rates

ITS-P

Commodity-Summer	\$0.1600
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ITS-M

Commodity-Summer	\$0.0798
GRI Funding Unit - Commodity - Others	\$0.0040
FERC Annual Charge Adjustment	\$0.0021

SSTAR Production Area Loss	1.58%
SSTAR Market Area Loss	0.73%
SSTAR Storage Loss	3.44%

Note: From FERC Gas Tariff: Original Sheet No. 10 Effective 11/01/03, Original Sheet No. 11 Effective 11/01/03, and First Revised Sheet No. 12 Effective 01/01/04.

Calculated Inputs

	<u>Firm</u>	<u>Storage</u>	<u>Total Firm</u>	<u>Interruptible</u>	<u>Total System</u>
Annual Throughput at Burnertip Per GR-93-172	2,796,691	1,026,432	3,823,123	123,143	3,946,266
Annual Throughput at Citygate	2,850,016	1,046,003	3,896,019	125,491	4,021,508
Annual Throughput at Production Area	2,841,400	1,083,268	3,924,668	126,414	4,051,082
Annual Throughput at Wellhead	2,887,015	1,100,658	3,987,673	128,443	4,116,116

Southern System
Current Gas Cost Calculation

	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Totals
SUMMARY OF COMMODITY COSTS								
Sales Requirements	323,183	143,630	97,329	76,976	69,550	75,984	113,113	899,765
SSTAR Market Area Loss	0.73%	0.73%	0.73%	0.73%	0.73%	0.73%	0.73%	
SSTAR Production Area Loss	1.58%	1.58%	1.58%	1.58%	1.58%	1.58%	1.58%	
Total Supply - Fuel Loss	330,786	147,009	99,619	78,787	71,186	77,772	115,774	920,933
Storage Injection	115,367	122,914	122,914	122,914	115,367	92,725	62,535	754,736
Storage Injection Loss	3.44%	3.44%	3.44%	3.44%	3.44%	3.44%	3.44%	
Total Storage - Fuel Loss	119,477	127,293	127,293	127,293	119,477	96,028	64,763	
(Storage injection is noted on spreadsheet but not included in commodity cost calculation because MPS does not pay for storage until it is withdrawn in the winter months.)								
Purchase Requirements	330,786	147,009	99,619	78,787	71,186	77,772	115,774	920,933
Contracted Fixed Price Supply	0	0	0	0	0	0	0	0
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0
(Contracted Fixed Price Supply only applies in the winter months.)								
Contracted Call Options	0	0	0	0	0	0	0	0
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0
Contracted Other Options	0	0	0	0	0	0	0	0
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0
Contracted Seasonal Price Supply	0	0	0	0	0	0	0	0
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0
Total Supply	330,786	147,009	99,619	78,787	71,186	77,772	115,774	920,933
Forecasted Price (NYMEX-WNG Basis)*	\$ 5.260	\$ 5.325	\$ 5.380	\$ 5.410	\$ 5.430	\$ 5.410	\$ 5.420	
Total Cost	\$ 1,739,934	\$ 782,823	\$ 535,950	\$ 426,238	\$ 386,540	\$ 420,747	\$ 627,495	\$ 4,919,727
Storage Withdrawal	0	0	0	0	0	0	0	0
Storage WACOG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<u>Forecasted Gas Commodity Cost</u>	1,739,934	782,823	535,950	426,238	386,540	420,747	627,495	4,919,727
<u>Forecasted Sales Gas Quantity</u>	330,786	147,009	99,619	78,787	71,186	77,772	115,774	920,933
<u>Gas Cost (Commodity) Dth</u>								\$5.3421

SUMMARY OF UPSTREAM COSTS

Southern Star Natural Gas Pipeline - Firm

FT Commodity (Production Area)	330,786	147,009	99,619	78,787	71,186	77,772	115,774	
FT Commodity (Market Area)	325,559	144,686	98,045	77,542	70,061	76,543	113,945	
Total Units	656,345	291,695	197,664	156,329	141,247	154,315	229,719	1,827,314
Cost/Dth - Production Area	\$0.0185	\$0.0185	\$0.0185	\$0.0185	\$0.0185	\$0.0185	\$0.0185	
Cost/Dth - Market Area	\$0.0122	\$0.0122	\$0.0122	\$0.0122	\$0.0122	\$0.0122	\$0.0122	
Total SSTAR Commodity Costs	\$10,091	\$4,485	\$3,039	\$2,404	\$2,172	\$2,373	\$3,532	\$28,095
<u>Forecasted Northern Upstream Costs</u>	10,091	4,485	3,039	2,404	2,172	2,373	3,532	28,095
<u>Forecasted Firm Sales Quantity</u>	330,786	147,009	99,619	78,787	71,186	77,772	115,774	920,933
<u>Upstream Cost/Dth</u>								\$0.0305

99/00 & 00/01 Purchasing Practice Settlement (Anonymous Letter)

(\$200,000.00)

(\$0.22)

\$ 5.1554

Gas Commodity Cost Calculation

INSIDE FERC MARCH 2004	\$	4.66
SSTAR Market Area Loss		0.73%
SSTAR Production Area Loss		<u>1.58%</u>
 SSTAR Index Adjusted for Fuel	\$	4.7696
 SSTAR Cost/Dth Field Zone		\$0.0185
SSTAR Cost/Dth - Market Zone		<u>\$0.0122</u>
		\$4.8003
 Total Gas Commodity Costs		<div style="border: 1px solid black; padding: 2px;">\$4.8003</div>

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Northern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates

Enclosure 2

Page 1 of 4

FIRM	Annual Volume	Monthly Capacity Reserved	No. Of Mth Reserved	Tariff/ Contracted Rate	Annual Cost
Panhandle Eastern Pipe Line					
Contract 17005					
EFT Reservation Rates					
Field Zone Reservation		9,000	5	\$4.7200	\$212,400
Market Zone Access		17,000	5	\$3.2900	\$279,650
Market Zone Mileage		17,000	5	\$1.8000	\$153,000
Field Zone Reservation		9,000	7	\$4.7200	\$297,360
Market Zone Access		9,000	7	\$3.2900	\$207,270
Market Zone Mileage		9,000	7	\$1.8000	\$113,400
					\$0
					\$0
Contract 17004					
FS Storage	800,000			\$0.4028	\$322,240
					\$234,500
					\$204,015
Spot Market Purchases	1,521,875			\$5.3269	\$8,106,876
Total Annual Cost					<u>\$10,130,711</u>
Sales Volume at Burnertip	1,468,777				
Cost per MCF at Burnertip					<u><u>\$6.8974</u></u>

Highest WACOG (Summer Period)	Apr 01 - Oct 01	Apr 02 - Oct 02	Apr 03 - Oct 03	Average WACOG
	\$4.9259	\$3.0606	\$4.7469	\$4.2445
Highest Avg WACOG-Summer Period (Avg of summer seasons with the highest 3 averages)				\$4.5852
March 2004 Gas Commodity Costs				\$4.8930

INTERRUPTIBLE				
Panhandle Eastern Pipe Line				
IT Interruptible Rates				
			@150%	
Field Zone			\$0.2625	\$0.2625
Market Zone Access			\$0.1637	\$0.1637
Market Zone Mileage			\$0.0999	\$0.0999
GRI Funding Unit			\$0.0060	\$0.0060
ACA Unit Charge			\$0.0032	\$0.0032
TOP Volumetric Surcharge			\$0.0000	\$0.0000
Settlement Surcharges			(\$0.0005)	(\$0.0005)
Canadian Resolution Surcharges			\$0.0000	\$0.0000
Stranded Transportation Cost Surcharge			\$0.0000	\$0.0000
Miscellaneous Stranded Costs Surcharge			\$0.0000	(\$0.0000)
Spot Market Price Per MCF	\$5.3269			\$5.3269
Total Annual Cost				<u>\$5.8616</u>
Sales Volume at Burnertip				
Cost per MCF at Burnertip				<u><u>\$5.8616</u></u>

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Northern System Gas Cost Inputs

Enclosure 2

Page 2 of 4

MPS Line Loss 3.489%
Annual Burnertip Sales 1,468,777

<u>PEPL Rates</u>	<u>Tariff</u>
<u>PEPL EFT Reservation Rates</u>	<u>Rate</u>
Field Zone Reservation	\$4.7200
Market Zone Access	\$3.2900
Market Zone Mileage 201-300 Block	\$1.8000
GRI Funding Unit	\$0.0500
Settlement Surcharges	(\$0.0100)
Canadian Resolution Surcharges	\$0.0000
GSR Surcharge	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0000
<u>PEPL EFT Commodity Rates</u>	
Field Zone Commodity	\$0.0195
Market Zone Access	\$0.0006
Market Zone Mileage 201-300 Block	\$0.0075
GRI Funding Unit	\$0.0040
ACA Unit Charge	\$0.0021
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Total Market Zone Commodity	\$0.0139
<u>PEPL IT Interruptible Rates</u>	
Field Zone	\$0.1750
Market Zone Access	\$0.1091
Market Zone Mileage 201-300 Block	\$0.0666
GRI Funding Unit	\$0.0040
ACA Unit Charge	\$0.0021
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Canadian Resolution Surcharges	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0000
<u>PEPL Storage Rates (Summer)</u>	
Deliverability Charge Field Area	\$3.3500
Capacity Charge Field Area	\$0.4028
PEPL Gathering Loss	0.88%
PEPL Field Zone Loss	1.24%
PEPL Market Zone Loss	1.41%
PEPL Storage Injection Loss (Field Area)	1.44%
PEPL Storage Withdrawal Loss (Field Area)	0.41%

<u>Seasonal Sales Volume @ Burnertip</u>	
Jan	288,860
Feb	265,604
Mar	194,613
Apr	117,502
May	64,871
Jun	44,063
Jul	34,272
Aug	33,047
Sep	36,719
Oct	51,407
Nov	118,726
Dec	219,093
	<u>1,468,777</u>

Note: From FERC Gas Tariff: PEPL First Revised Sheet No. 5 Effective 11/01/03, First Revised Sheet No. 8 Effective 11/01/03, First Revised Sheet No. 9 Effective 12/01/2003, First Revised Sheet No. 11 Effective 11/01/03, Original Sheet No. 19 Effective 06/23/03 and First Revised Sheet No. 10 Effective 11/01/2003

<u>Calculated Inputs</u>	<u>Firm</u>	<u>Storage</u>	<u>Total</u>	<u>Interruptible</u>	<u>Total</u>
Annual Throughput at Burnertip Per GR-93-172	889,983	578,794	1,468,777	0	1,468,777
Annual Throughput at Citygate	922,157	599,718	1,521,875	0	1,521,875
Annual Throughput at Havenpool	935,346	610,799	1,546,145	0	1,546,145
Annual Throughput at Wellhead	947,090	627,504	1,574,594	0	1,574,594

Current Gas Cost Calculation

	<u>Apr-04</u>	<u>May-04</u>	<u>Jun-04</u>	<u>Jul-04</u>	<u>Aug-04</u>	<u>Sep-04</u>	<u>Oct-04</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS								
Requirements	117,502	64,871	44,063	34,272	33,047	36,719	51,407	381,881
PEPL Market Zone Fuel Loss	1.41%	1.41%	1.41%	1.41%	1.41%	1.41%	1.41%	
PEPL Field Zone Fuel Loss	1.24%	1.24%	1.24%	1.24%	1.24%	1.24%	1.24%	
Gathering Fuel Loss	0.88%	0.88%	0.88%	0.88%	0.88%	0.88%	0.88%	
Total Supply - Fuel Loss	121,750	67,216	45,656	35,511	34,242	38,047	53,266	
Storage Injection	40,000	120,000	120,000	120,000	120,000	120,000	80,000	720,000
Storage Injection Loss	1.44%	1.44%	1.44%	1.44%	1.44%	1.44%	1.44%	
Total Storage - Fuel Loss	40,584	121,753	121,753	121,753	121,753	121,753	81,169	
(Storage injection is noted on spreadsheet but not included in commodity cost calculation because MPS does not pay for storage until it is withdrawn in the winter months.)								
Purchase Requirements	121,750	67,216	45,656	35,511	34,242	38,047	53,266	395,688
Total Supply	121,750	67,216	45,656	35,511	34,242	38,047	53,266	395,688
Forecasted Price (NYMEX-PEPL Basis)	\$ 5.2050	\$ 5.2700	\$ 5.3250	\$ 5.3550	\$ 5.3750	\$ 5.3550	\$ 5.3650	
Total Cost	\$ 633,709	\$ 354,228	\$ 243,118	\$ 190,161	\$ 184,051	\$ 203,742	\$ 285,772	2,094,781
Contracted Seasonal Price Supply	0	0	0	0	0	0	0	0
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0
Storage Withdrawal (17007)	0	0	0	0	0	0	0	0
Storage WACOG (17007)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<u>Forecasted Gas Commodity Cost</u>	633,709	354,228	243,118	190,161	184,051	203,742	285,772	2,094,781
<u>Forecasted Sales Gas Quantity</u>	121,750	67,216	45,656	35,511	34,242	38,047	53,266	395,688
<u>Gas Cost (Commodity) Dth</u>								\$5.2940
SUMMARY OF UPSTREAM COSTS								
Panhandle Eastern Pipeline - Firm								
FT Commodity (Field Zone)	120,679	66,625	45,254	35,199	33,940	37,712	52,797	
FT Commodity (Market Zone)	119,182	65,799	44,693	34,762	33,520	37,244	52,142	
Total Units	239,861	132,424	89,947	69,961	67,460	74,956	104,939	779,548
Cost/Dth - Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	\$0.0139	\$0.0139	\$0.0139	\$0.0139	\$0.0139	\$0.0139	\$0.0139	
Total Panhandle Commodity Costs	\$4,010	\$2,214	\$1,504	\$1,170	\$1,128	\$1,253	\$1,754	13,032
<u>Forecasted Northern Upstream Costs</u>	4,010	2,214	1,504	1,170	1,128	1,253	1,754	13,032
<u>Forecasted Firm Sales Quantity</u>	121,750	67,216	45,656	35,511	34,242	38,047	53,266	395,688
<u>Upstream Cost/Dth</u>								\$0.0329

Wellhead Cost of Gas

\$ 5.3269

Gas Commodity Cost Calculation

INSIDE FERC MARCH 04		\$4.69	
PEPL Market Zone Fuel Loss		1.41%	
PEPL Field Zone Fuel Loss		1.24%	
Gathering Fuel Loss		<u>0.88%</u>	
PEPL Index Adjusted for Fuel	\$	4.8596	
PEPL Cost/Dth Field Zone		\$0.0195	
PEPL Cost/Dth - Market Zone		<u>\$0.0139</u>	
		\$4.8930	
Total Gas Commodity Costs		<table border="1"><tr><td>\$4.8930</td></tr></table>	\$4.8930
\$4.8930			

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Eastern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates

Enclosure 3

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FIRM	Annual/ Seasonal Volume	Monthly Capacity Reserved	No. of Mths Reserved	Tariff Rate	Annual Cost
<u>Panhandle Eastern Pipe Line</u>					
Winter (Nov-Mar)					
FT Reservation (Field Zone)		5,450	5	\$4.7300	\$128,893
FT Reservation (Market Zone)		5,450	5	\$5.7400	\$156,415
					<u>\$285,308</u>
Winter Sales Volume at Burnertip	273,300				
Winter Cost per MCF at Burnertip					\$1.0439
Summer (Apr-Oct) Volumetric Rate					
100% LF of Max Rate (Fld-4 Blks)	105,766				\$0.3445
Summer Cost per MCF at Burnertip					\$0.3445
<u>Missouri Pipeline Company</u>					
Rolla					
FT Reservation		3,437	12	\$4.3181	\$178,096
Salem					
FT Reservation		2,500	12	\$1.7500	\$52,500
Owensville					
FT Reservation		1,900	12	\$4.3181	\$98,453
<u>Missouri Gas Company</u>					
Rolla					
FT Reservation		3,437	12	\$8.7500	\$360,885
Salem					
FT Reservation		2,500	12	\$13.1700	\$395,100
Owensville					
FT Reservation		1,900	12	\$13.1766	\$300,426
Total Eastern System MoPipe & MoGas Costs					<u>\$1,385,460</u>
Spot Market Purchases	380,336			\$5.0667	\$1,927,039
Total Eastern System Costs					<u>\$3,312,498</u>
Sales Volume at Burnertip	<u>379,066</u>				
Cost per MCF at Burnertip					\$8.7386
Summer PGA					
Total Cost per MCF at Burnertip					\$9.0831
Highest WACOG (Summer Period)		Apr 01 - Oct 01	Apr 02 - Oct 02	Apr 03 - Oct 03	Average WACOG
		\$3.5445	\$3.1180	\$4.7666	\$3.8097
Highest Avg WACOG-Summer Period (Avg of summer seasons with the highest of 3 averages)					\$4.2882
				March 2004 Gas Commodity Costs	\$5.6253
<u>INTERRUPTIBLE</u>					
<u>Panhandle Eastern Pipe Line</u>					
IT (Field Zone)	\$0.1750		@ 150%		\$0.2625
IT (Market Zone)	\$0.2037		@ 150%		\$0.3055
<u>Missouri Pipeline Company</u>					
Commodity	\$0.3898				\$0.3898
<u>Missouri Gas Company</u>					
Commodity	\$2.0133				\$2.0133
Spot Market Price Per MCF	\$5.0667				\$5.0667
Cost per MCF at Burnertip					<u>\$8.0378</u>

AQUILA INC. d/b/a AQUILA NETWORKS - MPS
Eastern System Gas Cost Inputs

Enclosure 3

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MPS Line Loss	0.334%
MoGas/MoPipe Fuel	0.43%

PEPL RATES

PEPL EFT Reservation Rates

Field Zone Reservation	\$4.73
Market Zone Access	\$3.30
Market Zone Mileage 301-400 Block	\$2.40
GRI Funding Unit	\$0.0500
Settlement Surcharges	(\$0.0100)
Canadian Resolution Surcharges	\$0.0000
GSR Surcharge	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0000

PEPL Interruptible Rates (EIT)

Field Zone	\$0.1750
Market Zone Access	\$0.1091
Market Zone Mileage	\$0.0888
GRI Funding Unit	\$0.0040
ACA Unit Charge	\$0.0021
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Canadian Resolution Surcharges	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0000

PEPL Gathering Loss	0.88%
PEPL Field Zone Loss	1.24%
PEPL Market Zone Loss-301-400	2.00%

PEPL EFT Commodity Rates

Market Zone Access	\$0.0006
Market Zone Mileage 301-400	\$0.0100
GRI Funding Unit	\$0.0040
ACA Unit Charge	\$0.0021
TOP	\$0.0000
Settlement Charges	(\$0.0003)

EFT Commodity Rates	\$0.0164
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Field Zone Commodity	\$0.0195
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Total EFT Commodity Rates	\$0.0359
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Note: From FERC Gas Tariff: PEPL First Revised Sheet No. 5 Effective 11/01/03 , First Revised Sheet No. 8 Effective 11/01/03, First Revised Sheet No. 11 Effective 11/01/03 and Original Sheet No. 19 Effective 06/23/03

Annual Throughput at Burnertip	379,066
Annual Throughput at Citygate	380,336
MOGAS & MPC	381,979
Annual Throughput at Wellhead	394,668

Seasonal Sales Volume @ Burnertip

Jan	73,216
Feb	65,424
Mar	53,242
Apr	37,244
May	20,814
Jun	10,209
Jul	7,438
Aug	7,242
Sep	8,048
Oct	14,772
Nov	29,297
Dec	52,121
TOTAL	379,066

Eastern System
Current Gas Cost Calculation

	<u>Apr-04</u>	<u>May-04</u>	<u>Jun-04</u>	<u>Jul-04</u>	<u>Aug-04</u>	<u>Sep-04</u>	<u>Oct-04</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS								
Requirements	37,244	20,814	10,209	7,438	7,242	8,048	14,772	105,766
MoGas/MoPipe Fuel Loss	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	0.43%	
PEPL Market Zone Fuel Loss	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	
PEPL Field Zone Fuel Loss	1.24%	1.24%	1.24%	1.24%	1.24%	1.24%	1.24%	
Gathering Fuel Loss	<u>0.88%</u>	<u>0.88%</u>	<u>0.88%</u>	<u>0.88%</u>	<u>0.88%</u>	<u>0.88%</u>	<u>0.88%</u>	
Total Supply - Fuel Loss	38,990	21,790	10,688	7,786	7,581	8,426	15,465	110,726
Purchase Requirements	38,990	21,790	10,688	7,786	7,581	8,426	15,465	
Total Supply	38,990	21,790	10,688	7,786	7,581	8,426	15,465	110,726
Forecasted Price (NYMEX-PEPL Basis)*	\$ 5.2050	\$ 5.2700	\$ 5.3250	\$ 5.3550	\$ 5.3750	\$ 5.3550	\$ 5.3650	
Total Cost	\$ 202,943	\$ 114,833	\$ 56,914	\$ 41,694	\$ 40,748	\$ 45,121	\$ 82,970	\$ 585,223
Contracted Fixed Price Supply	0	0	0	0	0	0	0	\$ -
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contracted Call Option	0	0	0	0	0	0	0	\$ -
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contracted Other Option	0	0	0	0	0	0	0	\$ -
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Contracted Seasonal Price Supply	0	0	0	0	0	0	0	\$ -
Contracted Price	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Forecasted Gas Commodity Cost	\$ 202,943	\$ 114,833	\$ 56,914	\$ 41,694	\$ 40,748	\$ 45,121	\$ 82,970	\$ 585,223
Forecasted Sales Gas Quantity	38,990	21,790	10,688	7,786	7,581	8,426	15,465	110,726

Gas Cost (Commodity) Dth

\$5.2853

SUMMARY OF UPSTREAM COSTS

Panhandle Eastern Pipeline - Firm

FT Commodity (Field Zone)	38,647	21,598	10,593	7,718	7,514	8,352	15,329	
FT Commodity (Market Zone)	<u>38,168</u>	<u>21,330</u>	<u>10,462</u>	<u>7,622</u>	<u>7,421</u>	<u>8,248</u>	<u>15,139</u>	
Total Units	76,815	42,928	21,055	15,340	14,935	16,600	30,468	
Cost/Dth Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	<u>\$0.0164</u>	<u>\$0.0164</u>	<u>\$0.0164</u>	<u>\$0.0164</u>	<u>\$0.0164</u>	<u>\$0.0164</u>	<u>\$0.0164</u>	
Total Panhandle Commodity Costs	\$1,380	\$771	\$378	\$276	\$268	\$298	\$547	\$3,918

Missouri Pipeline Company - Firm

Rolla								
FT Commodity	28,039	15,669	7,686	5,599	5,451	6,059	11,121	
Salem								
FT Commodity	5,449	3,046	1,493	1,089	1,060	1,178	2,161	
Owensville								
FT Commodity	<u>3,919</u>	<u>2,190</u>	<u>1,074</u>	<u>782</u>	<u>762</u>	<u>846</u>	<u>1,554</u>	
Total Units	37,407	20,905	10,253	7,470	7,273	8,083	14,836	106,227
Cost/Dth - Rolla	\$0.1699	\$0.1699	\$0.1699	\$0.1699	\$0.1699	\$0.1699	\$0.1699	
Cost/Dth - Salem	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	
Cost/Dth - Owensville	<u>\$0.1699</u>	<u>\$0.1699</u>	<u>\$0.1699</u>	<u>\$0.1699</u>	<u>\$0.1699</u>	<u>\$0.1699</u>	<u>\$0.1699</u>	
Total MoPipe Commodity Costs	\$5,702	\$3,187	\$1,563	\$1,139	\$1,109	\$1,232	\$2,262	\$16,194

Missouri Gas Company - Firm

Rolla								
FT Commodity	27,918	15,602	7,653	5,575	5,428	6,033	11,073	
Salem								
FT Commodity	5,426	3,033	1,487	1,084	1,055	1,173	2,152	
Owensville								
FT Commodity	<u>3,902</u>	<u>2,180</u>	<u>1,069</u>	<u>778</u>	<u>758</u>	<u>842</u>	<u>1,547</u>	
Total Units	37,246	20,815	10,209	7,437	7,241	8,048	14,772	105,771
Cost/Dth - Rolla	\$0.4500	\$0.4500	\$0.4500	\$0.4500	\$0.4500	\$0.4500	\$0.4500	
Cost/Dth - Salem	\$0.6200	\$0.6200	\$0.6200	\$0.6200	\$0.6200	\$0.6200	\$0.6200	
Cost/Dth - Owensville	<u>\$0.9433</u>	<u>\$0.9433</u>	<u>\$0.9433</u>	<u>\$0.9433</u>	<u>\$0.9433</u>	<u>\$0.9433</u>	<u>\$0.9433</u>	
Total MoGas Commodity Costs	\$19,608	\$10,958	\$5,375	\$3,915	\$3,812	\$4,237	\$7,777	\$55,682
Total MoPipe & MoGas Costs	\$25,310	\$14,145	\$6,938	\$5,054	\$4,921	\$5,469	\$10,039	\$71,876

Forecasted Eastern Upstream Costs \$26,690 \$14,916 \$7,316 \$5,330 \$5,189 \$5,767 \$10,586 \$75,794

Forecasted Firm Sales Quantity 38,990 21,790 10,688 7,786 7,581 8,426 15,465 110,726

Upstream Cost/Dth

\$0.6845

99/00 & 00/01 Purchasing Practice Settlement (Anonymous Letter)

(\$100,000)
(\$0.9031)

\$5.0667

Gas Commodity Cost Calculation

INSIDE FERC MARCH 04	\$ 4.69
MoGas/MoPipe Fuel Loss	0.43%
PEPL Market Zone Fuel Loss	2.00%
PEPL Field Zone Fuel Loss	1.24%
Gathering Fuel Loss	<u>0.88%</u>

PEPL Index Adjusted for Fuel \$ 4.9099

PEPL Cost/Dth Field Zone	\$0.0195
PEPL Cost/Dth - Market Zone	\$0.0164
Total PEPL Commodity Cost	\$4.9458

PEPL Cost	\$4.9458
MoPipe Cost/Dth - Rolla	\$0.1699
MoGas Cost/Dth - Rolla	\$0.4500
Rolla	\$5.5657

PEPL Cost	\$4.9458
MoPipe Cost/Dth - Salem	\$0.0500
MoGas Cost/Dth - Salem	\$0.6200
Total Salem	\$5.6158

PEPL Cost	\$4.9458
MoPipe Cost/Dth - Owensville	\$0.1699
MoGas Cost/Dth - Owensville	\$0.9433
Total Owensville	\$6.0590

		Percent Split	
Rolla	\$5.5657	74.96%	\$ 4.1720
Salem	\$5.6158	14.57%	\$ 0.8182
Owensville	\$6.0590	10.48%	\$ 0.6350

\$ 5.6253

Total Gas Commodity Costs

\$ 5.6253

Enclosure 4

	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCTOBER		
SOUTHERN SYSTEM (01):									
Purchase Volumes	172,537	30,963	13,102	13,565	55,581	88,348	4,752	378,848	
Commodity Cost (Highest)	\$5.2396	\$4.5996	\$3.7867	\$3.0147	\$2.8691	\$2.1988	\$4.9300		
Total Commodity Costs	\$904,025	\$142,417	\$49,613	\$40,894	\$159,467	\$194,260	\$23,427	\$1,514,103	
	Weighted Avg. Commodity Costs								\$3.9966
SOUTHERN SYSTEM (02):									
Purchase Volumes	182,591	117,856	110,155	65,333	66,273	65,010	115,646	722,864	
Commodity Cost (Highest)	\$3.2056	\$3.0367	\$2.8754	\$2.7316	\$2.6173	\$2.6298	\$4.0948		
Total Commodity Costs	\$585,314	\$357,893	\$316,740	\$178,464	\$173,456	\$170,963	\$473,547	\$2,256,377	
	Weighted Avg. Commodity Costs								\$3.1214
SOUTHERN SYSTEM (03):									
Purchase Volumes	103,586	98,965	80,325	34,014	10,000	34,198	10,908	371,996	
Commodity Cost (Highest)	\$4.6326	\$4.5230	\$5.3121	\$5.1650	\$5.1650	\$4.7700	\$4.7700		
Total Commodity Costs	\$479,873	\$447,619	\$426,694	\$175,682	\$51,650	\$163,124	\$52,031	\$1,796,673	
	Weighted Avg. Commodity Costs								\$4.8298
	Average of 3 Periods								\$3.9826
	Highest Avg WACOG-Summer Period (avg of summer seasons with the highest of 3 averages)								\$4.4062
	March 2004 Gas Commodity Cost								\$4.8003
	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCTOBER		
NORTHERN SYSTEM (01):									
Purchase Volumes	42,901	29,258	3,175	5,611	449	21,879	21,675	124,948	
Commodity Cost (Highest)	\$5.3075	\$4.8100	\$4.6800	\$4.6800	\$4.6800	\$4.6800	\$4.6800		
Total Commodity Costs	\$227,697	\$140,731	\$14,859	\$26,259	\$2,101	\$102,394	\$101,439	\$615,480	
	Weighted Avg. Commodity Costs								\$4.9259
NORTHERN SYSTEM (02):									
Purchase Volumes	1,720	39,115	26,246	28,661	24,271	23,075	65,334	208,422	
Commodity Cost (Highest)	\$3.2750	\$3.1400	\$2.9500	\$2.9475	\$2.6550	\$2.9250	\$3.3000		
Total Commodity Costs	\$5,633	\$122,821	\$77,426	\$84,478	\$64,440	\$67,494	\$215,602	\$637,894	
	Weighted Avg. Commodity Costs								\$3.0606
NORTHERN SYSTEM (03):									
Purchase Volumes	73,261	36,109	24,608	27,951	20,732	28,442	46,245	257,348	
Commodity Cost (Highest)	\$4.6050	\$4.7700	\$5.5700	\$5.1650	\$4.5375	\$4.8150	\$4.3150		
Total Commodity Costs	\$337,367	\$172,240	\$137,067	\$144,367	\$94,071	\$136,948	\$199,547	\$1,221,607	
	Weighted Avg. Commodity Costs								\$4.7469
	Average of 3 Periods								\$4.2445
	Highest Avg WACOG-Summer Period (avg of summer seasons with the highest of 3 averages)								\$4.5852
	March 2004 Gas Commodity Cost								\$4.8930
	APRIL	MAY	JUNE	JULY	AUGUST	SEPT	OCTOBER		
EASTERN SYSTEM (01):									
Purchase Volumes	24,750	8,587	12,240	8,586	6,355	6,018	21,375	87,911	
Commodity Cost (Highest)	\$5.3075	\$4.8100	\$3.6150	\$3.0200	\$3.0425	\$2.2100	\$1.6900		
Total Commodity Costs	\$131,361	\$41,303	\$44,248	\$25,930	\$19,335	\$13,300	\$36,124	\$311,601	
	Weighted Avg. Commodity Costs								\$3.5445
EASTERN SYSTEM (02):									
Purchase Volumes	15,100	14,650	7,310	6,630	6,200	6,844	21,400	78,134	
Commodity Cost (Highest)	\$3.2725	\$3.1400	\$2.9500	\$2.9475	\$2.6550	\$2.9250	\$3.3000		
Total Commodity Costs	\$49,415	\$46,001	\$21,565	\$19,542	\$16,461	\$20,019	\$70,620	\$243,623	
	Weighted Avg. Commodity Costs								\$3.1180
EASTERN SYSTEM (03):									
Purchase Volumes	20,400	9,011	6,000	12,400	0	19,752	16,500	84,063	
Commodity Cost (Highest)	\$4.6050	\$4.7700	\$5.5700	\$5.1650	\$0.0000	\$4.8150	\$4.3150		
Total Commodity Costs	\$93,942	\$42,982	\$33,420	\$64,046	\$0	\$95,106	\$71,198	\$400,694	
	Weighted Avg. Commodity Costs								\$4.7666
	Average of 3 Periods								\$3.8097
	Highest Avg WACOG-Summer Period (avg of summer seasons with the highest of 3 averages)								\$4.2882
	March 2004 Gas Commodity Cost								\$5.6253

Aquila Inc. d/b/a Aquila Networks - MPS
Southern System
2003-2004 ACA Year PGA Estimate
(Based on Monthly Actuals and Estimates)

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Commodity	\$5.5408	\$4.7423	\$5.0970	\$5.0590	\$5.6802	\$5.1936	\$5.1936	\$5.2600	\$5.3250	\$5.3800	\$5.4100	\$5.4300	
Fixed Costs	\$3.5414	\$2.1962	\$1.5666	\$0.5359	\$0.4935	\$0.7427	\$1.0389	\$1.4504	\$3.2635	\$4.8161	\$6.0895	\$6.7396	
Estimated Sales Volume	72,910	97,425	184,043	428,024	588,261	652,065	466,121	333,893	148,390	100,554	79,527	71,855	3,223,068
ACA Factor in Effect	\$0.2464	\$0.2577	\$0.2497	\$0.2275	\$0.2217	\$0.2201	\$0.2135	\$0.2135	\$0.2135	\$0.2135	\$0.2135	\$0.2135	
PGA Factor in Effect	\$7.7069	\$7.7071	\$7.6297	\$6.5313	\$6.2746	\$6.2671	\$6.2669	\$6.4480	\$6.4480	\$6.4480	\$6.4480	\$6.4480	
PGA/ACA Factor - Required	\$9.0822	\$6.9385	\$6.6636	\$5.5949	\$6.1737	\$5.9363	\$6.2325	\$6.7104	\$8.5885	\$10.1961	\$11.4995	\$12.1696	
Over/Under Recovery	-\$1.1289	\$1.0263	\$1.2158	\$1.1639	\$0.3226	\$0.5510	\$0.2479	-\$0.0489	-\$1.9270	-\$3.5346	-\$4.8380	-\$5.5081	

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Gas Supply Purchased (in Dth)	85,215	137,488	233,762	682,779	742,866	493,663	352,889	252,783	112,343	76,127	60,208	54,400	3,284,522
Sales Volumes (in Mcf)	72,910	97,425	184,043	428,024	588,261	652,065	466,121	333,893	148,390	100,554	79,527	71,855	3,223,068
Cost of Gas Purchased and Produced	773,938	953,957	1,557,690	3,820,096	4,586,247	2,930,520	2,199,399	1,696,270	964,858	776,197	692,359	662,024	21,613,556
ACA Factor in Effect	17,966	25,103	45,965	97,375	130,404	143,509	99,517	71,286	31,681	21,468	16,979	15,341	716,595
PGA Factor in Effect	561,909	750,871	1,404,191	2,795,569	3,691,106	4,086,586	2,921,134	2,152,942	956,819	648,372	512,790	463,321	20,945,608
PGA Factor - Required	773,938	953,957	1,557,690	3,820,096	4,586,247	2,930,520	2,199,399	1,696,270	964,858	776,197	692,359	662,024	21,613,556
Over/Under Recovery	(194,063)	(177,983)	(107,534)	(927,152)	(764,737)	1,299,574	821,251	527,958	23,642	(106,357)	(162,590)	(183,362)	48,647

Prior ACA Yr Over/Under Recovery Balance-Firm	(370,629)	This number includes the 99/00 & 00/01 Settlement Adjustments											
Monthly ACA Over/Under Recovery	17,966	25,103	45,965	97,375	130,404	143,509	99,517	71,286	31,681	21,468	16,979	15,341	716,595
Monthly PGA Over/Under Recovery	(212,029)	(203,086)	(153,499)	(1,024,527)	(895,142)	1,156,065	721,735	456,672	(8,039)	(127,825)	(179,569)	(198,703)	(667,948)
Total Monthly PGA/ACA Over/Under Recovery	(194,063)	(177,983)	(107,534)	(927,152)	(764,737)	1,299,574	821,251	527,958	23,642	(106,357)	(162,590)	(183,362)	48,647
2003-2004 PGA/ACA Yr to Date Over/Under Recovery	(194,063)	(372,045)	(479,580)	(1,406,732)	(2,171,469)	(871,895)	(50,644)	477,314	500,956	394,600	232,009	48,647	
Inception to Date PGA/ACA Over/Under Recovery	(564,728)	(742,711)	(850,245)	(1,777,398)	(2,542,135)	(1,242,561)	(421,310)	106,649	130,291	23,934	(138,656)	(322,019)	

Firm Mcfs 3,823,123

Note: Shaded areas indicate estimates.

Note: Prior months may change from previous spreadsheets due to prior period adjustments entered in appropriate month on this schedule.

Forecasted ACA 11/03 0.0842

Enclosure 5

Aquila Inc. d/b/a Aquila Networks - MPS
Northern System
2003-2004 ACA Year PGA Analysis
(Based on Monthly Actuals & Estimates)

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Commodity	\$0.9806	\$6.7163	\$4.7631	\$4.0551	\$4.3925	\$4.8858	\$4.8858	\$4.2632	\$3.4480	\$1.8440	\$0.5344	\$0.2839
Fixed Costs	\$5.1709	\$3.2035	\$1.6153	\$1.1055	\$0.8282	\$1.2282	\$1.6575	\$2.6109	\$5.0484	\$9.6505	\$13.3642	\$14.1142
Estimated Sales Volume	19,287	29,542	62,682	139,956	198,137	214,294	158,791	100,805	52,134	27,273	19,694	18,648
ACA Factor in Effect	-\$0.0385	-\$0.0411	-\$0.0137	\$0.3467	\$0.4303	\$0.4497	\$0.3963	\$0.3963	\$0.3963	\$0.3963	\$0.3963	\$0.3963
PGA Factor in Effect	\$8.2314	\$8.2370	\$8.1363	\$6.8427	\$6.5378	\$6.5374	\$6.5240	\$6.8974	\$6.8974	\$6.8974	\$6.8974	\$6.8974
PGA/ACA Factor - Required	\$6.1516	\$9.9198	\$6.3784	\$5.1606	\$5.2207	\$6.1140	\$6.5433	\$6.8741	\$8.4974	\$11.4944	\$13.8986	\$14.3980
Over/Under Recovery	\$2.0413	(\$1.7238)	\$1.7441	\$2.0287	\$1.7473	\$0.8732	\$0.3770	\$0.4196	(\$1.2037)	(\$4.2007)	(\$6.6049)	(\$7.1043)

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Gas Supply Purchased (in Dth)	27,736	45,100	125,591	183,506	244,953	165,179	122,397	77,701	40,185	21,022	15,180	14,374	1,082,925
Sales Volumes (in Mcf)	19,287	29,542	62,682	139,956	198,137	214,294	158,791	100,805	52,134	27,273	19,694	18,648	1,041,243
Cost of Gas Purchased and Produced	170,620	447,381	801,070	947,005	1,278,829	1,009,906	800,880	534,129	341,470	241,636	210,985	206,953	6,990,862
ACA Factor in Effect	(743)	(1,213)	(859)	48,519	85,251	96,376	62,927	39,948	20,660	10,808	7,805	7,390	376,868
PGA Factor in Effect	158,759	243,339	509,993	957,679	1,295,368	1,400,931	1,035,952	695,294	359,588	188,111	135,838	128,620	7,109,474
PGA Factor - Required	170,620	447,381	801,070	947,005	1,278,829	1,009,906	800,880	534,129	341,470	241,636	210,985	206,953	6,990,862
Over/Under Recovery	(12,605)	(205,254)	(291,936)	59,193	101,790	487,402	298,000	201,113	38,779	(42,717)	(67,342)	(70,943)	495,480

Prior ACA Yr Over/(Under) Recovery Balance-Firm	(677,524)	This number includes the 99/00 Settlement Adjustment											
Monthly ACA Over/(Under) Recovery	(743)	(1,213)	(859)	48,519	85,251	96,376	62,927	39,948	20,660	10,808	7,805	7,390	376,868
Monthly PGA Over/(Under) Recovery	(11,861)	(204,041)	(291,077)	10,674	16,539	391,026	235,073	161,165	18,119	(53,525)	(75,147)	(78,333)	118,612
Total Monthly PGA/ACA Over/(Under) Recovery	(12,605)	(205,254)	(291,936)	59,193	101,790	487,402	298,000	201,113	38,779	(42,717)	(67,342)	(70,943)	495,480
2003-2004 PGA/ACA Yr to Date Over/(Under) Recovery	(12,605)	(217,859)	(509,795)	(450,602)	(348,812)	138,589	436,589	637,703	676,482	633,765	566,423	495,480	
Inception to Date PGA/ACA Over/(Under) Recovery	(590,129)	(795,383)	(1,087,319)	(1,028,126)	(926,336)	(438,935)	(140,935)	60,179	98,958	56,241	(11,101)	(82,044)	

Firm Mcfs 1,468,777

Note: Shaded areas are estimated amounts. Light gray shaded area is estimated based on information obtained from accountants.

Note: Prior months may change from previous spreadsheets due to prior period adjustments entered in appropriate month on this schedule.

Forecasted ACA 11/03 0.0559

Enclosure 6

**Aquila Inc. d/b/a Aquila Networks - MPS
Eastern System
2003-2004 ACA Year PGA Estimate
(Based on Monthly Actuals and Estimates)**

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Commodity	\$5,2973	\$5,0083	\$6,6091	\$5,3619	\$6,1517	\$5,8420	\$5,8420	\$5,2050	\$5,2700	\$5,3250	\$5,3550	\$5,3750	
Fixed Costs	\$10,0853	\$8,0346	\$5,1212	\$2,8575	\$2,3603	\$3,6078	\$4,7121	\$6,5764	\$11,7676	\$23,9919	\$32,9315	\$33,8224	
Estimated Sales Volume	8,830	9,523	17,329	37,227	59,072	67,888	51,979	37,244	20,814	10,209	7,438	7,242	334,793
ACA Factor in Effect	-\$0.0134	-\$0.0149	-\$0.0084	\$0.6831	\$0.9963	\$0.9914	\$0.9190	\$0.9190	\$0.9190	\$0.9190	\$0.9190	\$0.9190	
PGA Factor in Effect	\$9,2001	\$9,2011	\$9,2046	\$9,9484	\$10,2673	\$10,2678	\$10,2659	\$9,9862	\$9,9862	\$9,9862	\$9,9862	\$9,9862	
PGA/ACA Factor - Required	\$15,3826	\$13,0429	\$11,7303	\$8,2194	\$8,5120	\$9,4498	\$10,5541	\$11,7814	\$17,0376	\$29,3169	\$38,2865	\$39,1974	
Over/Under Recovery	(\$6,1959)	(\$3,8567)	(\$2,5341)	\$2,4121	\$2,7516	\$1,8094	\$0,6308	(\$0,8762)	(\$6,1324)	(\$18,4117)	(\$27,3813)	(\$28,2922)	
	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Gas Supply Purchased (in Dth)	11,782	14,654	33,505	60,298	73,000	47,758	36,567	26,200	14,642	7,182	5,232	5,094	335,915
Sales Volumes (in Mcf)	8,830	9,523	17,329	37,227	59,072	67,888	51,979	37,244	20,814	10,209	7,438	7,242	334,793
Cost of Gas Purchased and Produced	181,238	191,131	393,023	495,614	621,379	451,307	385,926	308,678	249,468	210,547	200,322	199,686	3,888,319
ACA Factor in Effect	(118)	(142)	(146)	25,429	58,855	67,304	47,769	34,227	19,128	9,382	6,835	6,655	275,177
PGA Factor in Effect	81,233	87,624	159,503	370,352	606,513	697,058	533,611	371,923	207,850	101,947	74,272	72,316	3,364,204
PGA Factor - Required	181,238	191,131	393,023	495,614	621,379	451,307	385,926	308,678	249,468	210,547	200,322	199,686	3,888,319
Over/(Under) Recovery	(100,123)	(103,649)	(233,666)	(99,833)	43,989	313,055	195,454	97,472	(22,491)	(99,218)	(119,215)	(120,715)	(248,938)
Prior ACA Yr Over/(Under) Recovery Balance	(234,683)	This number includes the 99/00 & 00/01 Settlement Adjustments											
Monthly ACA Over/(Under) Recovery	(118)	(142)	(146)	25,429	58,855	67,304	47,769	34,227	19,128	9,382	6,835	6,655	275,177
Monthly PGA Over/(Under) Recovery	(100,005)	(103,507)	(233,520)	(125,262)	(14,866)	245,752	147,685	63,246	(41,619)	(108,600)	(126,050)	(127,370)	(524,115)
Total Monthly PGA/ACA Over/(Under) Recovery	(100,123)	(103,649)	(233,666)	(99,833)	43,989	313,055	195,454	97,472	(22,491)	(99,218)	(119,215)	(120,715)	(248,938)
2003-2004 PGA/ACA Yr to Date Over/(Under) Recovery	(100,123)	(203,772)	(437,437)	(537,270)	(493,281)	(180,226)	15,228	112,701	90,210	(9,008)	(128,223)	(248,938)	
Inception to Date PGA/ACA Over/(Under) Recovery	(334,806)	(438,455)	(672,121)	(771,953)	(727,964)	(414,909)	(219,455)	(121,983)	(144,473)	(243,691)	(362,906)	(483,621)	

Firm Mcfs 379,066

Note: Shaded areas indicate estimate.

Note: Prior months may change from previous spreadsheets due to prior period adjustments entered in appropriate month on this schedule.

Forecasted ACA 11/03 1.2758

Enclosure 7

**Aquila Inc. d/b/a Aquila Networks - MPS
Southern System
Estimated Deferred Carrying Cost Balance (DCCB) Calculation
2003-2004 ACA Year**

Annual Gas Cost Level

Gas Cost from Nov 03 ACA calculation	19,453,110
Gas Cost from Nov 02 ACA calculation	15,415,511
Gas Cost from Nov 01 ACA calculation	29,366,994
Average of 3 most recent gas cost calculations	21,411,872
	10%
10% of average annual gas cost threshold	2,141,187

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Sales Volumes (in Mcf)	72,910	97,425	184,043	428,024	588,261	652,065	466,121	333,893	148,390	100,554	79,527	71,855	3,223,068
Cost of Gas Purchased and Produced	773,938	953,957	1,557,690	3,820,096	4,586,247	2,930,520	2,199,399	1,696,270	964,858	776,197	692,359	662,024	21,613,556
PGA - Estimated Annualized Unit Cost of Gas	\$7.7069	\$7.7071	\$7.6297	\$6.5313	\$6.2746	\$6.2671	\$6.2669	\$6.4480	\$6.4480	\$6.4480	\$6.4480	\$6.4480	\$6.4480
Actual Annualized Unit Cost of Gas	10.6150	9.7917	8.4637	8.9250	7.7963	4.4942	4.7185	5.0803	6.5022	7.7192	8.7060	9.2133	
Difference	-2.9081	-2.0845	-0.8340	-2.3936	-1.5217	1.7729	1.5484	1.3677	-0.0542	-1.2712	-2.2580	-2.7653	
Actual Sales Volumes	72,910	97,425	184,043	428,024	588,261	652,065	466,121	333,893	148,390	100,554	79,527	71,855	
DCCB Monthly Over/(Under) Recovery	(212,029)	(203,086)	(153,499)	(1,024,527)	(895,142)	1,156,065	721,735	456,672	(8,039)	(127,825)	(179,569)	(198,703)	
2003-04 DCCB Yr to Date Over/(Under) Recovery	(212,029)	(415,115)	(568,614)	(1,593,141)	(2,488,283)	(1,332,218)	(610,483)	(153,811)	(161,850)	(289,675)	(469,244)	(667,948)	
10% of average annual gas cost threshold	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	2,141,187	
Absolute Value Rcvry Bal that exceeds threshold	-	-	-	-	347,096	-	-	-	-	-	-	-	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	-	-	(347,096)	-	-	-	-	-	-	-	
Interest at Prime Rate - Wall Street Journal - 1%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Carrying Costs Refunded/(Collected)	-	-	-	-	(868)	-	-	-	-	-	-	-	(868)
DCCB Percent of Avg Annual Gas Costs	-0.99%	-1.94%	-2.66%	-7.44%	-11.62%	-6.22%	-2.85%	-0.72%	-0.76%	-1.35%	-2.19%	-3.12%	

Note: The DCCB will become 0 at the beginning of each new ACA period (Sep).

Note: Shaded Area indicates estimate.

Enclosure 8

**Aquila Inc. d/b/a Aquila Networks - MPS
Northern System
Estimated Deferred Carrying Cost Balance (DCCB) Calculation
2003-2004 ACA Year**

Annual Gas Cost Level													
Gas Cost from Nov 03 ACA calculation	7,188,029												
Gas Cost from Nov 02 ACA calculation	6,358,388												
Gas Cost from Nov 01 ACA calculation	9,391,314												
Average of 3 most recent gas cost calculations	7,645,910												
	10%												
10% of average annual gas cost threshold	764,591												
	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Total</u>
Sales Volumes (in Mcf)	19,287	29,542	62,682	139,956	198,137	214,294	158,791	100,805	52,134	27,273	19,694	18,648	1,041,243
Cost of Gas Purchased and Produced	170,620	447,381	801,070	947,005	1,278,829	1,009,906	800,880	534,129	341,470	241,636	210,985	206,953	6,990,862
PGA - Estimated Annualized Unit Cost of Gas	\$8.2314	\$8.2370	\$8.1363	\$6.8427	\$6.5378	\$6.5374	\$6.5240	\$6.8974	\$6.8974	\$6.8974	\$6.8974	\$6.8974	\$6.8974
Actual Annualized Unit Cost of Gas	<u>8.8464</u>	<u>15.1437</u>	<u>12.7800</u>	<u>6.7664</u>	<u>6.4543</u>	<u>4.7127</u>	<u>5.0436</u>	<u>5.2986</u>	<u>6.5499</u>	<u>8.8600</u>	<u>10.7131</u>	<u>11.0981</u>	<u>11.0981</u>
Difference	-0.6150	-6.9067	-4.6437	0.0763	0.0835	1.8247	1.4804	1.5988	0.3475	-1.9626	-3.8157	-4.2007	-4.2007
Actual Sales Volumes	19,287	29,542	62,682	139,956	198,137	214,294	158,791	100,805	52,134	27,273	19,694	18,648	
DCCB Monthly Over/(Under) Recovery	(11,861)	(204,041)	(291,077)	10,674	16,539	391,026	235,073	161,165	18,119	(53,525)	(75,147)	(78,333)	
2003-04 DCCB Yr to Date Over/(Under) Recovery	(11,861)	(215,903)	(506,979)	(496,306)	(479,767)	(88,741)	146,332	307,497	325,616	272,091	196,944	118,612	
10% of average annual gas cost threshold	764,591	764,591	764,591	764,591	764,591	764,591	764,591	764,591	764,591	764,591	764,591	764,591	
Absolute Value Rcvry Bal that exceeds threshold	-	-	-	-	-	-	-	-	-	-	-	-	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	-	-	-	-	-	-	-	-	-	-	
Interest at Prime Rate - Wall Street Journal - 1%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Carrying Costs Refunded/(Collected)	-	-	-	-	-	-	-	-	-	-	-	-	
DCCB Percent of Avg Annual Gas Costs	-0.16%	-2.82%	-6.63%	-6.49%	-6.27%	-1.16%	1.91%	4.02%	4.26%	3.56%	2.58%	1.55%	

Note: The DCCB will become 0 at the beginning of each new ACA period (Sep).

Note: Shaded Area indicates estimate.

**Aquila Inc. d/b/a Aquila Networks
Eastern System
Estimated Deferred Carrying Cost Balance (DCCB) Calculation
2003-2004 ACA Year**

Annual Gas Cost Level

Gas Cost from Nov 03 ACA calculation	3,431,986
Gas Cost from Nov 02 ACA calculation	2,565,015
Gas Cost from Nov 01 ACA calculation	4,190,412
Average of 3 most recent gas cost calculations	3,395,804
	10%
10% of average annual gas cost threshold	339,580

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Sales Volumes (in Mcf)	8,830	9,523	17,329	37,227	59,072	67,888	51,979	37,244	20,814	10,209	7,438	7,242	334,793
Cost of Gas Purchased and Produced	181,238	191,131	393,023	495,614	621,379	451,307	385,926	308,678	249,468	210,547	200,322	199,686	3,888,319
PGA - Estimated Annualized Unit Cost of Gas	\$9.2001	\$9.2011	\$9.2046	\$9.9484	\$10.2673	\$10.2676	\$10.2659	\$9.9862	\$9.9862	\$9.9862	\$9.9862	\$9.9862	
Actual Annualized Unit Cost of Gas	20.5262	20.0701	22.6806	13.3132	10.5190	6.6479	7.4247	8.2880	11.9858	20.6241	26.9341	27.5749	
Difference	-11.3261	-10.8689	-13.4760	-3.3648	-0.2517	3.6200	2.8412	1.6982	-1.9996	-10.6379	-16.9479	-17.5887	
Actual Sales Volumes	8,830	9,523	17,329	37,227	59,072	67,888	51,979	37,244	20,814	10,209	7,438	7,242	
DCCB Monthly Over/(Under) Recovery	(100,005)	(103,507)	(233,520)	(125,262)	(14,866)	245,752	147,685	63,246	(41,619)	(108,600)	(126,050)	(127,370)	
2003-04 DCCB Yr to Date Over/(Under) Recovery	(100,005)	(203,512)	(437,032)	(562,293)	(577,159)	(331,408)	(183,722)	(120,477)	(162,095)	(270,695)	(396,745)	(524,115)	
10% of average annual gas cost threshold	339,580	339,580	339,580	339,580	339,580	339,580	339,580	339,580	339,580	339,580	339,580	339,580	
Absolute Value Rcvry Bal that exceeds threshold	-	-	97,451	222,713	237,579	-	-	-	-	-	57,165	184,535	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	(97,451)	(222,713)	(237,579)	-	-	-	-	-	(57,165)	(184,535)	
Interest at Prime Rate - Wall Street Journal - 1%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	3.00%	
Carrying Costs Refunded/(Collected)	-	-	(244)	(557)	(594)	-	-	-	-	-	(143)	(461)	(1,999)
DCCB Percent of Avg Annual Gas Costs	-2.94%	-5.99%	-12.87%	-16.56%	-17.00%	-9.76%	-5.41%	-3.55%	-4.77%	-7.97%	-11.68%	-15.43%	

Note: The DCCB will become 0 at the beginning of each new ACA period (Sep).

Note: Shaded Area indicates estimate.

Enclosure 10

**Aquila Networks
Southern System
2003-2004 Summer Season Revenue Impact**

Original Calculation Filed

Month	PGA Factor	Month	PGA Factor	PGA Change (03/04)	Revenue Impact (Summer Season)
Apr-03	7.9527	Apr-04	6.4257	(1.5270)	(467,033)
May-03	7.9527	May-04	6.4257	(1.5270)	(257,841)
Jun-03	7.9527	Jun-04	6.4257	(1.5270)	(175,137)
Jul-03	7.9527	Jul-04	6.4257	(1.5270)	(136,218)
Aug-03	7.9527	Aug-04	6.4257	(1.5270)	(131,353)
Sep-03	7.9527	Sep-04	6.4257	(1.5270)	(145,948)
Oct-03	7.9527	Oct-04	6.4257	(1.5270)	(204,327)

Estimated Summer Season Change in Revenue (1,517,856)

Percent Change Between PGA Factors -19.20%

Firm Sales Volume @ Burnertip

3,823,123

Month	Estimated Customer Usage Mcf/Mnth	Estimated % Mcf/Yr	Estimated Company Sales Mcf/Mnth
Jan	23.6	19.67%	751,881
Feb	21.7	18.08%	691,348
Mar	15.9	13.25%	506,564
Apr	9.6	8.00%	305,850
May	5.3	4.42%	168,855
Jun	3.6	3.00%	114,694
Jul	2.8	2.33%	89,206
Aug	2.7	2.25%	86,020
Sep	3	2.50%	95,578
Oct	4.2	3.50%	133,809
Nov	9.7	8.08%	309,036
Dec	<u>17.9</u>	<u>14.92%</u>	<u>570,283</u>
TOTAL	120	100%	3,823,123

Note: Estimated Customer Usage Obtained from Missouri Public Service Commission.

**Aquila Networks
Northern System
2003-2004 Summer Season Revenue Impact**

Original Calculation Filed

Month	PGA Factor	Month	PGA Factor	PGA Change (03/04)	Revenue Impact (Summer Season)
Apr-03	8.2004	Apr-04	7.2799	(0.9205)	(108,161)
May-03	8.2004	May-04	7.2799	(0.9205)	(59,714)
Jun-03	8.2004	Jun-04	7.2799	(0.9205)	(40,560)
Jul-03	8.2004	Jul-04	7.2799	(0.9205)	(31,547)
Aug-03	8.2004	Aug-04	7.2799	(0.9205)	(30,420)
Sep-03	8.2004	Sep-04	7.2799	(0.9205)	(33,800)
Oct-03	8.2004	Oct-04	7.2799	(0.9205)	(47,320)

Estimated Summer Season Change in Revenue (351,522)

Percent Change Between PGA Factors -11.23%

Firm Sales Volume @ Burnertip

1,468,777

Month	Estimated Customer Usage Mcf/Mnth	Estimated % Mcf/Yr	Estimated Company Sales Mcf/Mnth
Jan	23.6	19.67%	288,859
Feb	21.7	18.08%	265,604
Mar	15.9	13.25%	194,613
Apr	9.6	8.00%	117,502
May	5.3	4.42%	64,871
Jun	3.6	3.00%	44,063
Jul	2.8	2.33%	34,271
Aug	2.7	2.25%	33,047
Sep	3	2.50%	36,719
Oct	4.2	3.50%	51,407
Nov	9.7	8.08%	118,726
Dec	<u>17.9</u>	<u>14.92%</u>	<u>219,093</u>
TOTAL	120	100%	1,468,777

Note: Estimated Customer Usage Obtained from Missouri Public Service Commission.

**Aquila Networks
Eastern System
2003-2004 Summer Season Revenue Impact**

Original Calculation Filed

Month	PGA Factor	Month	PGA Factor	PGA Change (03/04)	Revenue Impact (Summer Season)
Apr-03	9.1868	Apr-04	10.0021	0.8153	24,724
May-03	9.1868	May-04	10.0021	0.8153	13,650
Jun-03	9.1868	Jun-04	10.0021	0.8153	9,272
Jul-03	9.1868	Jul-04	10.0021	0.8153	7,211
Aug-03	9.1868	Aug-04	10.0021	0.8153	6,954
Sep-03	9.1868	Sep-04	10.0021	0.8153	7,726
Oct-03	9.1868	Oct-04	10.0021	0.8153	10,817

Estimated Summer Season Change in Revenue 80,354

Percent Change Between PGA Factors 8.87%

Firm Sales Volume @ Burnertip

379,066

Month	Estimated Customer Usage Mcf/Mnth	Estimated % Mcf/Yr	Estimated Company Sales Mcf/Mnth
Jan	23.6	19.67%	74,550
Feb	21.7	18.08%	68,548
Mar	15.9	13.25%	50,226
Apr	9.6	8.00%	30,325
May	5.3	4.42%	16,742
Jun	3.6	3.00%	11,372
Jul	2.8	2.33%	8,845
Aug	2.7	2.25%	8,529
Sep	3	2.50%	9,477
Oct	4.2	3.50%	13,267
Nov	9.7	8.08%	30,641
Dec	17.9	14.92%	56,544
TOTAL	120	100%	379,066

Note: Estimated Customer Usage Obtained from Missouri Public Service Commission.