

PEOPLES NATURAL GAS
ENERGYONE

November 3, 2000

Mr. Dale Hardy Roberts, Secretary/Chief Regulatory Law Judge
Missouri Public Service Commission
200 Madison St
Jefferson City, MO 65102

FILED

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Missouri Public
Service Commission

RE: Case No. GR-2000-520

Dear Mr. Roberts:

Enclosed are an original and two copies of PSC MO. No. 5, 21st Revised Sheet No. 43, 24th Revised Sheet No. 44 and 14th Revised Sheet No. 44.1 reflecting a change in the Purchased Gas Adjustment, Actual Cost Adjustment, Refund Factor, Take-Or-Pay Factor, Transition Cost Factor and Deferred Carrying Cost Balance of the Missouri Public Service Purchased Gas Adjustment Clause.

The Purchased Gas Adjustment Clause for Missouri Public Service (MPS) requires an annual actual cost adjustment for the over recovery or under recovery resulting from the operation of the Regular Purchased Gas Adjustment section of the Purchased Gas Adjustment Clause and a calculation of the Winter Period Purchased Gas Adjustment. Reconciliations for the Refund Factors, Transition Cost Factors and Deferred Carrying Cost Balance are also required.

Purchased Gas Adjustment

Enclosures 1, 2 and 3 reflect the Purchased Gas Adjustment (PGA) calculations for the Southern System, Northern System and Eastern System. Each PGA has been developed using NYMEX pricing weighted for the months of November 2000 through March 2001. The tariff rate changes for the Southern System are based on the Williams Gas Pipelines Central, Inc. filings of their FERC Gas Tariffs, Eleventh Revised Sheet No. 6, Sixteenth Revised Sheet No. 6A and Substitute Second Revised Sheet No. 6B. 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, Fifty-Seventh Revised Sheet No. 5, Sixtieth Revised Sheet No. 7, Tenth Revised Sheet No. 9, Twelfth Revised Sheet No. 11 and Twenty-Sixth Revised Sheet No. 19.

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Actual Cost Adjustment

Enclosed as Enclosure 4 are minimum filing requirement schedules that are the basis of the Actual Cost Adjustment portion of this filing. Schedule 4 of Enclosure 4 is a summary showing revenue, purchased gas costs, and over or under recovery for the year ended August 2000 and the proposed changes in the ACA rates to be effective November 21, 2000. Detailed supporting workpapers are available for the Commission Staff audit.

The summary schedule shows that revenue recovery was less than purchased gas cost in the amount of \$989,909.52 for the Southern System, less than purchased gas cost in the amount of \$800,065.36 for the Northern System and less than purchased gas cost in the amount of \$872,698.98 for the Eastern System. Total revenue recovery was \$2,662,673.86 less than purchased gas cost.

Under separate cover, Missouri Public Service has filed a waiver requesting a variance from the provision of its tariff that requires the recovery of the ACA balance over a one-year period. MPS requests that it be allowed to recover that balance on its Eastern System over a three-year period.

Southern System Refund Factor

Enclosed as Enclosure 5 is a summary schedule detailing the activity for the refund factor under the Southern System. MPS received a refund from Williams Gas Pipelines Central, Inc. on September 12, 2000 in the amount of \$1,240.51 relating to Federal Energy Regulatory Commission (FERC) Docket No. RP00-302. Interest has been calculated by MPS at the annual rate of six percent from the date the refunds were received by MPS until six months after the refund rate is scheduled to be in effect in accordance with our Purchased Gas Adjustment Clause. Missouri Public Service has determined a new refund factor for the Southern System.

Northern System Refund Factor

Enclosed as Enclosure 6 is a summary schedule that details the activity for the refund factor under the Northern System. MPS received a refund from Panhandle Eastern Pipe Line Co. on June 14, 2000 in the amount of \$42,040.00 relating to Federal Energy Regulatory Commission (FERC) Docket No. RP91-299-000, et al. Interest has been calculated by MPS at the annual rate of six percent from the date the refunds were received by MPS until six months after the refund rate is scheduled to be in effect in accordance with our Purchased Gas Adjustment Clause. Missouri Public Service has determined a new refund factor for the Northern System.

Transition Cost - Southern System

Enclosure 7 lists the history of the payments made by Missouri Public Service to Williams Gas Pipelines Central, Inc. and the recovery of these payments from the Southern System customers. All of the payments have been made to Williams Gas Pipelines Central, Inc. on behalf of the Southern System customers. Williams Gas Pipelines Central, Inc. has ceased billings to Missouri Public Service for Transition costs. Missouri Public Service is carrying forward the remaining over recovery balance of \$4,044.75 to the annual ACA calculation.

Deferred Carrying Cost Balance

Enclosures 8, 9 and 10 reflect the Deferred Carrying Cost Balances for the Southern System, Northern System and Eastern System. Carrying costs are calculated on all Deferred Carrying Cost Balances that exceed ten percent of an average annual gas cost threshold. This results in carrying costs collected from the customer in the amount of \$959 for the Southern System, \$978 for the Northern System, and \$15,232 for the Eastern System.

Enclosures 11, 12 and 13 reflect the seasonal revenue impact associated with the gas cost recovery portion of the rates. The seasonal revenue impact results in an increase in the amount of \$6,346,828 or 61.42% for the Southern System, an increase in the amount of \$2,789,081 or 62.03% for the Northern System and an increase in the amount of \$875,215 or 50.74% for the Eastern System.

Enclosure 14 addresses issues from MO PSC Case No. GR-99-435. Detailed supporting workpapers are included for Commission Staff review.

Missouri Public Service respectfully requests that these rates become effective with volumes taken on and after November 21, 2000.

Sincerely,



Kent Kopetzky
Regulatory Analyst

Enclosures
cc: Office of the Public Counsel (2)

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.

5

21st

(Original)
(Revised)
(Original)
(Revised)

SHEET NO.

43

Canceling P.S.C. MO. No.

5

20th

SHEET NO.

43

MISSOURI PUBLIC SERVICE
KANSAS CITY, MO 64138

FOR: Southern System

PURCHASED GAS ADJUSTMENT CLAUSE
(CONTINUED)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	\$.56941	\$.56941	\$.52580
Actual Cost Adjustment	\$.02614	\$.02614	\$(-.00777)
Refunds	\$(-.00598)	\$(-.00598)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.58957	\$.58957	\$.51803

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.

The ACA, Refund, TOP and TC factors as contained herein shall apply to all Ccf delivered to end-users receiving service under the Experimental SVTS-A schedule on an interim basis until the effective date of the Company's scheduled winter 2001 PGA filing.

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.

5

24th

(Original)

SHEET NO.

44

Cancelling P.S.C. MO. No.

5

23rd

(Revised)

SHEET NO.

44

(Original)

(Revised)

MISSOURI PUBLIC SERVICE
KANSAS CITY, MO 64138

FOR: Northern System

PURCHASED GAS ADJUSTMENT CLAUSE
(CONTINUED)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	\$.62578	\$.62578	\$.51679
Actual Cost Adjustment	\$.04738	\$.04738	\$ -0-
Refunds	\$ (.00289)	\$ (.00289)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.67027	\$.67027	\$.51679

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.

The ACA, Refund, TOP and TC factors as contained herein shall apply to all Ccf delivered to end-users receiving service under the Experimental SVTS-A schedule on an interim basis until the effective date of the Company's scheduled winter 2001 PGA filing.

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No.

5

14th

(Original)
(Revised)

SHEET NO.

44.1

Canceling P.S.C. MO. No.

5

13th

(Original)
(Revised)

SHEET NO.

44.1

MISSOURI PUBLIC SERVICE
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	\$.85016	\$.85016	\$.72318
Actual Cost Adjustment	\$.07674	\$.07674	\$ -0-
Refunds	\$ -0-	\$ -0-	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.92690	\$.92690	\$.72318

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.

The ACA, Refund, TOP and TC factors as contained herein shall apply to all Ccf delivered to end-users receiving service under the Experimental SVTS-A schedule on an interim basis until the effective date of the Company's scheduled winter 2001 PGA filing.

MISSOURI PUBLIC SERVICE
Southern System Annualized Gas Cost Calculation
To Reflect Current WNG & Spot Market Rates

Enclosure 1

FIRM	Annual Volume	Monthly Capacity Reserved	No. of Mth Reserved	Tariff Rate	Annual Cost
<u>Williams Natural Gas</u>					
TSS					
No-Notice Fee		39,618	12	\$0.0154	\$7,321
Reservation - FSS Deliverability		25,412	12	\$0.5083	\$155,003
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	\$0.1230	\$58,476
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	\$0.1230	\$15,485
GSR Costs					\$250,608
Spot Market Purchases	3,896,019			\$4.5752	\$17,825,066
Total Annual Cost					<u>\$21,769,191</u>
Sales Volume at Burnertip	3,823,123				
Cost per MCF at Burnertip					<u>\$5.6941</u>

Highest WACOG (Winter Period)	Nov 97 - Mar 98	Nov 98 - Mar 99	Nov 99 - Mar 00	Average WACOG
	\$2.4154	\$2.3420	\$2.6331	\$2.4635
Highest Avg WACOG-Winter Period (Avg of summer seasons with the highest of 3 averages)				\$2.5483
				November 2000 Gas Commodity Costs \$4.5752

INTERRUPTIBLE

<u>Williams Natural Gas</u>				
ITS-P			<u>@150%</u>	
Commodity	126,784		\$0.3095	\$39,233
ITS-M			<u>@150%</u>	
Commodity	125,491		\$0.1614	\$20,254
Spot Market Price Per MCF		128,519	\$4.5752	\$588,001
Total Annual Cost				<u>\$647,488</u>
Sales Volume at Burnertip		123,143		
Cost per MCF at Burnertip				\$5.2580

MISSOURI PUBLIC SERVICE - SOUTHERN SYSTEM
Gas Cost Inputs

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

WNG Rates

Firm Rates

TSS

No-Notice Fee \$0.0154
 Reservation - FSS Deliverability \$0.5083
 Reservation - FSS Capacity \$0.0290
 Reservation - FTS-P \$5.6118
 Reservation - FTS-M \$2.8014
 GRI \$0.1230

FTS

Production - Reservation \$5.6118
 Production - Balancing \$0.1604
 Market - Reservation \$2.8014
 Market - Balancing \$0.1604
 Market - GRI \$0.1230

Production

Commodity - FTS-P \$0.0124
 GRI Funding Unit - Commodity - Others \$0.0072
 FERC Annual Charge Adjustment \$0.0022
 Production Field Zone \$0.0218

Commodity - FTS-M \$0.0061
 GRI Funding Unit - Commodity - Others \$0.0072
 FERC Annual Charge Adjustment \$0.0022
 Market Zone \$0.0155

Injection/Withdrawal - FSS \$0.0122

Interruptible Rates

ITS-P

Commodity-Winter \$0.1969

ITS-M

Commodity-Winter \$0.0982
 GRI Funding Unit - Commodity - Others \$0.0072
 FERC Annual Charge Adjustment \$0.0022

WNG Production Area Loss 1.35%

WNG Market Area Loss 1.02%

WNG Storage Loss 4.45%

Note: From FERC Gas Tariff: Eleventh Revised Sheet No. 6 Effective 11/1/99, Sixteenth Revised Sheet No. 6A Effective 4/27/00, and Substitute Second Revised Sheet No. 6B Effective 1/1/00.

Calculated Inputs

	<u>Firm</u>	<u>Storage</u>	Total <u>Firm</u>	<u>Interruptible</u>	Total <u>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	2,841,448	1,094,718	3,936,166	126,784	4,062,950
Annual Throughput at Wellhead	2,880,333	1,109,699	3,990,032	128,519	4,118,551

Missouri Public Service
Division of UtiliCorp United Inc.
Southern System
Current Gas Cost Calculation

	<u>Nov-00</u>	<u>Dec-00</u>	<u>Jan-01</u>	<u>Feb-01</u>	<u>Mar-01</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Sales Requirements	266,113	601,220	717,173	498,242	387,866	2,470,614
WNG Market Area Loss	1.02%	1.02%	1.02%	1.02%	1.02%	
WNG Production Area Loss	1.35%	1.35%	1.35%	1.35%	1.35%	
Total Supply - Fuel Loss	272,535	615,728	734,479	510,265	397,226	
Storage Injection	0	0	0	0	0	0
Storage Injection Loss	4.45%	4.45%	4.45%	4.45%	4.45%	
Total Storage - Fuel Loss	0	0	0	0	0	

(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	272,535	615,728	734,479	510,265	397,226	2,530,233
Contracted Fixed Price Supply	285,150	294,655	294,655	266,140	294,655	1,435,255
Contracted Price	\$ 4.5003	\$ 4.5003	\$ 4.5003	\$ 4.5003	\$ 4.5003	
Total Cost	\$ 1,283,261	\$ 1,326,036	\$ 1,326,036	\$ 1,197,710	\$ 1,326,036	6,459,079

(Contracted Fixed Price Supply only applies in the winter months.)

Total Supply (Purchases Less Fixed)	0	321,073	439,824	244,125	102,571	1,107,593
Forecasted Price (NYMEX-WNG Basis)*	\$ 4.449	\$ 4.368	\$ 4.388	\$ 4.238	\$ 4.048	
Total Cost	\$ -	\$ 1,402,447	\$ 1,929,948	\$ 1,034,602	\$ 415,207	\$ 4,782,204

Storage Withdrawal	111,077	199,165	222,226	169,815	63,851	766,134
Storage WACOG	\$ 3.6900	\$ 3.6900	\$ 3.6900	\$ 3.6900	\$ 3.6900	
Total Cost	\$ 409,873	\$ 734,918	\$ 820,014	\$ 626,616	\$ 235,611	\$ 2,827,032

Forecasted Gas Commodity Cost 1,693,134 3,463,401 4,075,998 2,858,928 1,976,854 14,068,315

Forecasted Sales Gas Quantity 396,227 814,893 956,705 680,080 461,077 3,308,982

Gas Cost (Commodity) Dth \$4.2516

SUMMARY OF UPSTREAM COSTS

Williams Natural Gas Pipeline - Firm						
FT Commodity (Production Area)	272,535	615,728	734,479	510,265	397,226	
FT Commodity (Market Area)	268,855	607,416	724,564	503,376	391,863	
Total Units	541,390	1,223,144	1,459,043	1,013,641	789,089	5,026,307

Cost/Dth - Production Area	\$0.0218	\$0.0218	\$0.0218	\$0.0218	\$0.0218	
Cost/Dth - Market Area	\$0.0155	\$0.0155	\$0.0155	\$0.0155	\$0.0155	
Total WNG Commodity Costs	\$10,109	\$22,838	\$27,242	\$18,926	\$14,733	\$93,848

Forecasted Northern Upstream Costs 10,109 22,838 27,242 18,926 14,733 93,848

Forecasted Firm Sales Quantity 396,227 814,893 956,705 680,080 461,077 3,308,982

Upstream Cost/Dth \$0.0284

Wellhead Cost of Gas

\$ 4.2800

Missouri Public Service
Division of UtiliCorp United Inc.
Southern System
Gas Commodity Cost Calculation

INSIDE FERC NOVEMBER 2000	\$ 4.43	
WNG Market Area Loss	1.02%	
WNG Production Area Loss	<u>1.35%</u>	
WNG Index Adjusted for Fuel	\$ 4.5369	
WNG Cost/Dth Field Zone	\$0.0218	
WNG Cost/Dth - Market Zone	<u>\$0.0155</u>	
	\$4.5742	
Total Gas Commodity Costs	<table border="1"><tr><td>\$4.5742</td></tr></table>	\$4.5742
\$4.5742		

MISSOURI PUBLIC SERVICE
Northern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates

Enclosure 2

	<u>Annual Volume</u>	<u>Monthly Capacity Reserved</u>	<u>No. Of Mth Reserved</u>	<u>Tariff/ Contracted Rate</u>	<u>Annual Cost</u>
FIRM					
<u>Panhandle Eastern Pipe Line</u>					
Contract 17005					
<u>EFT Reservation Rates</u>					
Field Zone Reservation		18,000	5	\$4.1676	\$375,087
Market Zone Access		18,000	5	\$2.9023	\$261,207
Market Zone Mileage		18,000	5	\$1.5927	\$143,345
Field Zone Reservation		10,000	7	\$4.1676	\$291,735
Market Zone Access		10,000	7	\$2.9023	\$203,161
Market Zone Mileage		10,000	7	\$1.5927	\$111,491
					\$0
					\$0
Contract 17004					
FS Storage	800,000			\$1.1081	\$886,480
Spot Market Purchases	1,521,875			\$4.5462	\$6,918,748
Total Annual Cost					<u>\$9,191,254</u>
Sales Volume at Burnertip	1,468,777				
Cost per MCF at Burnertip					<u>\$6.2578</u>

Highest WACOG (Winter Period)	Nov 97 - Mar 98	Nov 98 - Mar 99	Nov 99 - Mar 00	Average WACOG
	\$2.4218	\$2.1525	\$2.3949	\$2.3231
Highest Avg WACOG-Winter Period (Avg of winter seasons with the highest 3 averages)				\$2.3724
				November 2000 Gas Commodity Costs
				\$4.5462

INTERRUPTIBLE		
<u>Panhandle Eastern Pipe Line</u>		
<u>IT Interruptible Rates</u>		<u>@150%</u>
Field Zone		\$0.2621
Market Zone Access		\$0.1382
Market Zone Mileage		\$0.0999
GRI Funding Unit		\$0.0999
ACA Unit Charge		\$0.0033
TOP Volumetric Surcharge		\$0.0000
Settlement Surcharges		(\$0.0005)
Canadian Resolution Surcharges		\$0.0000
Stranded Transportation Cost Surcharge		\$0.0000
Miscellaneous Stranded Costs Surcharge		\$0.0189
Spot Market Price Per MCF	\$4.5462	\$4.5462
Total Annual Cost		<u>\$5.1679</u>
Sales Volume at Burnertip		
Cost per MCF at Burnertip		<u>\$5.1679</u>

MISSOURI PUBLIC SERVICE - NORTHERN SYSTEM
Gas Cost Inputs

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

<u>PEPL Rates</u>	<u>Tariff</u>	<u>Contract</u>
<u>PEPL EFT Reservation Rates</u>	<u>Rate</u>	<u>17005</u>
		<u>Discount Rate</u>
Field Zone Reservation	\$4.7100	\$4.1676
Market Zone Access	\$3.2800	\$2.9023
Market Zone Mileage 201-300 Block	\$1.8000	\$1.5927
GRI Funding Unit	\$0.2000	
Settlement Surcharges	\$0.0000	
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	\$0.0075
GRI Funding Unit	\$0.0000
ACA Unit Charge	\$0.0022
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Total Market Zone Commodity	\$0.0100

<u>PEPL IT Interruptible Rates</u>	
Field Zone	\$0.1747
Market Zone Access	\$0.0921
Market Zone Mileage	\$0.0666
GRI Funding Unit	\$0.0666
ACA Unit Charge	\$0.0022
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Canadian Resolution Surcharges	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0126

<u>PEPL Flexible Storage Rates</u>	
FS 100% load factor	\$1.1147
FS commodity	\$0.0066

<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>

PEPL Gathering Loss	0.37%
PEPL Field Zone Loss	0.81%
PEPL Market Zone Loss	1.20%
PEPL Storage Injection Loss	1.28%
PEPL Storage Withdrawal Loss	0.25%

Note: From FERC Gas Tariff: PEPL Fifty-Seventh Revised Sheet No. 5 Effective 6/01/00 , Sixtieth Revised Sheet No. 7 Effective 10/01/00, Tenth Revised Sheet No. 9 Effective 11/01/99, Twelfth Revised Sheet No. 11 Effective 11/01/99 and Twenty-Sixth Revised Sheet No. 19 Effective 10/01/00

Missouri Public Service
Division of UtiliCorp United Inc.
Northern System
Current Gas Cost Calculation

	<u>Nov-00</u>	<u>Dec-00</u>	<u>Jan-01</u>	<u>Feb-01</u>	<u>Mar-01</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Sales Requirements	103,944	214,226	248,757	177,858	128,477	873,262
PEPL Market Zone Fuel Loss	1.20%	1.20%	1.20%	1.20%	1.20%	
PEPL Field Zone Fuel Loss	0.81%	0.81%	0.81%	0.81%	0.81%	
Gathering Fuel Loss	0.37%	0.37%	0.37%	0.37%	0.37%	
Total Supply - Fuel Loss	106,460	219,410	254,777	182,162	131,586	
Storage Injection	0	0	0	0	0	0
Storage Injection Loss	1.28%	1.28%	1.28%	1.28%	1.28%	
Total Storage - Fuel Loss	0	0	0	0	0	
Purchase Requirements	106,460	219,410	254,777	182,162	131,586	894,395
Total Supply	106,460	219,410	254,777	182,162	131,586	894,395
Forecasted Price (NYMEX-PEPL Basis)	\$ 4.4360	\$ 4.3550	\$ 4.3750	\$ 4.2250	\$ 4.0350	
Total Cost	\$ 472,257	\$ 955,531	\$ 1,114,649	\$ 769,634	\$ 530,950	3,843,021
Storage Withdrawal (17007)	90,000	201,500	232,500	140,000	136,000	800,000
Storage WACOG (17007)	\$ 3.7996	\$ 3.7996	\$ 3.7996	\$ 3.7996	\$ 3.7996	
Total Cost	\$ 341,964	\$ 765,619	\$ 883,407	\$ 531,944	\$ 516,746	\$ 3,039,680
Forecasted Gas Commodity Cost	814,221	1,721,150	1,998,056	1,301,578	1,047,696	6,882,701
Forecasted Sales Gas Quantity	196,460	420,910	487,277	322,162	267,586	1,694,395
Gas Cost (Commodity) Dth						\$4.0620
SUMMARY OF UPSTREAM COSTS						
Panhandle Eastern Pipeline - Firm						
FT Commodity (Field Zone)	106,066	218,599	253,834	181,488	131,099	
FT Commodity (Market Zone)	105,206	216,828	251,778	180,018	130,037	
Total Units	211,272	435,427	505,612	361,506	261,136	1,774,953
Cost/Dth - Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	\$0.0100	\$0.0100	\$0.0100	\$0.0100	\$0.0100	
Total Panhandle Commodity Costs	\$3,120	\$6,431	\$7,468	\$5,339	\$3,857	26,215
Forecasted Northern Upstream Costs	3,120	6,431	7,468	5,339	3,857	26,215
Forecasted Firm Sales Quantity	196,460	420,910	487,277	322,162	267,586	1,694,395
Upstream Cost/Dth						\$0.0155

Wellhead Cost of Gas

\$ 4.0775

Missouri Public Service
Division of UtiliCorp United Inc.
Northern System
Gas Commodity Cost Calculation

Inside FERC Posted Price November 00	\$4.41	
PEPL Market Zone Fuel Loss	1.20%	
PEPL Field Zone Fuel Loss	0.81%	
Gathering Fuel Loss	<u>0.37%</u>	
PEPL Index Adjusted for Fuel	\$ 4.5167	
PEPL Cost/Dth Field Zone	\$0.0195	
PEPL Cost/Dth - Market Zone	<u>\$0.0100</u>	
	\$4.5462	
Total Gas Commodity Costs	<table border="1"><tr><td>\$4.5462</td></tr></table>	\$4.5462
\$4.5462		

MISSOURI PUBLIC SERVICE
**Eastern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates**
Enclosure 3

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)		5,200	5	\$4.7100	\$122,460
FT Reservation (Market Zone)		5,200	5	\$5.8800	\$152,880
					<u>\$275,340</u>
Winter Sales Volume at Burnertip	273,300				
Winter Cost per MCF at Burnertip					<u>\$1.0075</u>
Summer (Apr-Oct) Volumetric Rate					
100% LF of Max Rate (Fld-4 Blks)					\$0.3482
Summer Cost per MCF at Burnertip					<u>\$0.3482</u>
<u>Missouri Pipeline Company</u>					
Rolla					
FT Reservation		2,695	12	\$4.3181	\$139,647
Salem					
FT Reservation		2,500	12	\$1.0000	\$30,000
Owensville					
FT Reservation		1,900	12	\$0.5000	\$11,400
<u>Missouri Gas Company</u>					
Rolla					
FT Reservation		2,695	12	\$5.7500	\$185,955
Salem					
FT Reservation		2,500	12	\$13.1700	\$395,100
Owensville					
FT Reservation		1,900	12	\$8.0000	\$182,400
Total Eastern System MoPipe & MoGas Costs					<u>\$944,502</u>
Spot Market Purchases	380,336			\$4.9858	\$1,896,281
Total Eastern System Costs					<u>\$2,840,783</u>
Sales Volume at Burnertip	<u>379,066</u>				
Cost per MCF at Burnertip					<u>\$7.4942</u>
Winter PGA					
Total Cost per MCF at Burnertip					<u>\$8.5016</u>
Highest WACOG (Winter Period)					
		Nov 97 - Mar 98	Nov 98 - Mar 99	Nov 99 - Mar 00	Average WACOG
		\$2.3285	\$2.0449	\$2.6531	\$2.3422
Highest Avg WACOG-Winter Period (Avg of summer seasons with the highest of 3 averages)					\$2.4976
					November 2000 Gas Commodity Costs
					\$4.9858
<u>INTERRUPTIBLE</u>					
<u>Panhandle Eastern Pipe Line</u>					
IT (Field Zone)	\$0.1747		@ 150%		\$0.2621
IT (Market Zone)	\$0.2026		@ 150%		\$0.3039
<u>Missouri Pipeline Company</u>					
Commodity	\$0.3036				\$0.3036
<u>Missouri Gas Company</u>					
Commodity	\$1.3765				\$1.3765
Spot Market Price Per MCF	\$4.9858				\$4.9858
Cost per MCF at Burnertip					<u>\$7.2318</u>

MISSOURI PUBLIC SERVICE - EASTERN SYSTEM

Gas Cost Inputs

MPS Line Loss	0.334%
MoGas/MoPipe Line Loss	0.43%

PEPL RATES

PEPL EFT Reservation Rates

Field Zone Reservation	\$4.71
Market Zone Access	\$3.28
Market Zone Mileage 301-400 Block	\$2.40
GRI Funding Unit	\$0.2000
Settlement Surcharges	\$0.0000
Canadian Resolution Surcharges	\$0.0000
GSR Surcharge	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0000

PEPL Interruptible Rates

Field Zone	\$0.1747
Market Zone Access	\$0.0921
Market Zone Mileage	\$0.0888
GRI Funding Unit	\$0.0072
ACA Unit Charge	\$0.0022
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	(\$0.0003)
Canadian Resolution Surcharges	\$0.0000
Stranded Transportation Cost Surcharge	\$0.0000
Miscellaneous Stranded Costs Surcharge	\$0.0126

PEPL Gathering Loss	0.37%
PEPL Field Zone Loss	0.81%
PEPL Market Zone Loss	1.60%

PEPL EFT Commodity Rates

Market Zone Access	\$0.0006
Market Zone Mileage 301-400	\$0.0100
GRI Funding Unit	\$0.0072
ACA Unit Charge	\$0.0022
TOP	\$0.0000
Settlement Charges	(\$0.0003)

EFT Commodity Rates	\$0.0197
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Field Zone Commodity	\$0.0195
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Total EFT Commodity Rates	\$0.0392
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Note: From FERC Gas Tariff: PEPL Fifty-Seventh Revised Sheet No. 5 Effective 6/01/00, Sixtieth Revised Sheet No. 7 Effective 10/01/00, and Twenty-Sixth Revised Sheet No. 19 Effective 10/01/00.

Annual Throughput at Burnertip	379,066
Annual Throughput at Citygate	380,336
MOGAS & MPC	381,979
Annual Throughput at Wellhead	391,360

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

Missouri Public Service
Division of UtiliCorp United Inc.
Eastern System
Current Gas Cost Calculation

	<u>Nov-00</u>	<u>Dec-00</u>	<u>Jan-01</u>	<u>Feb-01</u>	<u>Mar-01</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Sales Requirements	18,362	67,793	73,618	50,261	37,354	247,388
MoGas/MoPipe Fuel Loss	0.43%	0.43%	0.43%	0.43%	0.43%	
PEPL Market Zone Fuel Loss	1.60%	1.60%	1.60%	1.60%	1.60%	
PEPL Field Zone Fuel Loss	0.81%	0.81%	0.81%	0.81%	0.81%	
Gathering Fuel Loss	<u>0.37%</u>	<u>0.37%</u>	<u>0.37%</u>	<u>0.37%</u>	<u>0.37%</u>	
Total Supply - Fuel Loss	18,964	70,017	76,033	51,910	38,579	255,503
Total Supply	18,964	70,017	76,033	51,910	38,579	255,503
Forecasted Price (NYMEX-PEPL Basis)*	\$ 4.4360	\$ 4.3550	\$ 4.3750	\$ 4.2250	\$ 4.0350	
Total Cost	\$ 84,124	\$ 304,924	\$ 332,644	\$ 219,320	\$ 155,666	\$ 1,096,678
<u>Forecasted Gas Commodity Cost</u>	\$ 84,124	\$ 304,924	\$ 332,644	\$ 219,320	\$ 155,666	\$ 1,096,678
<u>Forecasted Sales Gas Quantity</u>	18,964	70,017	76,033	51,910	38,579	255,503
<u>Gas Cost (Commodity) Dth</u>						\$4.2922
SUMMARY OF UPSTREAM COSTS						
Panhandle Eastern Pipeline - Firm						
FT Commodity (Field Zone)	18,894	69,758	75,752	51,718	38,437	
FT Commodity (Market Zone)	18,741	69,193	75,138	51,299	38,125	
Total Units	37,635	138,951	150,890	103,017	76,562	
Cost/Dth Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	<u>\$0.0197</u>	<u>\$0.0197</u>	<u>\$0.0197</u>	<u>\$0.0197</u>	<u>\$0.0197</u>	
Total Panhandle Commodity Costs	\$738	\$2,723	\$2,957	\$2,019	\$1,501	\$9,938
Missouri Pipeline Company - Firm						
Rolla						
FT Commodity	12,123	44,759	48,605	33,185	24,663	
Salem						
FT Commodity	4,660	17,205	18,683	12,755	9,479	
Owensville						
FT Commodity	1,656	6,114	6,639	4,532	3,368	
Total Units	18,439	68,078	73,927	50,472	37,510	248,426
Cost/Dth - Rolla	\$0.1699	\$0.1699	\$0.1699	\$0.1699	\$0.1699	
Cost/Dth - Salem	\$0.0750	\$0.0750	\$0.0750	\$0.0750	\$0.0750	
Cost/Dth - Owensville	<u>\$0.0500</u>	<u>\$0.0500</u>	<u>\$0.0500</u>	<u>\$0.0500</u>	<u>\$0.0500</u>	
Total MoPipe Commodity Costs	\$2,492	\$9,201	\$9,991	\$6,821	\$5,070	\$33,575
Missouri Gas Company - Firm						
Rolla						
FT Commodity	12,071	44,566	48,396	33,042	24,557	
Salem						
FT Commodity	4,640	17,131	18,603	12,700	9,438	
Owensville						
FT Commodity	1,649	6,088	6,610	4,513	3,354	
Total Units	18,360	67,785	73,609	50,255	37,349	247,360
Cost/Dth - Rolla	\$0.2500	\$0.2500	\$0.2500	\$0.2500	\$0.2500	
Cost/Dth - Salem	\$0.3200	\$0.3200	\$0.3200	\$0.3200	\$0.3200	
Cost/Dth - Owensville	<u>\$0.0800</u>	<u>\$0.0800</u>	<u>\$0.0800</u>	<u>\$0.0800</u>	<u>\$0.0800</u>	
Total MoGas Commodity Costs	\$4,634	\$17,111	\$18,581	\$12,686	\$9,428	\$62,440
Total MoPipe & MoGas Costs	\$7,126	\$26,312	\$28,572	\$19,507	\$14,498	\$96,015
<u>Forecasted Eastern Upstream Costs</u>	\$7,864	\$29,035	\$31,529	\$21,526	\$15,999	\$105,953
<u>Forecasted Firm Sales Quantity</u>	18,964	70,017	76,033	51,910	38,579	255,503
<u>Upstream Cost/Dth</u>						\$0.4147

Wellhead Cost of Gas

\$4.7069

Missouri Public Service
Division of UtiliCorp United Inc.
Eastern System
Gas Commodity Cost Calculation

Inside FERC Posted Price November 00	\$ 4.41
MoGas/MoPipe Fuel Loss	0.43%
PEPL Market Zone Fuel Loss	1.60%
PEPL Field Zone Fuel Loss	0.81%
Gathering Fuel Loss	<u>0.37%</u>

PEPL Index Adjusted for Fuel	\$ 4.5547
PEPL Cost/Dth Field Zone	\$0.0195
PEPL Cost/Dth - Market Zone	<u>\$0.0197</u>
Total PEPL Commodity Cost	\$4.5939

PEPL Cost	\$4.5939
MoPipe Cost/Dth - Rolla	\$0.1699
MoGas Cost/Dth - Rolla	\$0.2500
Rolla	\$5.0138

PEPL Cost	\$4.5939
MoPipe Cost/Dth - Salem	\$0.0750
MoGas Cost/Dth - Salem	\$0.3200
Total Salem	\$4.9889

PEPL Cost	\$4.5939
MoPipe Cost/Dth - Owensville	\$0.0500
MoGas Cost/Dth - Owensville	\$0.0800
Total Owensville	\$4.7239

		Percent Split		
Rolla	\$5.0138	69.85%	\$	3.5021
Salem	\$4.9889	22.42%	\$	1.1185
Owensville	\$4.7239	7.73%	\$	0.3652

\$ 4.9858

Total Gas Commodity Costs	\$ 4.9858
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MPS WACOG CAP

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
SOUTHERN SYSTEM (97/98):						
Purchase Volumes	9,751	272,146	290,873	3,569	104,388	680,727
Commodity Cost (Highest)	\$3.2210	\$2.5199	\$2.3496	\$2.1093	\$2.2616	
Total Commodity Costs	\$31,408	\$685,781	\$683,435	\$7,528	\$236,084	\$1,644,236
				Weighted Avg. Commodity Costs		\$2.4154
SOUTHERN SYSTEM (98/99):						
Purchase Volumes	263,848	270,720	363,568	253,428	285,324	1,436,888
Commodity Cost (Highest)	\$2.3688	\$2.3683	\$2.2638	\$2.3683	\$2.3683	
Total Commodity Costs	\$625,004	\$641,158	\$823,027	\$600,202	\$675,742	\$3,365,133
				Weighted Avg. Commodity Costs		\$2.3420
SOUTHERN SYSTEM (99/00):						
Purchase Volumes	83,761	143,179	135,751	127,598	3,457	493,746
Commodity Cost (Highest)	\$2.9280	\$2.5717	\$2.5717	\$2.5717	\$2.7109	
Total Commodity Costs	\$245,252	\$368,208	\$349,105	\$328,139	\$9,372	\$1,300,076
				Weighted Avg. Commodity Costs		\$2.6331
				Average of 3 Periods		\$2.4635
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$2.4395
November, 2000 Gas Commodity Cost						\$4.5742

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
NORTHERN SYSTEM (97/98):						
Purchase Volumes	42,762	28,896	68,636	44,263	11,348	195,905
Commodity Cost (Highest)	\$3.4250	\$2.3625	\$2.1625	\$1.9425	\$2.2300	
Total Commodity Costs	\$146,460	\$68,267	\$148,425	\$85,981	\$25,306	\$474,439
				Weighted Avg. Commodity Costs		\$2.4218
NORTHERN SYSTEM (98/99):						
Purchase Volumes	101	84,593	62,000	85,827	31	232,552
Commodity Cost (Highest)	\$2.2000	\$2.0853	\$2.2975	\$2.1142	\$1.5800	
Total Commodity Costs	\$222	\$176,399	\$142,445	\$181,454	\$49	\$500,569
				Weighted Avg. Commodity Costs		\$2.1525
NORTHERN SYSTEM (99/00):						
Purchase Volumes	25,423	153,721	20,848	59,887	10,490	270,369
Commodity Cost (Highest)	\$2.9475	\$2.2472	\$2.3804	\$2.5050	\$2.6216	
Total Commodity Costs	\$74,934	\$345,435	\$49,627	\$150,017	\$27,500	\$647,513
				Weighted Avg. Commodity Costs		\$2.3949
				Average of 3 Periods		\$2.3231
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$2.3724
November, 2000 Gas Commodity Cost						\$4.5462

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
EASTERN SYSTEM (97/98):						
Purchase Volumes	43,562	61,000	59,076	43,092	50,876	257,606
Commodity Cost (Highest)	\$3.1725	\$2.3300	\$2.1400	\$1.9425	\$2.1500	
Total Commodity Costs	\$138,200	\$142,130	\$126,423	\$83,706	\$109,383	\$599,842
				Weighted Avg. Commodity Costs		\$2.3285
EASTERN SYSTEM (98/99):						
Purchase Volumes	29,600	13,875	31,000	47,389	30,031	151,895
Commodity Cost (Highest)	\$2.0150	\$2.2141	\$2.2975	\$2.0817	\$1.6775	
Total Commodity Costs	\$59,644	\$30,720	\$71,223	\$98,649	\$50,376	\$310,612
				Weighted Avg. Commodity Costs		\$2.0449
EASTERN SYSTEM (99/00):						
Purchase Volumes	30,936	2,014	7,728	63,683	24,719	129,080
Commodity Cost (Highest)	\$2.9475	\$2.5400	\$2.5647	\$2.5050	\$2.7032	
Total Commodity Costs	\$91,184	\$5,116	\$19,820	\$159,526	\$66,820	\$342,466
				Weighted Avg. Commodity Costs		\$2.6531
				Average of 3 Periods		\$2.3422
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$2.3353
November, 2000 Gas Commodity Cost						\$4.9858

**MISSOURI PUBLIC SERVICE
SCHEDULE 1 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE SOUTHERN SYSTEM**

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
REVERSE PRIOR YR'S CREDIT SYSTEM SUPPLY PPA 11/98-3/99	VARIOUS	NOV 98-MAR 99	OCTOBER 1999	0	0.0000	143,786.32	0.00	143,786.32	143,786.32	0.00	0	0.00	143,786.32
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	101,209	2.4545	248,416.85	0.00	248,416.85	248,416.85	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	4,116	2.7488	11,314.06	0.00	11,314.06	11,314.06	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	2,152	0.0000	7,050.22	0.00	7,050.22	7,050.22	0.00	0	0.00	
POOL GAS PPA 11/98	1-TNS-1198-07921	NOVEMBER 1998	OCTOBER 1999	(20)	0.0000	(13,053.55)	0.00	(13,053.55)	(13,053.55)	0.00	0	0.00	
POOL GAS PPA 12/98	1-TNS-1298-07921	DECEMBER 1998	OCTOBER 1999	9	0.0000	(24,343.74)	0.00	(24,343.74)	(24,343.74)	0.00	0	0.00	
POOL GAS PPA 1/99	1-TNS-0199-07921	JANUARY 1999	OCTOBER 1999	111	0.0000	(38,314.05)	0.00	(38,314.05)	(38,314.05)	0.00	0	0.00	
POOL GAS PPA 2/99	1-TNS-0299-07921	FEBRUARY 1999	OCTOBER 1999	90	0.0000	(38,437.68)	0.00	(38,437.68)	(38,437.68)	0.00	0	0.00	
POOL GAS PPA 3/99	1-TNS-0399-07921	MARCH 1999	OCTOBER 1999	92	0.0000	(27,650.50)	0.00	(27,650.50)	(27,650.50)	0.00	0	0.00	
POOL GAS PPA 4/99	1-TNS-0499-07921	APRIL 1999	OCTOBER 1999	0	0.0000	(6.54)	0.00	(6.54)	(6.54)	0.00	0	0.00	
POOL GAS PPA 5/99	1-TNS-0599-07921	MAY 1999	OCTOBER 1999	(5,883)	0.0000	(12,973.65)	0.00	(12,973.65)	(12,973.65)	0.00	0	0.00	
POOL GAS PPA 6/99	1-TNS-0699-07921	JUNE 1999	OCTOBER 1999	0	#DIV/0!	5.10	0.00	5.10	5.10	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	228,764.21	228,764.21	228,764.21	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS. PPA 5/99	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	(440.12)	(440.12)	(440.12)	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	103,481.47	
WNG CAPACITY RELEASE	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	(17,028.99)	(17,028.99)	(17,028.99)	0.00	0	0.00	424,783.09
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1999	NOVEMBER 1999	145,927	2.7599	402,747.36	0.00	402,747.36	402,747.36	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1999	NOVEMBER 1999	38,112	2.4224	92,320.66	0.00	92,320.66	92,320.66	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	OCTOBER 1999	NOVEMBER 1999	(614)	0.0000	(3,595.26)	0.00	(3,595.26)	(3,595.26)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	232,497.90	232,497.90	232,497.90	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	108,459.37	
WNG CAPACITY RELEASE	1-TNS-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	(9,159.61)	(9,159.61)	(9,159.61)	0.00	0	0.00	823,270.42
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1999	DECEMBER 1999	128,408	2.5717	330,222.58	0.00	330,222.58	330,222.58	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1999	DECEMBER 1999	83,781	2.8280	245,253.53	0.00	245,253.53	245,253.53	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	NOVEMBER 1999	DECEMBER 1999	354	0.0000	3,882.48	0.00	3,882.48	3,882.48	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	219,244.06	219,244.06	219,244.06	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	57,774	148,387.18	
WNG STORAGE TRANS.	1-STO-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	94,544.07	
WNG CAPACITY RELEASE	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	(18,339.34)	(18,339.34)	(18,339.34)	0.00	0	0.00	1,023,194.56
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	143,178	2.5717	368,208.67	0.00	368,208.67	368,208.67	0.00	0	0.00	
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	153,846	2.4339	374,446.67	0.00	374,446.67	374,446.67	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	121,092	2.0577	249,166.94	0.00	249,166.94	249,166.94	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	DECEMBER 1999	JANUARY 2000	1,392	0.0000	(2,347.36)	0.00	(2,347.36)	(2,347.36)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	234,590.84	234,590.84	234,590.84	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	189,960	485,686.64	
WNG STORAGE TRANS.	1-STO-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	94,544.07	
WNG CAPACITY RELEASE	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	(18,189.08)	(18,189.08)	(18,189.08)	0.00	0	0.00	1,786,407.39
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	135,751	2.5717	349,104.75	0.00	349,104.75	349,104.75	0.00	0	0.00	
SWING MKT POOL GAS SYSTEM SUPPL	VARIOUS	JANUARY 2000	FEBRUARY 2000	2,487	2.5000	6,217.50	0.00	6,217.50	6,217.50	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	541	2.1500	1,163.15	0.00	1,163.15	1,163.15	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JANUARY 2000	FEBRUARY 2000	341,514	2.2657	773,782.99	0.00	773,782.99	773,782.99	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	(225)	0.0000	884.17	0.00	884.17	884.17	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	256,731.80	256,731.80	256,731.80	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	248,389	640,720.66	
WNG CAPACITY RELEASE	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	(30,597.35)	(30,597.35)	(30,597.35)	0.00	0	0.00	2,091,799.01
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	127,598	2.5717	328,139.53	0.00	328,139.53	328,139.53	0.00	0	0.00	
SWING MKT POOL GAS SYSTEM SUPPL	VARIOUS	FEBRUARY 2000	MARCH 2000	2,657	2.5000	6,642.50	0.00	6,642.50	6,642.50	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	121,254	2.5641	310,908.90	0.00	310,908.90	310,908.90	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	FEBRUARY 2000	MARCH 2000	204,774	2.4779	507,418.10	0.00	507,418.10	507,418.10	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	4,113	0.0000	11,943.69	0.00	11,943.69	11,943.69	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	252,821.45	252,821.45	252,821.45	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	48,804	128,643.36	
WNG CAPACITY RELEASE	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	(15,445.22)	(15,445.22)	(15,445.22)	0.00	0	0.00	1,622,863.65

Enclosure 4

MISSOURI PUBLIC SERVICE
SCHEDULE 1 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE SOUTHERN SYSTEM

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
REVERSE PRIOR YR'S CREDIT SYSTEM SUPPLY PPA 11/98-3/99	VARIOUS	NOV 98-MAR 99	OCTOBER 1999	0	0.0000	143,786.32	0.00	143,786.32	143,786.32	0.00	0	0.00	143,786.32
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	101,209	2.4545	248,416.85	0.00	248,416.85	248,416.85	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	4,116	2.7488	11,314.06	0.00	11,314.06	11,314.06	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	2,152	0.0000	7,050.22	0.00	7,050.22	7,050.22	0.00	0	0.00	
POOL GAS PPA 11/98	1-TNS-1198-07921	NOVEMBER 1998	OCTOBER 1999	(20)	0.0000	(13,053.55)	0.00	(13,053.55)	(13,053.55)	0.00	0	0.00	
POOL GAS PPA 12/98	1-TNS-1298-07921	DECEMBER 1998	OCTOBER 1999	9	0.0000	(24,343.74)	0.00	(24,343.74)	(24,343.74)	0.00	0	0.00	
POOL GAS PPA 1/99	1-TNS-0199-07921	JANUARY 1999	OCTOBER 1999	111	0.0000	(38,314.05)	0.00	(38,314.05)	(38,314.05)	0.00	0	0.00	
POOL GAS PPA 2/99	1-TNS-0299-07921	FEBRUARY 1999	OCTOBER 1999	90	0.0000	(38,437.68)	0.00	(38,437.68)	(38,437.68)	0.00	0	0.00	
POOL GAS PPA 3/99	1-TNS-0399-07921	MARCH 1999	OCTOBER 1999	92	0.0000	(27,650.50)	0.00	(27,650.50)	(27,650.50)	0.00	0	0.00	
POOL GAS PPA 4/99	1-TNS-0499-07921	APRIL 1999	OCTOBER 1999	0	0.0000	(6.54)	0.00	(6.54)	(6.54)	0.00	0	0.00	
POOL GAS PPA 5/99	1-TNS-0599-07921	MAY 1999	OCTOBER 1999	(5,863)	0.0000	(12,973.65)	0.00	(12,973.65)	(12,973.65)	0.00	0	0.00	
POOL GAS PPA 6/99	1-TNS-0699-07921	JUNE 1999	OCTOBER 1999	0	#DIV/0!	5.10	0.00	5.10	5.10	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	226,764.21	226,764.21	226,764.21	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS. PPA 5/99	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	(440.12)	(440.12)	(440.12)	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	103,481.47	
WNG CAPACITY RELEASE	1-TNS-0999-07921	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	(17,028.99)	(17,028.99)	(17,028.99)	0.00	0	0.00	424,783.09
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1999	NOVEMBER 1999	145,927	2.7599	402,747.36	0.00	402,747.36	402,747.36	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1999	NOVEMBER 1999	38,112	2.4224	92,320.66	0.00	92,320.66	92,320.66	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	OCTOBER 1999	NOVEMBER 1999	(614)	0.0000	(3,595.26)	0.00	(3,595.26)	(3,595.26)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	232,497.90	232,497.90	232,497.90	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	108,459.37	
WNG CAPACITY RELEASE	1-TNS-1099-07921	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	(9,159.61)	(9,159.61)	(9,159.61)	0.00	0	0.00	823,270.42
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1999	DECEMBER 1999	126,408	2.5717	330,222.58	0.00	330,222.58	330,222.58	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1999	DECEMBER 1999	83,761	2.9280	245,253.53	0.00	245,253.53	245,253.53	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	NOVEMBER 1999	DECEMBER 1999	354	0.0000	3,882.48	0.00	3,882.48	3,882.48	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	219,244.06	219,244.06	219,244.06	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	57,774	146,387.18	
WNG STORAGE TRANS.	1-STO-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	94,544.07	
WNG CAPACITY RELEASE	1-TNS-1199-07921	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	(16,339.34)	(16,339.34)	(16,339.34)	0.00	0	0.00	1,023,194.56
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	143,179	2.5717	368,208.67	0.00	368,208.67	368,208.67	0.00	0	0.00	
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	153,846	2.4339	374,446.67	0.00	374,446.67	374,446.67	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1999	JANUARY 2000	121,092	2.0577	249,166.94	0.00	249,166.94	249,166.94	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	DECEMBER 1999	JANUARY 2000	1,392	0.0000	(2,347.36)	0.00	(2,347.36)	(2,347.36)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	234,590.84	234,590.84	234,590.84	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	189,960	485,986.84	
WNG STORAGE TRANS.	1-STO-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	94,544.07	
WNG CAPACITY RELEASE	1-TNS-1299-07921	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	(18,189.08)	(18,189.08)	(18,189.08)	0.00	0	0.00	1,786,407.39
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	135,751	2.5717	349,104.75	0.00	349,104.75	349,104.75	0.00	0	0.00	
SWING MRKT POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	2,487	2.5000	6,217.50	0.00	6,217.50	6,217.50	0.00	0	0.00	
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	541	2.1500	1,163.15	0.00	1,163.15	1,163.15	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 2000	FEBRUARY 2000	341,514	2.2657	773,782.99	0.00	773,782.99	773,782.99	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JANUARY 2000	FEBRUARY 2000	(225)	0.0000	884.17	0.00	884.17	884.17	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	256,731.80	256,731.80	256,731.80	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	248,389	640,720.68	
WNG STORAGE TRANS.	1-STO-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34	
WNG CAPACITY RELEASE	1-TNS-0100-07921	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	(30,597.35)	(30,597.35)	(30,597.35)	0.00	0	0.00	2,091,799.01
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	127,598	2.5717	328,139.53	0.00	328,139.53	328,139.53	0.00	0	0.00	
SWING MRKT POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	2,657	2.5000	6,642.50	0.00	6,642.50	6,642.50	0.00	0	0.00	
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	121,254	2.5641	310,908.90	0.00	310,908.90	310,908.90	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 2000	MARCH 2000	204,774	2.4779	507,418.10	0.00	507,418.10	507,418.10	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	FEBRUARY 2000	MARCH 2000	4,113	0.0000	11,943.69	0.00	11,943.69	11,943.69	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	252,821.45	252,821.45	252,821.45	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	48,604	126,643.36	
WNG STORAGE TRANS.	1-STO-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34	
WNG CAPACITY RELEASE	1-TNS-0200-07921	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	(15,445.22)	(15,445.22)	(15,445.22)	0.00	0	0.00	1,622,863.85

MISSOURI PUBLIC SERVICE
SCHEDULE 1 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE SOUTHERN SYSTEM

BY USAGE MONTH ON THE SOUTHERN SYSTEM															
SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH		
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 2000	APRIL 2000	138,617	2.5717	356,476.72	0.00	356,476.72	356,476.72	0.00	0	0.00			
SWING MKRT POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 2000	APRIL 2000	33,346	2.5599	85,362.49	0.00	85,362.49	85,362.49	0.00	0	0.00			
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 2000	APRIL 2000	3,457	2.7109	9,371.48	0.00	9,371.48	9,371.48	0.00	0	0.00			
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 2000	APRIL 2000	11,411	2.3965	27,346.95	0.00	27,346.95	27,346.95	0.00	0	0.00			
POOL GAS ADJ 01/00	VARIOUS	JANUARY 2000	APRIL 2000	(162)	2.5000	(405.00)	0.00	(405.00)	(405.00)	0.00	0	0.00			
CASHOUT ADJ 1/99 TO 2/00	VARIOUS	JAN 99 - FEB 00	APRIL 2000	15,282	2.4200	36,982.78	0.00	36,982.78	36,982.78	0.00	0	0.00			
IMBALANCE GAS	VARIOUS	MARCH 2000	APRIL 2000	210	0.0000	294.58	0.00	294.58	294.58	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-TNS-0300-07921	MARCH 2000	APRIL 2000	0	0.0000	0.00	243,761.66	243,761.66	243,761.66	0.00	0	0.00			
WNG ASSOC CO STORAGE	1-TNS-0300-07921	MARCH 2000	APRIL 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	189,661	497,101.67			
WNG STORAGE TRANS.	1-STO-0300-07921	MARCH 2000	APRIL 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.35			
WNG CAPACITY RELEASE	1-TNS-0300-07921	MARCH 1999	APRIL 2000	0	0.0000	0.00	(17,025.00)	(17,025.00)	(17,025.00)	0.00	0	0.00	1,333,059.68		
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	APRIL 2000	MAY 2000	176,842	2.7900	493,389.18	0.00	493,389.18	493,389.18	0.00	0	0.00			
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	APRIL 2000	MAY 2000	43,641	2.7702	120,894.13	0.00	120,894.13	120,894.13	0.00	0	0.00			
POOL GAS ADJ 01/00	VARIOUS	APRIL 2000	MAY 2000	(5,021)	2.5000	(12,552.50)	0.00	(12,552.50)	(12,552.50)	0.00	0	0.00			
IMBALANCE GAS	VARIOUS	APRIL 2000	MAY 2000	2,945	0.0000	11,869.67	0.00	11,869.67	11,869.67	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-TNS-0400-07921	APRIL 2000	MAY 2000	0	0.0000	0.00	267,546.90	267,546.90	267,546.90	0.00	0	0.00			
WNG ASSOC CO STORAGE	1-TNS-0400-07921	APRIL 2000	MAY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	18,904	49,960.29			
WNG STORAGE TRANS.	1-STO-0400-07921	APRIL 2000	MAY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34			
WNG CAPACITY RELEASE	1-TNS-0400-07921	APRIL 2000	MAY 2000	0	0.0000	0.00	(7,340.73)	(7,340.73)	(7,340.73)	0.00	0	0.00	1,017,558.28		
TERM POOL GAS SYS SUPPLY	VARIOUS	MAY 2000	JUNE 2000	101,708	2.9567	300,716.66	0.00	300,716.66	300,716.66	0.00	0	0.00			
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	MAY 2000	JUNE 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00			
IMBALANCE GAS	VARIOUS	MAY 2000	JUNE 2000	(459)	(1.7531)	804.69	0.00	804.69	804.69	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-TNS-0500-07921	MAY 2000	JUNE 2000	0	0.0000	0.00	243,035.71	243,035.71	243,035.71	0.00	0	0.00			
WNG STORAGE TRANS.	1-STO-0500-07921	MAY 2000	JUNE 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34			
WNG CAPACITY RELEASE	1-TNS-0500-07921	MAY 2000	JUNE 2000	0	0.0000	0.00	(8,808.73)	(8,808.73)	(8,808.73)	0.00	0	0.00	629,539.67		
TERM POOL GAS SYS SUPPLY	VARIOUS	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00			
BASELOAD POOL GAS SYS SUPPLY	VARIOUS	JUNE 2000	JULY 2000	82,348	4.1302	340,110.54	0.00	340,110.54	340,110.54	0.00	0	0.00			
SWING POOL GAS SYS SUPPLY	VARIOUS	JUNE 2000	JULY 2000		0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00			
IMBALANCE GAS	VARIOUS	JUNE 2000	JULY 2000	(1,661)	(6.2721)	10,417.91	0.00	10,417.91	10,417.91	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-TNS-0600-07921	JUNE 2000	JULY 2000	0	0.0000	0.00	236,522.35	236,522.35	236,522.35	0.00	0	0.00			
WNG STORAGE TRANS.	1-STO-0600-07921	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34			
WNG CAPACITY RELEASE	1-TNS-0600-07921	JUNE 2000	JULY 2000	0	0.0000	0.00	(8,635.36)	(8,635.36)	(8,635.36)	0.00	0	0.00	672,206.78		
TERM POOL GAS SYS SUPPLY	VARIOUS	JULY 2000	AUGUST 2000	71,958	4.2167	303,422.90	0.00	303,422.90	303,422.90	0.00	0	0.00			
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JULY 2000	AUGUST 2000	0	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0	0.00			
IMBALANCE GAS	VARIOUS	JULY 2000	AUGUST 2000	(1,818)	4.1327	(7,513.19)	0.00	(7,513.19)	(7,513.19)	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-TNS-0700-07921	JULY 2000	AUGUST 2000	0	0.0000	0.00	241,339.28	241,339.28	241,339.28	0.00	0	0.00			
WNG STORAGE TRANS.	1-STO-0700-07921	JULY 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34			
WNG CAPACITY RELEASE	1-TNS-0700-07921	JULY 2000	AUGUST 2000	0	0.0000	0.00	(10,346.76)	(10,346.76)	(10,346.76)	0.00	0	0.00	620,693.57		
TERM POOL GAS SYS SUPPLY	VARIOUS	AUGUST 2000	SEPTEMBER 2000	80,099	3.7338	299,073.91	0.00	299,073.91	299,073.91	0.00	0	0.00			
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	AUGUST 2000	SEPTEMBER 2000	0	#DIV/0!	0.00	0.00	0.00	0.00	0.00	0	0.00			
IMBALANCE GAS	1-TNS-0800-07921	AUGUST 2000	SEPTEMBER 2000	16,235	0.0000	54,591.42	0.00	54,591.42	54,591.42	0.00	0	0.00			
WNG SYSTEM SUPPLY TRANS.	1-STO-0800-07921	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	238,564.54	238,564.54	238,564.54	0.00	0	0.00			
WNG STORAGE TRANS.	1-TNS-0800-07921	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	93,791.34			
WNG CAPACITY RELEASE	1-TNS-0800-07921	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	(14,627.23)	(14,627.23)	(14,627.23)	0.00	0	0.00	671,393.98		
				2,626,795				7,042,959.71	2,719,437.18	9,762,396.89	9,762,396.89	-	753,292	3,098,159.51	12,860,556.40

**MISSOURI PUBLIC SERVICE
SCHEDULE 2 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE NORTHERN SYSTEM**

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
AQUILA	39758 199	SEPTEMBER 1999	OCTOBER 1999	25,336	2.7700	70,180.72	0.00	70,180.72	70,180.72	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	3,332	0.0000	14,484.50	0.00	14,484.50	14,484.50	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	108,399.52	108,399.52	108,399.52	0.00	0	0.00	
PEPL ASSOC CO STORAGE-LOS	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	991	2,205.32	
PEPL STORAGE TRANS.	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	(175.63)	(175.63)	(175.63)	0.00	0	0.00	243,885.43
WESTERN	134386	OCTOBER 1999	NOVEMBER 1999	48,258	2.4300	117,266.94	0.00	117,266.94	117,266.94	0.00	0	0.00	
AQUILA	40006 J99	OCTOBER 1999	NOVEMBER 1999	1,028	2.4300	2,498.04	0.00	2,498.04	2,498.04	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	OCTOBER 1999	NOVEMBER 1999	8,618	0.0000	12,937.12	0.00	12,937.12	12,937.12	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	113,923.02	0.00	113,923.02	113,923.02	0.00	0	0.00	
PEPL STORAGE TRANS.	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	(270.25)	(270.25)	(270.25)	0.00	0	0.00	295,145.87
CORAL	CER-1-199911-0461	NOVEMBER 1999	DECEMBER 1999	708	2.9450	2,085.06	0.00	2,085.06	2,085.06	0.00	0	0.00	
TENASKA	199911-0252	NOVEMBER 1999	DECEMBER 1999	25,423	2.9475	74,934.29	0.00	74,934.29	74,934.29	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	NOVEMBER 1999	DECEMBER 1999	(2,535)	0.0000	8,949.21	0.00	8,949.21	8,949.21	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	139,885.43	139,885.43	139,885.43	0.00	0	0.00	
PEPL ASSOC CO STORAGE-LOS	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	38,239	85,076.87	
PEPL ASSOC CO STORAGE-LOS PPA 10/9	991000216	OCTOBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	7,085	15,766.68	
PEPL ASSOC CO STORAGE-WS	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	36,826	82,728.88	
PEPL STORAGE TRANS.	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	(3,891.40)	(3,891.40)	(3,891.40)	0.00	0	0.00	454,326.02
WESTERN GAS RESOURCES	135244	DECEMBER 1999	JANUARY 2000	3,974	2.0600	8,186.44	0.00	8,186.44	8,186.44	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	DECEMBER 1999	JANUARY 2000	(3,871)	0.0000	(34,045.14)	0.00	(34,045.14)	(34,045.14)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	144,279.87	144,279.87	144,279.87	0.00	0	0.00	
PEPL ASSOC CO STORAGE-LOS	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	63,659	141,743.94	
PEPL ASSOC CO STORAGE-LOS PPA 11/9	991100221	NOVEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	7.66	
PEPL ASSOC CO STORAGE-WS	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	153,721	345,435.04	
PEPL STORAGE TRANS.	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	(2,418.53)	(2,418.53)	(2,418.53)	0.00	0	0.00	651,980.28
WESTERN	135808	JANUARY 2000	FEBRUARY 2000	20,848	2.3804	49,626.98	0.00	49,626.98	49,626.98	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JANUARY 2000	FEBRUARY 2000	(10,598)	0.0000	(18,800.48)	0.00	(18,800.48)	(18,800.48)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	145,043.40	145,043.40	145,043.40	0.00	0	0.00	
PEPL ASSOC CO STORAGE-LOS	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	58,138	130,336.04	
PEPL ASSOC CO STORAGE-WS	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	184,202	385,416.09	
PEPL STORAGE TRANS.	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	(2,639.32)	(2,639.32)	(2,639.32)	0.00	0	0.00	737,773.71
TEXACO	200002 1739	FEBRUARY 2000	MARCH 2000	59,887	2.5050	150,016.94	0.00	150,016.94	150,016.94	0.00	0	0.00	
WESTERN	136220	FEBRUARY 2000	MARCH 2000	8,119	2.5000	20,297.50	0.00	20,297.50	20,297.50	0.00	0	0.00	
WESTERN PPA 1/00	135808	JANUARY 2000	MARCH 2000	0	0.0000	(28.00)	0.00	(28.00)	(28.00)	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	FEBRUARY 2000	MARCH 2000	461	0.0000	4,790.18	0.00	4,790.18	4,790.18	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	138,194.04	138,194.04	138,194.04	0.00	0	0.00	
PEPL ASSOC CO STORAGE-WS	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	110,865	264,494.14	
PEPL STORAGE TRANS.	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	(4,892.45)	(4,892.45)	(4,892.45)	0.00	0	0.00	621,663.35
TEXACO	200003 1968	MARCH 2000	APRIL 2000	10,490	2.6216	27,500.40	0.00	27,500.40	27,500.40	0.00	0	0.00	
WESTERN	136584	MARCH 2000	APRIL 2000	1,396	2.5050	3,496.98	0.00	3,496.98	3,496.98	0.00	0	0.00	
AQUILA	41337 COO	MARCH 2000	APRIL 2000	10,290	0.0000	27,661.54	0.00	27,661.54	27,661.54	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MARCH 2000	APRIL 2000	23,150	0.0000	57,099.64	0.00	57,099.64	57,099.64	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000300211	MARCH 2000	APRIL 2000	0	0.0000	0.00	143,803.03	143,803.03	143,803.03	0.00	0	0.00	
PEPL ASSOC CO STORAGE-WS	000300211	MARCH 2000	APRIL 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	85,040	203,134.33	
PEPL STORAGE TRANS.	000300211	MARCH 2000	APRIL 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	000300211	MARCH 2000	APRIL 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	
PEPL CAPACITY RELEASE	000300211	MARCH 2000	APRIL 2000	0	0.0000	0.00	(3,704.27)	(3,704.27)	(3,704.27)	0.00	0	0.00	507,782.65

MISSOURI PUBLIC SERVICE
SCHEDULE 2 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE NORTHERN SYSTEM

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
TEXACO	200004 2404	APRIL 2000	MAY 2000	32,684	2.7925	91,270.07	0.00	91,270.07	91,270.07	0.00	0	0.00	
WESTERN	137070	APRIL 2000	MAY 2000	2,800	2.7900	7,812.00	0.00	7,812.00	7,812.00	0.00	0	0.00	
AQUILA	416050D00	APRIL 2000	MAY 2000	58,925	0.0000	158,820.75	0.00	158,820.75	158,820.75	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	APRIL 2000	MAY 2000	(13,355)	0.0000	(25,242.37)	0.00	(25,242.37)	(25,242.37)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	111,380.56	111,380.56	111,380.56	0.00	0	0.00	
PEPL ASSOC CO STORAGE-WS	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	3,003	7,805.72	
PEPL STORAGE TRANS.	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	55,998.47	
PEPL IN/OUT STORAGE	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL CAPACITY RELEASE	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	(3,651.93)	(3,651.93)	(3,651.93)	0.00	0	0.00	404,193.27
WESTERN GAS RESOURCES	137421	MAY 2000	JUNE 2000	39,150	2.9400	115,101.00	0.00	115,101.00	115,101.00	0.00	0	0.00	
TEXACO - PPA 04/00	200004 2404	APRIL 2000	JUNE 2000	(224)	2.7925	(625.52)	0.00	(625.52)	(625.52)	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MAY 2000	JUNE 2000	(9,211)	2.5262	(23,268.39)	0.00	(23,268.39)	(23,268.39)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	115,292.70	115,292.70	115,292.70	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS. PPA - 04/00	000400209	APRIL 2000	JUNE 2000	0	0.0000	0.00	(6.02)	(6.02)	(6.02)				
PEPL SYSTEM SUPPLY TRANS. PPA - 0300	000300211	MARCH 2000	JUNE 2000	0	0.0000	0.00	354.60	354.60	354.60				
PEPL STORAGE TRANS.	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	56,431.44	
PEPL IN/OUT STORAGE	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL CAPACITY RELEASE PPA - 04/00	000400209	APRIL 2000	JUNE 2000	0	0.0000	0.00	(17.89)	(17.89)	(17.89)				
PEPL CAPACITY RELEASE	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	(3,219.17)	(3,219.17)	(3,219.17)	0.00	0	0.00	260,042.75
E-PRIME	200007-1-00216	JUNE 2000	JULY 2000	24,570	4.2075	103,378.28	0.00	103,378.28	103,378.28	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JUNE 2000	JULY 2000	660	35.3868	23,355.14	0.00	23,355.14	23,355.14	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	115,592.83	115,592.83	115,592.83	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS. PPA - 05/00	000500209	MAY 2000	JULY 2000	0	0.0000	0.00	33.83	33.83	33.83	0.00	0	0.00	
PEPL ASSOC CO STORAGE-IOS	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL STORAGE TRANS.	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	59,998.47	
PEPL STORAGE TRANS. PPA - 05/00	000500209	MAY 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	(432.97)	
PEPL IN/OUT STORAGE	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL CAPACITY RELEASE	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	(1,871.94)	(1,871.94)	(1,871.94)	0.00	0	0.00	300,053.64
ENRON	13433SA	JULY 2000	AUGUST 2000	23,035	4.2000	96,747.00	0.00	96,747.00	96,747.00	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JULY 2000	AUGUST 2000	(1,925)	4.2876	(8,253.62)	0.00	(8,253.62)	(8,253.62)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	113,421.58	113,421.58	113,421.58	0.00	0	0.00	
PEPL ASSOC CO STORAGE-IOS	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL STORAGE TRANS.	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	55,998.47	
PEPL STORAGE TRANS. PPA - 08/00	000600209	JUNE 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	(4,000.00)	
PEPL IN/OUT STORAGE	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL CAPACITY RELEASE	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	(1,529.32)	(1,529.32)	(1,529.32)	0.00	0	0.00	34.11
AQUILA	42573 h00	AUGUST 2000	SEPTEMBER 2000	23,026	3.7000	85,196.20	0.00	85,196.20	85,196.20	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	AUGUST 2000	SEPTEMBER 2000	3,174	1.3470	4,275.30	0.00	4,275.30	4,275.30	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	113,494.94	113,494.94	113,494.94	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS. PPA - 04/00	000400209	APRIL 2000	SEPTEMBER 2001	0	0.0000	0.00	(15.77)	(15.77)	(15.77)	0.00	0	0.00	
PEPL STORAGE TRANS.	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	55,998.47	
PEPL IN/OUT STORAGE	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
PEPL CAPACITY RELEASE	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	258,949.14
				415,623		1,341,627.72	1,360,872.44	2,702,500.16	2,702,500.16	0.00	741,769	2,285,680.06	4,988,180.22

MISSOURI PUBLIC SERVICE
SCHEDULE 3 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE EASTERN SYSTEM

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
IMBALANCE GAS	VARIOUS	SEPTEMBER 1999	OCTOBER 1999	7,738	0.0000	18,552.68	0.00	18,552.68	18,552.68	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT0999	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	47,233.12	47,233.12	47,233.12	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT10999	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	13,848.23	13,848.23	13,848.23	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens0999	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	12,049.36	12,049.36	12,049.36	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens0999	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	780.85	780.85	780.85	0.00	0	0.00	
PEPL CAPACITY RELEASE	990900202	SEPTEMBER 1999	OCTOBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	92,464.24
AQUILA	18991	OCTOBER 1999	NOVEMBER 1999	11,213	2.4300	27,247.59	0.00	27,247.59	27,247.59	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	OCTOBER 1999	NOVEMBER 1999	5,417	0.0000	14,300.61	0.00	14,300.61	14,300.61	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	4,139.63	4,139.63	4,139.63	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1099	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	48,587.16	48,587.16	48,587.16	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11099	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	14,889.56	14,889.56	14,889.56	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens1099	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	12,120.80	12,120.80	12,120.80	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1099	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	825.50	825.50	825.50	0.00	0	0.00	
PEPL CAPACITY RELEASE	991000216	OCTOBER 1999	NOVEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	12,000.00
TENASKA	199911-0252	NOVEMBER 1999	DECEMBER 1999	30,936	2.9475	91,183.86	0.00	91,183.86	91,183.86	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	NOVEMBER 1999	DECEMBER 1999	(11,768)	0.0000	(33,541.20)	0.00	(33,541.20)	(33,541.20)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	50,887.59	50,887.59	50,887.59	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1199	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	53,987.15	53,987.15	53,987.15	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11199	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	16,040.95	16,040.95	16,040.95	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens1199	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	15,411.60	15,411.60	15,411.60	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1199	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	1,082.25	1,082.25	1,082.25	0.00	0	0.00	
PEPL CAPACITY RELEASE	991100221	NOVEMBER 1999	DECEMBER 1999	0	0.0000	0.00	(280.50)	(280.50)	(280.50)	0.00	0	0.00	194,771.70
WESTERN GAS RESOURCES	135244	DECEMBER 1999	JANUARY 2000	25,892	2.3298	60,322.27	0.00	60,322.27	60,322.27	0.00	0	0.00	
OGE	GAS-199912-00481	DECEMBER 1999	JANUARY 2000	2,014	2.5400	5,115.56	0.00	5,115.56	5,115.56	0.00	0	0.00	
AQUILA	40566 L99	DECEMBER 1999	JANUARY 2000	22,636	2.2322	50,528.83	0.00	50,528.83	50,528.83	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	DECEMBER 1999	JANUARY 2000	18,258	0.0000	46,143.96	0.00	46,143.96	46,143.96	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	51,659.90	51,659.90	51,659.90	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1299	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	61,512.60	61,512.60	61,512.60	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11299	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	20,432.79	20,432.79	20,432.79	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens1299	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	15,692.16	15,692.16	15,692.16	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1299	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	1,257.60	1,257.60	1,257.60	0.00	0	0.00	
PEPL CAPACITY RELEASE	991200214	DECEMBER 1999	JANUARY 2000	0	0.0000	0.00	(300.70)	(300.70)	(300.70)	0.00	0	0.00	312,364.97
WESTERN	135808	JANUARY 2000	FEBRUARY 2000	7,728	2.5647	19,819.83	0.00	19,819.83	19,819.83	0.00	0	0.00	
CORAL	CER-1-200001-0488	JANUARY 2000	FEBRUARY 2000	61,857	2.2625	139,951.46	0.00	139,951.46	139,951.46	0.00	0	0.00	
AQUILA PPA 12/99	40566 L99 R1	DECEMBER 1999	FEBRUARY 2000	0	#DIV/0!	51.30	0.00	51.30	51.30	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JANUARY 2000	FEBRUARY 2000	5,854	0.0000	14,942.44	0.00	14,942.44	14,942.44	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	52,275.78	52,275.78	52,275.78	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT01,2000	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	64,456.27	64,456.27	64,456.27	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT101,2000	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	22,758.68	22,758.68	22,758.68	0.00	0	0.00	
MOPIPE SYS SUPPLY TRANS. PPA 12/99	NUT101,2000	DECEMBER 1999	FEBRUARY 2000	0	0.0000	0.00	625.00	625.00	625.00	0.00	0	0.00	
MOPIPE SYS SUPPLY TRANS. PPA 11/99	NUT101,2000	NOVEMBER 1999	FEBRUARY 2000	0	0.0000	0.00	625.00	625.00	625.00	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens01,2000	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	15,775.68	15,775.68	15,775.68	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens01,2000	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	1,309.80	1,309.80	1,309.80	0.00	0	0.00	
PEPL CAPACITY RELEASE PPA 12/99	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	(53.67)	(53.67)	(53.67)	0.00	0	0.00	
PEPL CAPACITY RELEASE	000100213	JANUARY 2000	FEBRUARY 2000	0	0.0000	0.00	(301.32)	(301.32)	(301.32)	0.00	0	0.00	332,236.25
TEXACO	200002 1739	FEBRUARY 2000	MARCH 2000	63,683	2.5050	159,525.92	0.00	159,525.92	159,525.92	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	FEBRUARY 2000	MARCH 2000	(11,750)	0.0000	(25,915.16)	0.00	(25,915.16)	(25,915.16)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	52,048.53	52,048.53	52,048.53	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT02,2000	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	59,351.61	59,351.61	59,351.61	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT102,2000	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	19,807.31	19,807.31	19,807.31	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens02,2000	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	15,592.48	15,592.48	15,592.48	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens02,2000	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	1,195.30	1,195.30	1,195.30	0.00	0	0.00	
PEPL CAPACITY RELEASE	000200210	FEBRUARY 2000	MARCH 2000	0	0.0000	0.00	(506.05)	(506.05)	(506.05)	0.00	0	0.00	281,099.94

MISSOURI PUBLIC SERVICE
SCHEDULE 3 - SPOT MARKET GAS PURCHASES
BY USAGE MONTH FOR THE EASTERN SYSTEM

SUPPLIER	INVOICE NO.	USAGE MONTH	MONTH BOOKED	MMBTU	RATE	COST	OTHER CHARGES	TOTAL SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
WESTERN	136584	MARCH 2000	APRIL 2000	1,104	2.5050	2,765.52	0.00	2,765.52	2,765.52	0.00	0	0.00	
TEXACO	200003 1968	MARCH 2000	APRIL 2000	18,354	2.6850	49,281.28	0.00	49,281.28	49,281.28	0.00	0	0.00	
AQUILA	41337 COO	MARCH 2000	APRIL 2000	24,719	2.7032	66,820.81	0.00	66,820.81	66,820.81	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MARCH 2000	APRIL 2000	(5,666)	2.4894	(14,105.00)	0.00	(14,105.00)	(14,105.00)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000300211	MARCH 1999	APRIL 2000	0	0.0000	0.00	51,298.39	51,298.39	51,298.39	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT03,2000	MARCH 1999	APRIL 2000	0	0.0000	0.00	56,566.75	56,566.75	56,566.75	0.00	0	0.00	
MOGAS OWENSVILLE	NGowens03,2000	MARCH 2000	APRIL 2000	0	0.0000	0.00	15,485.84	15,485.84	15,485.84	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT103,2000	MARCH 1999	APRIL 2000	0	0.0000	0.00	19,335.74	19,335.74	19,335.74	0.00	0	0.00	
PEPL CAPACITY RELEASE	000300211	MARCH 1999	APRIL 2000	0	0.0000	0.00	(1,768.55)	(1,768.55)	(1,768.55)	0.00	0	0.00	245,680.78
AQUILA	41605 D00	APRIL 2000	MAY 2000	22,745	2.7900	63,458.55	0.00	63,458.55	63,458.55	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	APRIL 2000	MAY 2000	(999)	3.7209	(3,717.21)	0.00	(3,717.21)	(3,717.21)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	10,574.72	10,574.72	10,574.72	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT04,2000	APRIL 2000	MAY 2000	0	0.0000	0.00	53,019.84	53,019.84	53,019.84	0.00	0	0.00	
MOGAS OWENSVILLE	NGowens04,2000	APRIL 2000	MAY 2000	0	0.0000	0.00	15,369.68	15,369.68	15,369.68	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT104,2000	APRIL 2000	MAY 2000	0	0.0000	0.00	14,026.58	14,026.58	14,026.58	0.00	0	0.00	
MOPIPE OWENSVILLE	NUT104,2000	APRIL 2000	MAY 2000	0	0.0000	0.00	2,121.10	2,121.10	2,121.10	0.00	0	0.00	
MOPIPE SALEM	NUT104,2000	APRIL 2000	MAY 2000	0	0.0000	0.00	1,056.05	1,056.05	1,056.05	0.00	0	0.00	
PEPL CAPACITY RELEASE	000400209	APRIL 2000	MAY 2000	0	0.0000	0.00	(1,867.88)	(1,867.88)	(1,867.88)	0.00	0	0.00	154,041.43
WESTERN GAS RESOURCES	137421	MAY 2000	JUNE 2000	11,885	2.9400	34,941.90	0.00	34,941.90	34,941.90	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MAY 2000	JUNE 2000	(3,400)	3.1164	(10,595.85)	0.00	(10,595.85)	(10,595.85)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	4,417.19	4,417.19	4,417.19	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT05,2000	MAY 2000	JUNE 2000	0	0.0000	0.00	50,325.54	50,325.54	50,325.54	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS. - PPA	NGUT05,2000	MARCH 2000	JUNE 2000	0	0.0000	0.00	(137.00)	(137.00)	(137.00)	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT105,2000	MAY 2000	JUNE 2000	0	0.0000	0.00	14,626.62	14,626.62	14,626.62	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS. - PPA	NUT105,2000	MARCH 2000	JUNE 2000	0	0.0000	0.00	(93.10)	(93.10)	(93.10)	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens05,2000	MAY 2000	JUNE 2000	0	0.0000	0.00	15,270.56	15,270.56	15,270.56	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS. - PPA	NGowens05,2000	MARCH 2000	JUNE 2000	0	0.0000	0.00	(1.92)	(1.92)	(1.92)	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens0,2000	MAY 2000	JUNE 2000	0	0.0000	0.00	994.10	994.10	994.10	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS. - PPA	NOwens0,2000	MARCH 2000	JUNE 2000	0	0.0000	0.00	(1.20)	(1.20)	(1.20)	0.00	0	0.00	
PEPL CAPACITY RELEASE	000500209	MAY 2000	JUNE 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	109,746.84
IMBALANCE GAS	VARIOUS	JUNE 2000	JULY 2000	7,147	2.8952	20,692.14	0.00	20,692.14	20,692.14	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT06,2000	JUNE 2000	JULY 2000	0	0.0000	0.00	49,972.58	49,972.58	49,972.58	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT106,2000	JUNE 2000	JULY 2000	0	0.0000	0.00	14,418.39	14,418.39	14,418.39	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens06,2000	JUNE 2000	JULY 2000	0	0.0000	0.00	15,261.04	15,261.04	15,261.04	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens06,2000	JUNE 2000	JULY 2000	0	0.0000	0.00	988.15	988.15	988.15	0.00	0	0.00	
PEPL CAPACITY RELEASE	000600209	JUNE 2000	JULY 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	101,332.30
ENRON	13433SA	JULY 2000	AUGUST 2000	5,330	4.2000	22,386.00	0.00	22,386.00	22,386.00	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JULY 2000	AUGUST 2000	2,932	4.2009	12,316.92	0.00	12,316.92	12,316.92	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	2,576.67	2,576.67	2,576.67	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT07,2000	JULY 2000	AUGUST 2000	0	0.0000	0.00	50,240.53	50,240.53	50,240.53	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT107,2000	JULY 2000	AUGUST 2000	0	0.0000	0.00	14,621.88	14,621.88	14,621.88	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens07,2000	JULY 2000	AUGUST 2000	0	0.0000	0.00	15,253.84	15,253.84	15,253.84	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	Nowens07,2000	JULY 2000	AUGUST 2000	0	0.0000	0.00	983.65	983.65	983.65	0.00	0	0.00	
PEPL CAPACITY RELEASE	000700208	JULY 2000	AUGUST 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	118,379.49
TEXACO	2000082370	AUGUST 2000	SEPTEMBER 2000	3,901	3.7075	14,462.96	0.00	14,462.96	14,462.96	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	AUGUST 2000	SEPTEMBER 2000	2,519	3.1680	7,980.30	0.00	7,980.30	7,980.30	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	2,658.97	2,658.97	2,658.97	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS. - PPA 07/00	000700208	JULY 2000	SEPTEMBER 2000	0	0.0000	0.00	2.00	2.00	2.00	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT08,2000	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	49,802.66	49,802.66	49,802.66	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT108,2000	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	14,331.37	14,331.37	14,331.37	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGowens08,2000	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	15,249.04	15,249.04	15,249.04	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens08,2000	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	980.65	980.65	980.65	0.00	0	0.00	
PEPL CAPACITY RELEASE	000800196	AUGUST 2000	SEPTEMBER 2000	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	105,467.95
				330,279		854,918.27	1,314,778.47	2,169,696.74	2,169,696.74	0.00	0.00	0.00	2,169,696.74

**MISSOURI PUBLIC SERVICE
SCHEDULE 4 - CALCULATION OF
NEW RECOVERY BALANCE
1999-2000 ACA YEAR**

Line		SOUTHERN SYSTEM		NORTHERN SYSTEM		EASTERN SYSTEM		TOTAL	Line
		FIRM	INTERRUPT.	FIRM	INTERRUPT.	FIRM	INTERRUPT.		
1	ACA RECOVERY	(278,155.87)	0.00	52,859.15	0.00	332,399.91	0.00	107,103.19	1
2	REGULAR RECOVERY	11,919,794.80	0.00	4,365,548.24	0.00	1,642,726.80	0.00	17,928,069.84	2
3	TOTAL RECOVERY	11,641,638.93	0.00	4,418,407.39	0.00	1,975,126.71	0.00	18,035,173.03	3
LESS:									
4	PURCHASED GAS COST PER BOOKS	9,762,396.89	0.00	2,702,500.16	0.00	2,169,696.74	0.00	14,634,593.79	4
5	STORAGE COSTS	3,098,159.51	0.00	2,285,680.06	0.00	0.00	0.00	5,383,839.57	5
6	TOTAL PURCHASED GAS COST PER BOOKS	12,860,556.40	0.00	4,988,180.22	0.00	2,169,696.74	0.00	20,018,433.36	6
7	GROSS RECOVERY	(1,218,917.47)	0.00	(569,772.83)	0.00	(194,570.03)	0.00	(1,983,260.33)	7
8	DCCB INTEREST REFUNDED (COLLECTED) 1999-2000 ACA YEAR	(959.00)	0.00	(1,009.00)	0.00	(15,232.00)	0.00	(17,200.00)	8
9	PRIOR PERIOD ADJ DCCB INTEREST 1998-1999 ACA YEAR	0.00	0.00	0.00	0.00	681.00	0.00	681.00	9
TOP/TC COSTS TRANSFER - PERMANENT CESSATION									
10	AUGUST 2000 BALANCE	4,044.75	0.00	0.00	0.00	0.00	0.00	4,044.75	10
11	1998-1999 ACA YEAR TRANSPORTATION COST ADJUSTMENT	0.00	0.00	13,501.09	0.00	0.00	0.00	13,501.09	11
12	REV. RECOVERY OVER/(UNDER) COST	(1,215,831.72)	0.00	(557,280.74)	0.00	(209,121.03)	0.00	(1,982,233.49)	12
13	BEGINNING ACA RECOVERY BALANCE SEPTEMBER 1999	216,359.01	9,563.19	(138,684.16)	(104,100.46)	(663,577.95)	0.00	(680,440.37)	13
14	ACA RECOVERY BALANCE AUGUST 2000 PER BOOKS	(1,138,105.18)	9,563.19	(707,313.93)	(104,100.46)	(861,947.74)	0.00	(2,801,904.12)	14
15	LESS ACTUAL ACA RECOVERY 9/00 BOOKED 8/00	(5,153.85)	0.00	(2,143.15)	0.00	(7,985.72)	0.00	(15,282.72)	15
16	REVERSE OUT CORRECTIONS MADE 10/99	143,786.32	0.00	0.00	0.00	0.00	0.00	143,786.32	16
17	ADJUSTMENTS TO BE MADE 10/00	0.00	0.00	13,492.18	0.00	(2,765.52)	0.00	10,726.66	17
18	ENDING ACA RECOVERY BALANCE PER BOOKS	(999,472.71)	9,563.19	(695,964.90)	(104,100.46)	(872,698.98)	0.00	(2,662,673.86)	18
19	GR-93-172 MCF SALES	3,823,123	123,143	1,468,777	0	379,066	0	5,794,109	19
20	CALCULATED ACA RATES FOR 11/00 PER CCF	0.02614	(0.00777)	0.04738	0.00000	0.07674	0.00000		20
21	EFFECTIVE 11/21/00	(0.04165)	(0.00777)	(0.05138)	0.00000	0.05975	0.00000		21
22	CHANGE IN ACA RATE	0.06779	0.00000	0.09876	0.00000	0.01699	0.00000		22

**MISSOURI PUBLIC SERVICE
EASTERN SYSTEM
PROPOSED THREE YEAR RECOVERY**

ACA Balance @8/99	\$ 526,969.90
99-00 Recovery	\$ 332,399.91
Previous year carryover	\$ 194,569.99
99-00 underrecovery	\$ 678,128.99
Total Underrecovery @ 8-00	\$ 872,698.98
33.3% 3 yr installments	\$ 290,899.66
Volumes	379,065.59
Recovery/ccf	\$ 0.07674

**MPS EASTERN SYSTEM
BUDGETED VOLUMES**

	<u>830</u>	<u>831</u>	<u>Total</u>
Nov-00	20,148.7	9,148.7	29,297.4
Dec-00	36,696.9	15,423.7	52,120.6
January-01	51,699.7	21,516.2	73,215.9
February-01	46,194.4	19,229.8	65,424.2
March-01	37,407.8	15,834.1	53,242.0
April-01	25,841.6	11,402.1	37,243.7
May-01	13,911.5	6,902.1	20,813.7
June-01	6,251.9	3,956.9	10,208.8
July-01	4,251.9	3,185.6	7,437.5
August-01	4,107.0	3,134.6	7,241.6
September-01	4,685.8	3,362.6	8,048.3
October-01	9,495.9	5,276.1	14,772.0
Total	260,693.2	118,372.4	379,065.6

MISSOURI PUBLIC SERVICE
Southern System Gas Refund

	FIRM	INTERRUPTIBLE	TRANSPORTATION	TOTAL
Prior Years Balance	\$3,818,668.17	\$154,846.17	\$0.00	\$3,973,514.34
Refund Check Received From WNG 9/00	\$1,240.51	\$0.00	\$0.00	1,240.51
6% Interest (09/12/00 - 11/01/00)	\$10.40	\$0.00	\$0.00	10.40
6% Interest (11/02/00 - 05/01/01) (Adjusted)	\$36.91	\$0.00	\$0.00	36.91
Actual Gas Refunds:				
Prior Years Balance	\$3,258,596.98	\$154,846.17	\$0.00	3,413,443.15
September 1999	\$0.00	\$0.00	\$0.00	0.00
October 1999	\$0.00	\$0.00	\$0.00	0.00
November 1999	\$0.00	\$0.00	\$0.00	0.00
December 1999	\$0.00	\$0.00	\$0.00	0.00
January 2000	\$0.00	\$0.00	\$0.00	0.00
February 2000	\$0.00	\$0.00	\$0.00	0.00
March 2000	\$66,352.99	\$0.00	\$0.00	66,352.99
April 2000	\$48,867.96	\$0.00	\$0.00	48,867.96
May 2000	\$71,293.81	\$0.00	\$0.00	71,293.81
June 2000	\$55,637.96	\$0.00	\$0.00	55,637.96
July 2000	\$48,474.93	\$0.00	\$0.00	48,474.93
August 2000	\$42,038.58	\$0.00	\$0.00	42,038.58
Actual Refunds Through August 2000	\$3,591,263.21	\$154,846.17	\$0.00	\$3,746,109.38
Balance as of August 31, 2000	<u>\$228,692.78</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$228,692.78</u>
GR-93-Mcfs				
Firm	3,823,123			3,823,123
Interruptible	-			
Transport	-			
	<u>3,823,123</u>			
			Refund Rate Per Ccf	<u>\$0.00598</u>

MPS proposes to change the refund rate from the present rate of \$0.5634/Mcf to \$0.0598/Mcf.

WILLIAMS GAS PIPELINES CENTRAL, INC.
REFUND ALLOCATION
Sep-00

Docket No. RP00-302 Cashout Refund

Journal Entry

Debit GSS Refund Account				\$ 2,560.70	
Credit 229.001	5198	100	MPD		\$(1,240.51)
Credit 229.001	5191	100	PND-KS		\$(1,097.12)
Reduce current month gas costs:					
Credit 232.030			Greenwood	\$	(223.07)

October 1998 - September 1999

Allocation percentages from 98-99 RP00-302 Cashout Refund calculation

Totals by Division	<u>MPS</u>	<u>KPS</u>	<u>Greenwood</u>	<u>PNG-KS</u>	<u>Total</u>
Production	1,709,077	1,199,067	610,364	505,714	4,024,222
Market	1,685,151	1,297,101			2,982,252
Totals	3,394,228	2,496,168	610,364	505,714	7,006,474

Allocation					
Percents	48.44%	35.63%	8.71%	7.22%	100.00%

Refund Total **\$ 2,560.70**

Refunds	\$ 1,240.51	\$ 912.29	\$ 223.07	\$ 184.83	\$ 2,560.70
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WILLIAMS GAS PIPELINES CENTRAL, INC.

P. O. Box 20008, Owensboro, Kentucky 42304

DETACH AND RETAIN THIS STATEMENT

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT, PLEASE NOTIFY US PROMPTLY AT (270) 926-8686.

INVOICE DATE	INVOICE/CONTRACT NUMBER	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
09/12/00	2580098	RP00-302 CASHOUT REFUND	\$2,560.70		\$2,560.70
CHECK NO.	VENDOR NO.	CHECK DATE	TOTALS		
348203	U036 1	09/14/00	\$2,560.70		\$2,560.70

CHECK NO.

348203

VENDOR NO.

U036 1



WILLIAMS GAS PIPELINES CENTRAL, INC.

P. O. Box 20008, Owensboro, Kentucky 42304

CHECK DATE

09/14/00

348203

BankBoston Maine, N.A.
South Portland, ME

52-153
112

PAY EXACTLY

\$2,560.70

PAY TWO THOUSAND FIVE HUNDRED SIXTY DOLLARS AND 70 CENTS

WILLIAMS GAS PIPELINES CENTRAL, INC.

TO THE
ORDER
OF

UTILICORP UNITED GAS SUPPLY SERVICES
ATTN: DIANE MICHALSKI
2533 NORTH 117TH AVENUE
OMAHA, NE 68164

[Signature]

AUTHORIZED SIGNATURE

348203 011201539 80 025 354



GAS PIPELINE
Central
P.O. Box 20008
3800 Frederica St.
Owensboro, Kentucky 42304
270/926-8686

Daryl R. Johnson
Manager, Rates and Strategic Planning

September 14, 2000

Dear Shipper:

On May 30, 2000, Williams Gas Pipelines Central, Inc. (Williams), filed in Docket No. RP00-302, pursuant to Article 9.8 (d) of the General Terms and Conditions of its tariff, a report of costs, revenues and proposed refunds related to cash-outs for the period October 1, 1998 through September 30, 1999. By letter order dated July 26, 2000, the Commission approved Williams' filing, resulting in the following refunds.

Enclosed please find a check representing your portion of Williams' refund related to cash-out activity. Also enclosed is a schedule reflecting the allocation by shipper of the total principal and interest related to cash-out activity based upon quantity delivered under the applicable rate schedules. Interest has been calculated through September 14, 2000, pursuant to Section 154.501 of the Commission's regulations.

If you have any questions related to your refund, please contact Daryl Johnson by phone at (270) 688-6726 or by e-mail at daryl.r.johnson@williams.com.

Sincerely,
A handwritten signature in black ink, appearing to read "Daryl R. Johnson", written over the word "Sincerely,".

DRJ:lb
Enclosures

WILLIAMS GAS PIPELINES CENTRAL, INC.
CASH-OUT REFUND REPORT
FOR THE PERIOD 10/98 THRU 09/99
(Interest Calculated Through September 14, 2000)

NAME	DTH	PERCENT ALLOCATION	REFUND AMOUNT	INTEREST	REFUND WITH INTEREST
ACME BRICK	458,044	0.0008445	\$52.68	\$5.34	\$58.02
AFG INDUSTRIES	437,321	0.0008063	\$50.29	\$5.10	\$55.39
AG PROCESSING INC	521,234	0.0009610	\$59.94	\$6.08	\$66.02
ALTAMONT MUNICIPAL GAS AUTHORITY	110,489	0.0002037	\$12.71	\$1.29	\$14.00
AMARILLO NATURAL	750	0.0000014	\$0.09	\$0.01	\$0.10
AMERICUS GAS COMPANY, INC.	61,826	0.0001140	\$7.11	\$0.72	\$7.83
AMOCO ENERGY TRADING CORP.	8,220,496	0.0151560	\$945.35	\$95.90	\$1,041.25
AMOCO PRODUCTION COMPANY	87,138	0.0001607	\$10.02	\$1.02	\$11.04
ANADARKO ENERGY	3,371,338	0.0062157	\$387.70	\$39.33	\$427.03
AQUILA ENERGY MARKETING CORPORATION	14,283,437	0.0263341	\$1,642.58	\$166.63	\$1,809.21
AQUILA ENERGY TRADING	4,328,016	0.0079795	\$497.72	\$50.49	\$548.21
ARGONIA, KANSAS CITY OF	28,284	0.0000521	\$3.25	\$0.33	\$3.58
AUBURN KANSAS, CITY OF	212,453	0.0003917	\$24.43	\$2.48	\$26.91
AURORA NATURAL GAS & ASSOC	789,444	0.0014555	\$90.79	\$9.21	\$100.00
AVANT UTILITIES AUTHORITY	14,245	0.0000263	\$1.64	\$0.17	\$1.81
BAYER CORPORATION	286,339	0.0005279	\$32.93	\$3.34	\$36.27
BILLINGS PUBLIC WORKS	24,537	0.0000452	\$2.82	\$0.29	\$3.11
BURLINGTON, OKLAHOMA CITY OF	9,425	0.0000174	\$1.09	\$0.11	\$1.20
CARGILL INC	1,058,902	0.0019523	\$121.77	\$12.35	\$134.12
CENTRAL MISSOURI UNIVERSITY	74,864	0.0001380	\$8.61	\$0.87	\$9.48
CERTAINTED CORPORATION	3,467,748	0.0063934	\$398.79	\$40.45	\$439.24
CIBOLA CORPORATION	172,054	0.0003172	\$19.79	\$2.01	\$21.80
CINERGY MARKETING	7,839	0.0000145	\$0.90	\$0.09	\$0.99
CITY UTILITIES OF SPRINGFIELD, MISSOURI	18,949,376	0.0349366	\$2,179.16	\$221.06	\$2,400.22
CLEVELAND OKLAHOMA, CITY OF	130,488	0.0002406	\$15.01	\$1.52	\$16.53
CMS CONTINENTAL	2,796,124	0.0051552	\$321.55	\$32.62	\$354.17
COLUMBIA ENERGY	17,480	0.0000322	\$2.01	\$0.20	\$2.21
COLUMBIA MARKETING	440	0.0000008	\$0.05	\$0.01	\$0.06
COMM OF LAND OFFICE - OK	71,641	0.0001321	\$8.24	\$0.84	\$9.08
CONAGRA, INC.	258,619	0.0004768	\$29.74	\$3.02	\$32.76
CONOCO INC.	1,075,939	0.0019837	\$123.73	\$12.55	\$136.28
COPAN PUBLIC WORKS AUTHORITY	36,231	0.0000668	\$4.17	\$0.42	\$4.59
COTTON VALLEY COMPRESSION	1,709,051	0.0031509	\$196.54	\$19.94	\$216.48
CROSS TIMBERS	408,975	0.0007540	\$47.03	\$4.77	\$51.80
CROSSTEX ENERGY	16,488	0.0000304	\$1.90	\$0.19	\$2.09
DENISON KANSAS, CITY OF	25,709	0.0000474	\$2.96	\$0.30	\$3.26
DUKE ENERGY FUELS	14,937,494	0.0275400	\$1,717.80	\$174.26	\$1,892.06
DUKE ENERGY LLC	1,073,997	0.0019801	\$123.51	\$12.53	\$136.04
DYNEGY MARKETING & TRADING	195,183	0.0003599	\$22.45	\$2.28	\$24.73
DYNEGY TRANS	108,277	0.0001996	\$12.45	\$1.26	\$13.71
ECKERT GAS COMPANY	6,170	0.0000114	\$0.71	\$0.07	\$0.78
EMPIRE DISTRICT ELECTRIC	9,733,944	0.0179463	\$1,119.39	\$113.56	\$1,232.95
ENERGY DYNAMICS, INC.	11,780	0.0000217	\$1.35	\$0.14	\$1.49
ENGAGE ENERGY	1,369,858	0.0025256	\$157.53	\$15.98	\$173.51
ENSERCO ENERGY	4,453,989	0.0082117	\$512.20	\$51.96	\$564.16
ENVIROTEK	79,094	0.0001458	\$9.09	\$0.92	\$10.01
EXCEL CORPORATION	957,401	0.0017651	\$110.10	\$11.17	\$121.27
FAG BEARING	60,772	0.0001120	\$6.99	\$0.71	\$7.70
FARMLAND INDUSTRIES, INC.	38,327,517	0.0706638	\$4,407.63	\$447.13	\$4,854.76
FLINT HILLS GAS CO., INC.	5,626	0.0000104	\$0.65	\$0.07	\$0.72
FORD KANSAS, CITY OF	43,393	0.0000800	\$4.99	\$0.51	\$5.50
FREEDOM MUNICIPAL TRUST	16,306	0.0000301	\$1.88	\$0.19	\$2.07

WILLIAMS GAS PIPELINES CENTRAL, INC.
CASH-OUT REFUND REPORT
FOR THE PERIOD 10/98 THRU 09/99
(Interest Calculated Through September 14, 2000)

NAME	DTH	PERCENT ALLOCATION	REFUND AMOUNT	INTEREST	REFUND WITH INTEREST
GATE OKLAHOMA, TOWN OF	6,180	0.0000114	\$0.71	\$0.07	\$0.78
GENERAL MOTORS CORPORATION	1,209,441	0.0022298	\$139.08	\$14.11	\$153.19
GENERATION SERVICES - WRI	15,552,090	0.0286731	\$1,788.47	\$181.43	\$1,969.90
GPM GAS CORP	40,716	0.0000751	\$4.68	\$0.48	\$5.16
GRANBY MISSOURI, CITY OF	139,030	0.0002563	\$15.99	\$1.62	\$17.61
GREELEY GAS COMPANY,	2,735,217	0.0050429	\$314.55	\$31.91	\$346.46
GROVE MUNICIPAL SERVICES AUTHORITY	998,767	0.0018414	\$114.86	\$11.65	\$126.51
GST STEEL	5,629,591	0.0103792	\$647.40	\$65.68	\$713.08
HAMILTON KANSAS, CITY OF	31,423	0.0000579	\$3.61	\$0.37	\$3.98
HEARTLAND CEMENT	179,316	0.0003306	\$20.62	\$2.09	\$22.71
HOWARD KANSAS, CITY OF	50,858	0.0000938	\$5.85	\$0.59	\$6.44
INDUSTRIAL GAS	22,773	0.0000420	\$2.62	\$0.27	\$2.89
IOLA KANSAS, CITY OF	1,007,743	0.0018580	\$115.89	\$11.76	\$127.65
J-W OPERATING	501,382	0.0009244	\$57.66	\$5.85	\$63.51
KANSAS CITY POWER & LIGHT	7,402,375	0.0136476	\$851.26	\$86.36	\$937.62
KANSAS GAS SERVICE	109,664,724	0.2021869	\$12,611.33	\$1,279.35	\$13,890.68
KANSAS INDUSTRIALS	1,648,133	0.0030386	\$189.53	\$19.23	\$208.76
KGM	3,190,193	0.0058817	\$366.87	\$37.22	\$404.09
KANSAS MUNICIPAL GAS AGENCY	4,365,488	0.0080486	\$502.03	\$50.93	\$552.96
KN MARKETING L.P.	977,013	0.0018013	\$112.36	\$11.40	\$123.76
KOCH GAS SERVICES COMPANY	4,072,134	0.0075077	\$468.29	\$47.51	\$515.80
LACLEDE GAS CO	17,434,886	0.0321444	\$2,004.99	\$203.40	\$2,208.39
LAWRENCE PAPER	170,141	0.0003137	\$19.57	\$1.98	\$21.55
LEANN GAS COMPANY	279,707	0.0005157	\$32.17	\$3.26	\$35.43
LEBO KANSAS, CITY OF	70,662	0.0001303	\$8.13	\$0.82	\$8.95
LIBERAL MISSOURI, CITY OF	47,451	0.0000875	\$5.46	\$0.55	\$6.01
MANNFORD PUBLIC WORKS AUTHORITY	99,885	0.0001842	\$11.49	\$1.17	\$12.66
MAPCO NATURAL	1,766,116	0.0032562	\$203.10	\$20.60	\$223.70
MARGASCO PARTNERSHIP	2,398,668	0.0044224	\$275.85	\$27.98	\$303.83
MARSHALL MUNICIPAL	928	0.0000017	\$0.11	\$0.01	\$0.12
MCLOUTH KANSAS, CITY OF	48,777	0.0000899	\$5.61	\$0.57	\$6.18
MISSOURI GAS ENERGY	84,249,333	0.1553290	\$9,688.59	\$982.86	\$10,671.45
MOUNTAIN ENERGY	10,114,947	0.0186488	\$1,163.21	\$118.00	\$1,281.21
MULBERRY KANSAS, CITY OF	50,569	0.0000932	\$5.81	\$0.59	\$6.40
NEBRASKA PUBLIC GAS AGENCY	1,081,306	0.0019936	\$124.35	\$12.61	\$136.96
NELAGONEY RURAL GAS	2,684	0.0000049	\$0.31	\$0.03	\$0.34
NEODESHA KANSAS CITY OF	279,805	0.0005159	\$32.18	\$3.26	\$35.44
NOBLE GAS PIPELINE	31,160	0.0000574	\$3.58	\$0.36	\$3.94
ONEOK GAS	22,577,875	0.0416264	\$2,596.43	\$263.39	\$2,859.82
ORLANDO OKLAHOMA, TOWN OF	7,556	0.0000139	\$0.87	\$0.09	\$0.96
ORONOGO MISSOURI, CITY OF	11,822	0.0000218	\$1.36	\$0.14	\$1.50
PACIFIC GAS & ELECTRIC ENERGY SERVICES	1,913,891	0.0035286	\$220.10	\$22.33	\$242.43
PACIFIC GAS & ELECTRIC ENERGY TRADING	335,825	0.0006192	\$38.62	\$3.92	\$42.54
PANENERGY / ASSOCIATED GAS PURCHASING	759,369	0.0014000	\$87.32	\$8.86	\$96.18
PETRO SOURCE GAS VENTURES	76,118	0.0001403	\$8.75	\$0.89	\$9.64
PHILLIPS J	129,401	0.0002386	\$14.88	\$1.51	\$16.39
PIONEER ENERGY	19,051	0.0000351	\$2.19	\$0.22	\$2.41
PLATTSBURG MISSOURI, CITY OF	256,763	0.0004734	\$29.53	\$3.00	\$32.53
POST ROCK GAS, INC.	684,573	0.0012621	\$78.72	\$7.99	\$86.71
PUBLIC SERVICE COMPANY OF COLORADO	20,224	0.0000373	\$2.33	\$0.24	\$2.57
QUESTAR / UNIVERSAL RESOURCES CORP.	1,825,000	0.0033647	\$209.87	\$21.29	\$231.16
READING KANSAS, CITY OF	14,571	0.0000269	\$1.68	\$0.17	\$1.85
RELIANT	148,089	0.0002730	\$17.03	\$1.73	\$18.76

WILLIAMS GAS PIPELINES CENTRAL, INC.
CASH-OUT REFUND REPORT
FOR THE PERIOD 10/98 THRU 09/99
(Interest Calculated Through September 14, 2000)

NAME	DTH	PERCENT ALLOCATION	REFUND AMOUNT	INTEREST	REFUND WITH INTEREST
RELIANT	6,289	0.0000116	\$0.72	\$0.07	\$0.79
RELIANT ENERGY	2,465,659	0.0045459	\$283.55	\$28.76	\$312.31
RESOURCE ENERGY	11,814	0.0000218	\$1.36	\$0.14	\$1.50
SEVERY GAS CO.	27,389	0.0000505	\$3.15	\$0.32	\$3.47
SOUTHERN MISSOURI GAS	1,823,713	0.0033623	\$209.72	\$21.28	\$231.00
TALBOT INDUSTRIES	41,129	0.0000758	\$4.73	\$0.48	\$5.21
TENASKA MARKETING	4,138,089	0.0076293	\$475.87	\$48.28	\$524.15
TENASKA MARKETING INC	1,008,350	0.0018591	\$115.96	\$11.76	\$127.72
TERRA NITROGEN CORP	1,223,891	0.0022565	\$140.75	\$14.28	\$155.03
TXU ENERGY	7,486,977	0.0138036	\$860.99	\$87.34	\$948.33
TYSON	836,139	0.0015416	\$96.16	\$9.75	\$105.91
UNION PACIFIC FUELS	700,349	0.0012912	\$80.54	\$8.17	\$88.71
UNITED CITIES GAS COMPANY	18,365,433	0.0338600	\$2,112.00	\$214.25	\$2,326.25
US GYPSUM	2,531,782	0.0046678	\$291.15	\$29.54	\$320.69
UTILICORP ENERGY SERVICES, INC.	4,767,049	0.0087889	\$548.20	\$55.61	\$603.81
*UTILICORP UNITED, GAS SUPPLY SERVICES	20,216,326	0.0372725	\$2,324.86	\$235.84	\$2,560.70 *
VIOLA KANSAS, CITY OF	7,165	0.0000132	\$0.82	\$0.08	\$0.90
VULCAN CHEMICAL	2,892,164	0.0053322	\$332.59	\$33.74	\$366.33
WAKITA UTILITIES AUTHORITY	22,638	0.0000417	\$2.60	\$0.26	\$2.86
WANN PUBLIC WORKS AUTHORITY	8,828	0.0000163	\$1.02	\$0.10	\$1.12
WBI PRODUCTION	1,785,930	0.0032927	\$205.38	\$20.83	\$226.21
WESTERN RESOURCES	1,822,606	0.0033603	\$209.60	\$21.26	\$230.86
WHEATON NATURAL GAS	64,428	0.0001188	\$7.41	\$0.75	\$8.16
WILLIAMS ENERGY	28,612,487	0.0527523	\$3,290.40	\$333.79	\$3,624.19
WILLIAMS GSR	290,745	0.0005360	\$33.43	\$3.41	\$36.84
 TOTAL CASH-OUT REFUND	 542,392,694	 0.9999997	 \$62,374.62	 \$6,327.58	 \$68,702.20

MISSOURI PUBLIC SERVICE
Northern System Gas Refund

	FIRM	INTERRUPTIBLE	TOTAL
Prior Years Balance	\$722,982.31	\$36,633.32	\$759,615.63
Refund Check Received From PEPL 6/00	\$42,040.00	\$0.00	\$42,040.00
6% Interest (6/14/00 - 11/01/00)	\$967.50	\$0.00	\$967.50
6% Interest (11/02/00 - 05/01/01)	\$1,250.83	\$0.00	\$1,250.83
Actual Gas Refunds:			
Prior Years' Balance	\$715,338.30	\$36,633.32	\$751,971.62
September 1999	\$1,149.65	\$0.00	\$1,149.65
October 1999	\$2,416.67	\$0.00	\$2,416.67
November 1999	\$955.44	\$0.00	\$955.44
December 1999	\$761.87	\$0.00	\$761.87
January 2000	\$1,128.29	\$0.00	\$1,128.29
February 2000	\$1,177.41	\$0.00	\$1,177.41
March 2000	\$811.08	\$0.00	\$811.08
April 2000	\$503.28	\$0.00	\$503.28
May 2000	\$236.15	\$0.00	\$236.15
June 2000	\$130.82	\$0.00	\$130.82
July 2000	\$105.90	\$0.00	\$105.90
August 2000	\$99.79	\$0.00	\$99.79
Actual Refunds Through August 2000	\$724,814.65	\$36,633.32	\$761,447.97
Balance as of August 31, 2000	<u>\$42,425.99</u>	<u>\$0.00</u>	<u>\$42,425.99</u>

GR-93-Mcfs

Firm	1,468,777	1,468,777
Interrup	-	
Transpo	-	
	<u>1,468,777</u>	
		Refund Rate Per Ccf
		\$0.00289

MPS proposes to change the refund rate from the present rate of \$0.0052/Mcf to \$0.0289/Mcf.

Panhandle Eastern Pipe Line Co

The Chase Manhattan Bank

0001059429

CMS ENERGY

2444 Westheimer Co
Houston TX 77056

Syracuse

50-9377213

P.O. BOX 4967
Houston, Texas 77210-4967

Date 06/14/2000

Pay Amount \$42,040.00*****

Pay FORTY TWO THOUSAND FORTY AND 00/100 US Dollar ***

To The
Order ofMISSOURI PUBLIC SERVICE COMPANY
DIRECTOR, ENERGY SUPPLY SERVICES
2533 N. 117TH AVE.
OMAHA NE 68164-8618*Laura L. Montzke*
Authorized Signature

⑈0001059429⑈ ⑆021309379⑆ 60118⑈07522⑈

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW WHEN CHECKING ENDORSEMENT

Check Date: 06/14/2000

Check No. 0001059429

Invoice Number	Invoice Date	Voucher ID	Gross Amount	Discount Available	Paid Amount
0608004204000	06/08/2000	00096948	42,040.00	0.00	42,040.00
REFUNDS PURSUANT TO ARTICLE VIII, SECTION 3 OF THE STIPULATION AND AGREEMENT DATED JULY 15, 1992 IN DOCKET NO. RP91-229-000, et al.					

*John - FYI only**MPD 229001*

Vendor Number	Vendor Name	Total Discounts	
0000023584	MISSOURI PUBLIC SERVICE COMPANY	\$0.00	
Check Number	Date	Total Amount	Total Paid Amount
0001059429	06/14/2000	\$42,040.00	\$42,040.00

CMS ENERGY

Panhandle Eastern Pipe Line

An International Energy Company

5444 Westheimer Road
Houston TX 77056-5306

Tel: 713 989 7000

P.O. Box 4967
Houston TX 77210-4967

June 16, 2000

Missouri Public Service Company
Dennis Odell
Director, Energy Supply Services
2533 N. 117th Ave.
Omaha, NE 68164-8618

Re: Panhandle Eastern Pipe Line Company
Docket No. RP91-229-000, et al.

Dear Sir/Madam:

This letter transmits your company's Refund Amount pursuant to Article III, Section 3 of the Stipulation and Agreement dated July 15, 1992 (Settlement) in the above referenced proceeding.

On March 29, 1999 Panhandle Eastern Pipe Line Company (Panhandle) and its principal consolidated subsidiaries, including Trunkline Gas Company (Trunkline) and Trunkline LNG Company (TLNG) were acquired by CMS Energy Corporation (CMS). The acquisition by CMS of TLNG requires the implementation of Article VIII, Section 3 of the Stipulation and Agreement dated July 15, 1992 in Trunkline's proceeding in Docket No. RP87-15-000, et al. On March 15, 2000, in the Commission's Order accepting Tariff Sheets and Refund Plan in Trunkline Gas Co. et al., Docket No. RP87-15-036 and Trunkline LNG Co., Docket No. RP92-122-008, the Commission approved a refund plan under which amounts would be provided to Panhandle pursuant to Article VIII, Section 3 of the Trunkline/TLC Settlement.

On May 1, 2000 Panhandle filed in Docket Nos. RP91-229-028 and RP91-229-029 revised tariff sheets and workpapers that reflected the flow-through of the refunds received from Trunkline. Each customer's refund amount calculated pursuant to Article VIII, Section 3 of the Settlement was shown in Appendix C. Panhandle's filing was approved by the Commission's letter order issued May 31, 2000.

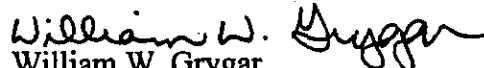
Panhandle Eastern Pipe Line Company
June 16, 2000
Page 2

Accordingly, Panhandle has herein enclosed a check for your company's share of the Settlement Refund.

If you have any questions regarding your refund or need additional information, please contact me at (713) 989-7000 or Bruce G. Reed, Project Director - Rates at (713) 989-7667.

Very truly yours,

PANHANDLE EASTERN PIPE LINE COMPANY


William W. Grygar
Vice President,
Rates and Regulatory

Panhandle Eastern Pipe Line Company
5444 Westheimer
Houston, TX 77056-5306

Missouri Public Service Company hereby acknowledges receipt from Panhandle of a check in the amount of \$42,040.00 representing my company's share of the Settlement Refund pursuant to the May 1, 2000 Compliance Filing and Article VIII, Section of the Stipulation and Agreement dated July 15, 1992 in Docket No. RP91-229-000 et al.

Very truly yours,

Missouri Public Service Company

By _____

Title _____

Date: _____

WILLIAMS TRANSITION COSTS

Enclosure 7

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-94	\$25,677.19	\$6,857.00	\$0.00	
Oct-94	\$25,677.19	\$5,602.00	\$0.00	
Nov-94	\$25,677.19	\$5,267.00	\$0.00	
Dec-94	\$51,006.29	\$18,648.30	\$0.00	
Jan-95	\$51,006.29	\$14,418.66	\$0.00	
Feb-95	\$51,006.29	\$10,017.38	\$0.00	
Mar-95	\$51,006.29	\$10,753.83	\$11,846.99	
Apr-95	\$51,006.29	\$11,081.62	\$60,085.05	
May-95	\$51,795.57	\$11,680.63	\$44,414.90	
Jun-95	\$51,795.57	\$10,552.09	\$32,246.56	
Jul-95	\$46,213.49	\$9,813.56	\$25,997.97	
Aug-95	\$46,213.49	\$9,460.31	\$22,833.86	
Sept.-95	\$46,213.49	\$8,813.29	\$25,462.25	
Oct.-95	\$51,998.65	\$21,932.49	\$32,194.05	
Nov.-95	\$52,000.65	\$8,924.49	\$56,441.44	
Dec-95	\$51,998.65	\$8,831.11	\$81,054.87	
Jan-96	\$51,998.65	\$8,344.90	\$106,423.18	
Feb-96	\$51,998.65	\$7,401.89	\$106,653.78	
Mar-96	\$51,998.65	\$6,820.58	\$82,002.31	
Apr-96	\$156,639.62	\$6,287.58	\$70,186.02	
May-96	\$51,998.65	\$6,351.91	\$40,987.69	
Jun-96	\$51,998.65	\$5,990.91	\$27,810.85	
Jul-96	\$51,998.65	\$5,695.70	\$23,207.48	
Aug-96	\$124,478.05	\$5,132.04	\$22,267.63	
Sept.-96	\$51,998.65	\$4,780.42	\$25,524.38	
Oct.-96	\$51,998.65	\$4,284.79	\$40,997.04	
Nov.-96	\$51,998.65	\$4,605.41	\$73,610.80	
Dec-96	\$51,998.65	\$3,849.70	\$128,799.43	
Jan-97	\$93,736.45	\$3,495.06	\$159,762.02	
Feb-97	\$68,954.28	\$3,333.59	\$102,625.46	
Mar-97	\$132,659.76	\$1,794.08	\$117,049.67	
Apr-97	\$50,597.16	\$2,293.87	\$91,383.91	
May-97	\$100,056.21	\$1,751.68	\$74,490.28	
Jun-97	\$50,597.16	\$1,687.07	\$41,878.04	
Jul-97	\$50,597.16	\$1,208.80	\$34,511.62	
Aug-97	\$70,786.76	\$894.88	\$33,133.21	

WILLIAMS TRANSITION COSTS

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-97	\$44,761.92	\$715.24	\$33,455.80	
Oct-97	\$44,761.92	\$334.07	\$40,892.51	
Nov-97	\$56,567.59	\$184.79	\$65,659.38	
Dec-97	\$0.00	\$0.00	\$85,601.20	
Jan-98	\$0.00	\$0.00	\$100,960.99	
Feb-98	\$0.00	\$0.00	\$89,652.34	
Feb-98 *	\$0.00	\$0.00	(\$48,730.10)	
Mar-98	\$0.00	\$0.00	\$84,693.63	
Apr-98	\$65,008.48	\$0.00	\$69,333.90	
May-98	\$0.00	\$0.00	\$40,320.13	
Jun-98	\$7.37	\$0.00	\$29,165.03	
Jul-98	\$0.00	\$0.00	\$28,344.93	
Aug-98	\$210.60	\$0.00	\$24,863.25	
Sep-98	\$0.00	\$0.00	\$27,676.92	
Oct-98	\$0.00	\$0.00	\$30,246.95	
Nov-98	\$0.00	\$0.00	\$30,171.53	
Dec-98	\$0.00	\$0.00	\$10,669.13	
Jan-99	\$0.00	\$0.00	\$20,802.89	
Feb-99	\$0.00	\$0.00	\$14,916.90	
Mar-99	\$0.00	\$0.00	\$13,547.12	
Apr-99	\$0.00	\$0.00	\$11,186.77	
Feb-98/Aug-98 adj**	\$0.00	\$0.00	\$160.32	
May-99	\$0.00	\$0.00	\$6,819.39	
Jun-99	\$0.00	\$0.00	\$4,506.07	
Jul-99	\$0.00	\$0.00	\$4,460.50	
Aug-99	\$0.00	\$0.00	\$3,950.85	
Total	\$2,360,699.57	\$259,892.72	\$2,619,211.07	\$1,381.22
<u>RP94-296 Refund Payment Received</u>				
	(\$55,820.80)	(\$11,696.99)		
Total	\$2,304,878.77	\$248,195.73	\$2,619,211.07	(\$66,136.57)
Sep-99 - actual recovery			\$4,655.42	
Oct-99 - estimated recovery			\$5,822.91	
Total Liability	\$2,304,878.77	\$248,195.73	\$2,629,689.40	(\$76,614.90)

Over Recovery in the amount of 76,614.90 transferred to the 98-99 annual ACA calculation.

* Adjusting entry to correct Dec 96 - May 97 and Aug 97 Total Recovery amounts.

**1998 Adjustment for company use gas.

99-00 ACA Year

Reversal of Oct-99 estimated recovery	(5,822.91)
Actual Recovery	
Oct-99	5,985.65
Nov-99	3,882.50
Dec-99	(0.48)
Jan-00	(0.01)
Feb-00	-
Mar-00	-
Apr-00	-
May-00	-
Jun-00	-
Jul-00	-
Aug-00	-
Total Additional Over Recovery	<u>4,044.75</u>

Over Recovery in the amount of 4,044.75 transferred to the 99-00 annual ACA calculation.

**Missouri Public Service
Southern System
Deferred Carrying Cost Balance (DCCB) Calculation
1999-00 ACA Year**

Annual Gas Cost Level
Gas Cost from Nov 99 ACA calculation 12,006,410
Gas Cost from Nov 98 ACA calculation 12,833,040
Gas Cost from Nov 97 ACA calculation 15,425,365
Average of 3 most recent gas cost calculations 13,421,605
10%
10% of average annual gas cost threshold 1,342,160

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Sales Volumes (in Mcf)	94,319	150,561	181,999	383,305	595,784	647,749	425,916	266,010	148,961	98,053	85,998	74,493	3,153,148
Cost of Gas Purchased and Produced	579,998	823,270	1,023,195	1,786,407	2,091,799	1,622,864	1,333,060	1,017,558	629,540	672,207	620,694	671,394	12,871,985
PGA - Estimated Annualized Unit Cost of Gas	\$2.8270	\$2.8270	\$3.0873	\$3.8170	\$3.8634	\$3.8634	\$3.8634	\$3.8634	\$3.9681	\$3.9681	\$5.4426	\$5.4426	
Actual Annualized Unit Cost of Gas	<u>6.1493</u>	<u>5.4680</u>	<u>5.6220</u>	<u>4.6605</u>	<u>3.5110</u>	<u>2.5054</u>	<u>3.1299</u>	<u>3.8253</u>	<u>4.2262</u>	<u>6.8556</u>	<u>7.2175</u>	<u>9.0129</u>	
Difference	-3.3223	-2.6410	-2.5347	-0.8435	0.3524	1.3580	0.7335	0.0381	-0.2581	-2.8875	-1.7749	-3.5703	
Actual Sales Volumes	94,319	150,561	181,999	383,305	595,784	647,749	425,916	266,010	148,961	98,053	85,998	74,493	
DCCB Monthly Over/(Under) Recovery	(313,358)	(397,634)	(461,318)	(323,334)	209,952	879,648	312,422	10,145	(38,446)	(283,124)	(152,639)	(265,959)	
1999-00 DCCB Yr to Date Over/(Under) Recovery	(313,358)	(710,992)	(1,172,310)	(1,495,644)	(1,285,692)	(406,044)	(93,622)	(83,476)	(121,922)	(405,047)	(557,685)	(823,645)	
10% of average annual gas cost threshold	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	1,342,160	
Absolute Value Rcvry Bal that exceeds threshold	-	-	-	153,483	-	-	-	-	-	-	-	-	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	-	(153,483)	-	-	-	-	-	-	-	-	
Interest at Prime Rate - Wall Street Journal - 1%	7.25%	7.25%	7.50%	7.50%	7.50%	7.75%	8.00%	8.00%	8.00%	8.50%	8.50%	8.50%	
Carrying Costs Refunded/(Collected)	-	-	-	(959)	-	-	-	-	-	-	-	-	(959)
DCCB Percent of Avg Annual Gas Costs	-2.33%	-5.30%	-8.73%	-11.14%	-9.58%	-3.03%	-0.70%	-0.62%	-0.91%	-3.02%	-4.16%	-6.14%	

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

Enclosure 8

Missouri Public Service
Prior Period Adjustment Summary
99-00 ACA Year

Southern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 99-00 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 99 ACA calculation	11,823,915.41	12,871,984.81	DCCB Cost of Gas
Adjustments:			
8/99 tracker - 11/98 to 6/99 ppas for term pool gas	(10,988.29)	(10,988.29)	
8/99 tracker - 5/99 ppa credit for transportation	(440.12)	(440.12)	
11/98 tracker - credit for Case No. GR-96-192	190,000.00		
5/99 tracker - 4/98 ppa credit for swing pool gas	3,952.44		
5/99 tracker - 4/98 ppa debit for storage costs	(29.56)		
Total Adjusted Gas Cost Nov 99 ACA	12,006,409.88		
<hr/>			
Gas Cost from Nov 98 ACA calculation	12,815,627.94		
Adjustments:			
5/99 tracker - 4/98 ppa credit for swing pool gas	(3,952.44)		
5/99 tracker - 4/98 ppa debit for storage costs	29.56		
9/97 tracker - ppa for 8/97 (a)	1,089.64		
1/98 tracker - ppa for 7/97 (b)	3,323.19		
7/98 tracker - ppa for 7/97 (c)	13,096.47		
7/98 tracker - ppa for 7/97 (d)	2,313.71		
7/98 tracker - ppa for 7/97 (e)	1,511.64		
Total Adjusted Gas Cost Nov 98 ACA	12,833,039.71		
<hr/>			
Gas Cost from Nov 97 ACA calculation	15,446,700.00		
Adjustments:			
9/97 tracker - ppa for 8/97 (a)	(1,089.64)		
1/98 tracker - ppa for 7/97 (b)	(3,323.19)		
7/98 tracker - ppa for 7/97 (c)	(13,096.47)		
7/98 tracker - ppa for 7/97 (d)	(2,313.71)		
7/98 tracker - ppa for 7/97 (e)	(1,511.64)		
Total Adjusted Gas Cost Nov 97 ACA	15,425,365.35		
<hr/>			
Adjustment related to time period prior to 96-97 ACA			
11/98 tracker - credit for Case No. GR-96-192	(190,000.00)		
		12,860,556.40	Adjusted Cost of Gas
		12,860,556.40	Sched. 1 Cost of Gas
		-	Difference

**Missouri Public Service
Northern System
Deferred Carrying Cost Balance (DCCB) Calculation
1999-00 ACA Year**

Annual Gas Cost Level													
Gas Cost from Nov 99 ACA calculation	4,634,386												
Gas Cost from Nov 98 ACA calculation	5,260,714												
Gas Cost from Nov 97 ACA calculation	<u>6,177,967</u>												
Average of 3 most recent gas cost calculations	5,357,689												
10% of average annual gas cost threshold	535,769												
	<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)	22,264	46,995	66,185	147,133	218,150	226,395	155,449	96,646	45,363	25,320	20,701	19,392	1,089,993
Cost of Gas Purchased and Produced	243,885	295,146	454,326	651,980	737,774	621,665	507,783	404,193	260,043	300,054	252,384	258,949	4,988,182
PGA - Estimated Annualized Unit Cost of Gas	\$3.1534	\$3.1534	\$3.3640	\$4.0167	\$4.0474	\$4.0474	\$4.0474	\$4.0474	\$4.3763	\$4.3763	\$5.8980	\$5.8980	
Actual Annualized Unit Cost of Gas	<u>10.9541</u>	<u>6.2804</u>	<u>6.8645</u>	<u>4.4312</u>	<u>3.3820</u>	<u>2.7459</u>	<u>3.2666</u>	<u>4.1822</u>	<u>5.7325</u>	<u>11.8507</u>	<u>12.1919</u>	<u>13.3532</u>	
Difference	-7.8007	-3.1270	-3.5005	-0.4146	0.6654	1.3015	0.7808	-0.1348	-1.3562	-7.4744	-6.2939	-7.4552	
Actual Sales Volumes	22,264	46,995	66,185	147,133	218,150	226,395	155,449	96,646	45,363	25,320	20,701	19,392	
DCCB Monthly Over/(Under) Recovery	(173,677)	(146,953)	(231,680)	(60,995)	145,168	294,645	121,381	(13,027)	(61,520)	(189,248)	(130,290)	(144,573)	
1999-00 DCCB Yr to Date Over/(Under) Recovery	(173,677)	(320,630)	(552,310)	(613,305)	(468,137)	(173,492)	(52,111)	(65,138)	(126,658)	(315,906)	(446,195)	(590,769)	
10% of average annual gas cost threshold	535,769	535,769	535,769	535,769	535,769	535,769	535,769	535,769	535,769	535,769	535,769	535,769	
Absolute Value Rcvry Bal that exceeds threshold	-	-	16,541	77,536	-	-	-	-	-	-	-	55,000	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	(16,541)	(77,536)	-	-	-	-	-	-	-	(55,000)	
Interest at Prime Rate - Wall Street Journal - 1%	7.25%	7.25%	7.50%	7.50%	7.50%	7.75%	8.00%	8.00%	8.00%	8.50%	8.50%	8.50%	
Carrying Costs Refunded/(Collected)	-	-	(103)	(485)	-	-	-	-	-	-	-	(390)	(978)
DCCB Percent of Avg Annual Gas Costs	-3.24%	-5.98%	-10.31%	-11.45%	-8.74%	-3.24%	-0.97%	-1.22%	-2.36%	-5.90%	-8.33%	-11.03%	

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

Missouri Public Service
Prior Period Adjustment Summary
1999-00 ACA Year

Northern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 99-00 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 99 ACA calculation	4,409,125.53	4,988,181.58	DCCB Cost of Gas

9/98 tracker - 5/98 ppa debit for Aquila invoice	(1,190.88)
9/98 tracker - 8/98 ppa debit for transportation	(26.37)
9/98 tracker - 7/98 ppa debit for transportation	(2,256.16)
10/98 tracker - 8/98 ppa debit for transportation	(2.88)
2/99 tracker - 11/97 ppa credit for Duke invoice	146,459.85
2/99 tracker - 12/97 ppa debit for Southern invoice	(3,611.50)
2/99 tracker - 11/97 ppa credit for Aquila invoice	6,748.28
3/99 tracker - 11/97-7/98 ppa credits for transportation	15,158.73
4/99 tracker - 12/97 ppa credit for capacity release	82.42
4/99 tracker - 12/97 ppa debit for transportation	(173.86)
2/99 tracker - 3/97 ppa credit for overrun charge	67,672.64
3/99 tracker - 3/97 ppa debit for overrun charge	(3,600.00)

Total Adjusted Gas Cost Nov 99 ACA 4,634,385.80

Gas Cost from Nov 98 ACA calculation 5,176,027.31

Adjustments:	
9/98 tracker - 5/98 ppa debit for Aquila invoice	1,190.88
9/98 tracker - 8/98 ppa debit for transportation	26.37
9/98 tracker - 7/98 ppa debit for transportation	2,256.16
10/98 tracker - 8/98 ppa debit for transportation	2.88
2/99 tracker - 11/97 ppa credit for Duke invoice	(146,459.85)
2/99 tracker - 12/97 ppa debit for Southern invoice	3,611.50
2/99 tracker - 11/97 ppa credit for Aquila invoice	(6,748.28)
3/99 tracker - 11/97-7/98 ppa credits for transportation	(15,158.73)
4/99 tracker - 12/97 ppa credit for capacity release	(82.42)
4/99 tracker - 12/97 ppa debit for transportation	173.86

9/97 tracker - ppa for 1/97 (a)	(378.78)
1/98 tracker - ppa for 1/97 (b)	(382.74)
2/98 tracker - ppa for 3/97 (c)	(10,973.41)
2/98 tracker - ppa for 1/97 (d)	29,472.73
3/98 tracker - ppa for 3/97 (e)	132,235.43
8/98 tracker - ppa for 6/95-8/95 (f)	95,901.00

Total Adjusted Gas Cost Nov 98 ACA 5,260,713.91

Gas Cost from Nov 97 ACA calculation 6,201,701.00

Adjustments:	
2/99 tracker - 3/97 ppa credit for overrun charge	(67,672.64)
3/99 tracker - 3/97 ppa debit for overrun charge	3,600.00

9/97 tracker - ppa for 1/97 (a)	378.78
1/98 tracker - ppa for 1/97 (b)	382.74
2/98 tracker - ppa for 3/97 (c)	10,973.41
2/98 tracker - ppa for 1/97 (d)	(29,472.73)
3/98 tracker - ppa for 3/97 (e)	(132,235.43)
2/97 tracker - ppa for 2/96 (g)	188,880.98
3/97 tracker - ppa for 8/96 (h)	1,430.73

Total Adjusted Gas Cost Nov 97 ACA 6,177,966.84

Adjustment related to time period prior to 96-97 ACA

2/97 tracker - ppa for 2/96 (g)	(188,880.98)
3/97 tracker - ppa for 8/96 (h)	(1,430.73)
8/98 tracker - ppa for 6/95-8/95 (f)	(95,901.00)

4,988,181.58 Adjusted Cost of Gas

4,988,180.22 Sched. 1 Cost of Gas

1.36 Difference

**Missouri Public Service
Eastern System
Deferred Carrying Cost Balance (DCCB) Calculation
1999-00 ACA Year**

Annual Gas Cost Level													
Gas Cost from Nov 99 ACA calculation	1,927,396												
Gas Cost from Nov 98 ACA calculation	1,842,919												
Gas Cost from Nov 97 ACA calculation	<u>1,181,660</u>												
Average of 3 most recent gas cost calculations	1,650,658												
	10%												
10% of average annual gas cost threshold	165,066												
	<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)	8,776	11,968	18,284	27,818	57,654	77,639	48,935	31,056	17,459	9,448	8,706	7,166	324,908
Cost of Gas Purchased and Produced	92,464	122,111	194,772	312,365	332,236	281,100	245,681	154,041	109,747	101,332	118,379	105,468	2,169,697
PGA - Estimated Annualized Unit Cost of Gas	\$3.7786	\$3.7786	\$3.8621	\$4.9994	\$5.0863	\$5.0863	\$5.1458	\$5.5436	\$5.5436	\$5.5436	\$6.6400	\$6.6400	
Actual Annualized Unit Cost of Gas	<u>10.5363</u>	<u>10.2033</u>	<u>10.6526</u>	<u>11.2287</u>	<u>5.7626</u>	<u>3.6206</u>	<u>5.0206</u>	<u>4.9601</u>	<u>6.2860</u>	<u>10.7248</u>	<u>13.5978</u>	<u>14.7189</u>	
Difference	-6.7577	-6.4247	-6.7905	-6.2293	-0.6763	1.4657	0.1252	0.5835	-0.7424	-5.1812	-6.9578	-8.0789	
Actual Sales Volumes	8,776	11,968	18,284	27,818	57,654	77,639	48,935	31,056	17,459	9,448	8,706	7,166	
DCCB Monthly Over/(Under) Recovery	(59,304)	(76,889)	(124,157)	(173,290)	(38,993)	113,794	6,127	18,121	(12,961)	(48,954)	(60,573)	(57,889)	
1999-00 DCCB Yr to Date Over/(Under) Recovery	(59,304)	(136,193)	(260,351)	(433,641)	(472,635)	(358,841)	(352,714)	(334,593)	(347,554)	(396,509)	(457,082)	(514,971)	
10% of average annual gas cost threshold	165,066	165,066	165,066	165,066	165,066	165,066	165,066	165,066	165,066	165,066	165,066	165,066	
Absolute Value Rcvry Bal that exceeds threshold	-	-	95,285	268,575	307,569	193,775	187,648	169,528	182,489	231,443	292,016	349,905	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	(95,285)	(268,575)	(307,569)	(193,775)	(187,648)	(169,528)	(182,489)	(231,443)	(292,016)	(349,905)	
Interest at Prime Rate - Wall Street Journal - 1%	7.25%	7.25%	7.50%	7.50%	7.50%	7.75%	8.00%	8.00%	8.00%	8.50%	8.50%	8.50%	
Carrying Costs Refunded/(Collected)	-	-	(596)	(1,679)	(1,922)	(1,251)	(1,251)	(1,130)	(1,217)	(1,639)	(2,068)	(2,478)	(15,232)
DCCB Percent of Avg Annual Gas Costs	-3.59%	-8.25%	-15.77%	-26.27%	-28.63%	-21.74%	-21.37%	-20.27%	-21.06%	-24.02%	-27.69%	-31.20%	

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

Missouri Public Service
Prior Period Adjustment Summary
9-00 ACA Year

Eastern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 99-00 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 99 ACA calculation	1,927,296.91	2,169,696.74	DCCB Cost of Gas
Adjustments:			
Subtract out reversal of estimate in Nov 99 ACA calc.	(358,126.99)		
9/98 tracker - 98 portion of PEPL pipeline credit	234,421.43		
9/98 tracker - 8/98 ppa debit for H & P invoice	(29.33)		
9/98 tracker - 2/98 ppa credit for H & P invoice	538.65		
9/98 tracker - 12/97 ppa credit for MoPipe invoice	7,012.11		
9/98 tracker - 97 portion of PEPL pipeline credit	65,558.57		
9/98 tracker - 96 portion of PEPL pipeline credit	4,979.26		
9/98 tracker - 95 portion of PEPL pipeline credit	39,477.57		
12/98 tracker - 10/97 ppa credit for Aquila invoice	76.59		
3/99 tracker - 12/97 ppa credit for MoGas invoice	6,190.80		
Total Adjusted Gas Cost Nov 99 ACA	1,927,395.57		

Gas Cost from Nov 98 ACA calculation	1,822,414.16
Adjustments:	
Add back estimated adj included in Nov 98 ACA calc.	358,126.99
9/98 tracker - 98 portion of PEPL pipeline credit	(234,421.43)
9/98 tracker - 8/98 ppa debit for H & P invoice	29.33
9/98 tracker - 2/98 ppa credit for H & P invoice	(538.65)
9/98 tracker - 12/97 ppa credit for MoPipe invoice	(7,012.11)
12/98 tracker - 10/97 ppa credit for Aquila invoice	(76.59)
3/99 tracker - 12/97 ppa credit for MoGas invoice	(6,190.80)
9/97 tracker - ppa for 8/97 (a)	(500.00)
6/98 tracker - ppa for 2/96 (b)	4,386.85
6/98 tracker - ppa for 2/96 (c)	2,602.47
8/98 tracker - ppa for 7/95 (d)	(95,901.00)
Total Adjusted Gas Cost Nov 98 ACA	1,842,919.22

Gas Cost from Nov 97 ACA calculation	1,232,612.00
Adjustments:	
9/98 tracker - 97 portion of PEPL pipeline credit	(65,558.57)
9/97 tracker - ppa for 8/97 (a)	500.00
9/96 tracker - ppa for 2/96-5/96 (e)	7,513.14
9/96 tracker - ppa for 2/96-5/96 (f)	12,790.79
9/96 tracker - ppa for 2/96 (g)	(5,460.46)
6/97 tracker - ppa for 2/96-7/96 (h)	(737.15)
Total Adjusted Gas Cost Nov 97 ACA	1,181,659.75

Adjustment related to time period prior to 96-97 ACA	
9/98 tracker - 96 portion of PEPL pipeline credit	(4,979.26)
6/98 tracker - ppa for 2/96 (b)	(4,386.85)
6/98 tracker - ppa for 2/96 (c)	(2,602.47)
9/96 tracker - ppa for 2/96-5/96 (e)	(7,513.14)
9/96 tracker - ppa for 2/96-5/96 (f)	(12,790.79)
9/96 tracker - ppa for 2/96 (g)	5,460.46
6/97 tracker - ppa for 2/96-7/96 (h)	737.15
9/98 tracker - 95 portion of PEPL pipeline credit	(39,477.57)
8/98 tracker - ppa for 7/95 (d)	95,901.00

2,169,696.74 Adjusted Cost of Gas

2,169,696.74 Sched. 1 Cost of Gas

- Difference

Month	PGA Factor	Month	PGA Factor	PGA Change (11/00)	Revenue Impact (Winter Season)
Nov-99	3.6523	Nov-00	5.8957	2.2434	693,291
Dec-99	3.6523	Dec-00	5.8957	2.2434	1,279,372
Jan-00	3.6523	Jan-01	5.8957	2.2434	1,686,770
Feb-00	3.6523	Feb-01	5.8957	2.2434	1,550,970
Mar-00	3.6523	Mar-01	5.8957	2.2434	1,136,425

Estimated Winter Season Change in Revenue	6,346,828
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Percent Change Between PGA Factors **61.42%**

Firm Sales Volume @ Burnertip	3,823,123
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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.

**Missouri Public Service
Northern System**

2000-2001 Winter Season Revenue Impact from Winter PGA Filing

Month	PGA Factor	Month	PGA Factor	PGA Change (11/00)	Revenue Impact (Winter Season)
Nov-99	4.1366	Nov-00	6.7027	2.5661	304,663
Dec-99	4.1366	Dec-00	6.7027	2.5661	562,213
Jan-00	4.1366	Jan-01	6.7027	2.5661	741,242
Feb-00	4.1366	Feb-01	6.7027	2.5661	681,566
Mar-00	4.1366	Mar-01	6.7027	2.5661	499,396

Estimated Winter Season Change in Revenue	2,789,081
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Percent Change Between PGA Factors **62.03%**

Firm Sales Volume @ Burnertip	1,468,777
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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.

**Missouri Public Service
Eastern System
2000-2001 Winter Season Revenue Impact from Winter PGA Filing**

Month	PGA Factor	Month	PGA Factor	PGA Change (11/00)	Revenue Impact (Winter Season)
Nov-99	6.1489	Nov-00	9.2690	3.1201	95,603
Dec-99	6.1489	Dec-00	9.2690	3.1201	176,423
Jan-00	6.1489	Jan-01	9.2690	3.1201	232,602
Feb-00	6.1489	Feb-01	9.2690	3.1201	213,876
Mar-00	6.1489	Mar-01	9.2690	3.1201	156,711

Estimated Winter Season Change in Revenue 875,215

Percent Change Between PGA Factors 50.74%

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.

To address the staff's issues regarding reliability in the MO PSC Case No. GR-99-435, certain schedules and explanations have been included in this filing.

1. **Summary of Design Day Study for the North, South and East Systems** for 11/99 through 3/00 period. 81 HDD has been used for the calculations.
2. **THROUGHPUTS FOR THE MPS SYSTEMS** – Company's response to Item 2.b. of the Staff's Recommendations.
3. The MPS North and South systems had no contract changes during the 99-00 ACA period. The Eastern system reduced Panhandle Eastern entitlement from 5700 Dth/day to 4700 Dth/day during the period due to a plan for coverage of a 72 HDD event.

For the 00-01 ACA period, MPS has contracted for Panhandle Eastern coverage of 5,200 Dth per day for the Eastern system which will provide for a slight, less than 1%, negative reserve margin.

Changes in cost for the upcoming year include contract changes for the Northern System, and increase of slightly more than \$200,000. Cost changes, \$27,000 increase, on the Eastern System are associated with the incremental 500 units purchased to eliminate the negative reserve margin. No changes have occurred on the Southern System.

**Summary of Design Day Study
on MPS South System from 11/99 through 3/00**

<u>Delivery Point</u>	<u>R Squared Factor</u>	<u>Intercept</u>	<u>Variable</u>	<u>HDD</u>	<u>Point Requirement</u>	<u>Per Degree Day</u>	<u>Delivery Point</u>	<u>Contracted Capacity</u>	<u>Reserve Margin</u>
Weston	94.29%	46.94	9.65	81	828	10.22	113892		
Tracy	99.47%	(0.45)	1.05	81	84	1.04	113880		
Lexington, Richmond & Henrietta	94.25%	455.85	92.90	81	7,981	98.53	113872		
Nevada	91.12%	277.00	75.77	81	6,415	79.20	113856		
Marshall	94.09%	297.76	99.86	81	8,386	103.53	113852		
Sedalia	94.56%	636.18	221.33	81	18,564	229.19	113876		
Platte City	93.26%	115.60	22.55	81	1,942	23.98	118864		
Clinton	94.74%	250.52	65.17	81	5,529	68.26	118812		
Total MPS	95.05%	2,079.40	588.28	81	49,729	613.94		50,109	0.76%

**Summary of Design Day Study
on MPS North from 11/99 through 3/00**

<u>Delivery Point</u>	<u>R Squared Factor</u>	<u>Intercept</u>	<u>Variable</u>	<u>HDD</u>	<u>Point Requirement</u>	<u>Per Degree Day</u>	<u>Contracted Capacity</u>	<u>Reserve Margin</u>
MPS North 99/00 Regression	91.71%	1,135.62	198.17	81	17,187	212.19	18,000	4.73%

**Summary of Design Day Study
on MPS East from 11/99 through 3/00**

<u>Delivery Point</u>	<u>R Squared Factor</u>	<u>Intercept</u>	<u>Variable</u>	<u>HDD</u>	<u>Point Requirement</u>	<u>Per Degree Day</u>	<u>Contracted Capacity</u>	<u>Reserve Margin</u>
Salem	87.09%	62.48	13.47	81	1,154	14.25		
Owensville	88.16%	15.99	6.33	81	529	6.53		
Rolla	88.64%	112.91	42.70	81	3,572	44.10		
MPS East System	88.90%	191.38	62.51	81	5,255	64.87	4,700	-10.55%

Throughputs for the MPS Systems

ACA Period	Peak Date	Unadjusted Degree Day	Peak Day Usage System			Design Day Usage System			Variance Actual versus Design System			Variance % from Design System		
			East	North	South	East	North	South	East	North	South	East	North	South
97/98	03/11/1998	54	3,483	11,304	37,485	3,503	11,458	33,153	(20)	(154)	4,332	-0.57%	-1.35%	13.07%
98/99	01/04/1999	61	4,021	14,788	42,385	3,957	12,943	37,450	64	1,845	4,935	1.61%	14.25%	13.18%
99/00	12/20/1999	48	3,038	10,552	30,842	3,114	10,185	29,469	(76)	367	1,373	-2.44%	3.60%	4.66%