

UTILICORP UNITED

October 25, 1999

Mr. Dale Hardy Roberts, Secretary/Chief Regulatory Law Judge
Missouri Public Service Commission
301 West High
Jefferson City, MO 65101

RE: Case No. GR-99-435

Dear Mr. Roberts:

FILED²
OCT 26 1999
Missouri Public
Service Commission

Enclosed are an original and two copies of PSC MO. No. 5, 17th Revised Sheet No. 43, 20th Revised Sheet No. 44 and 10th 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, Take-Or-Pay 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 1999 through March 2000. The tariff rate changes for the Southern System are based on the Williams Gas Pipelines Central, Inc. filings of their FERC Gas Tariffs, Eighth Revised Sheet No. 6, Eleventh Revised Sheet No. 6A and First 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-Third Revised Sheet No. 5, Fifty-Fourth Revised Sheet No. 7, Tenth Revised Sheet No. 9, Twelfth Revised Sheet No. 11 and Twenty-Third 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 over or under purchased gas cost for the year ended August 1999 and the proposed changes in the ACA rates to be effective November 9, 1999. Detailed supporting workpapers are available for the Commission Staff audit.

The summary schedule shows that revenue recovery was more than purchased gas cost in the amount of \$225,922.20 for the Southern System, less than purchased gas cost in the amount of \$242,784.62 for the Northern System and less than purchased gas cost in the amount of \$663,577.95 for the Eastern System. Total revenue recovery was \$680,440.37 less than purchased gas cost.

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 refunds from Williams Gas Pipelines Central, Inc. on May 4, 1999 in the amount of \$377,692.98 relating to Federal Energy Regulatory Commission (FERC) Docket No. RP93-109, June 11, 1999 in the amount of \$14,560.53 relating to Gas Research Institute refunds in FERC Docket No. GT97-31, and September 20, 1999 in the amount of \$28,745.59 relating to interruptible transportation and authorized overrun service revenue in FERC Docket No. RP99-451. 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 did not receive any refunds from Panhandle Eastern Pipe Line Company during this ACA period. A residual refund amount remains in the account from the prior ACA year's refunds. Missouri Public Service has determined a new refund factor based on the residual amount for the Northern System.

Take-Or-Pay Factor - 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. Williams Gas Pipelines Central, Inc. ceased billings to Missouri Public Service for Take-Or-Pay costs prior to the current ACA period. Missouri Public Service is carrying forward the current period over recovery balance of \$5,082.34 to the annual ACA calculation.

Transition Cost - Southern System

Enclosure 8 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 \$76,614.90 to the annual ACA calculation.

Take-Or-Pay Factor - Northern System

Enclosure 9 lists the history of the payments made by Missouri Public Service to Panhandle Eastern Pipe Line Company and the recovery of these payments from the Northern System customers. Panhandle Eastern Pipe Line Company ceased billings to Missouri Public Service for Take-Or-Pay costs prior to the current ACA period. Missouri Public Service is carrying forward the current period over recovery balance of \$3,606.50 to the annual ACA calculation.

Transition Cost - Northern System

Enclosure 10 lists the history of the payments made by Missouri Public Service to Panhandle Eastern Pipe Line Company and the recovery of these payments from the Northern System customers. Panhandle Eastern Pipe Line Company ceased billings to Missouri Public Service for Transition costs prior to the current ACA period. Missouri Public Service is carrying forward the current period over recovery balance of \$330.64 to the annual ACA calculation.

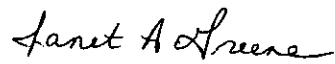
Deferred Carrying Cost Balance

Enclosures 11, 12 and 13 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 \$935 for the Southern System, zero carrying costs for the Northern System, and carrying costs collected from the customer in the amount of \$11,491 for the Eastern System.

Enclosures 14, 15 and 16 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 \$2,584,959 or 33.36% for the Southern System, an increase in the amount of \$1,190,367 or 36.01% for the Northern System and an increase in the amount of \$472,656 or 19.95% for the Eastern System.

Missouri Public Service respectfully requests that these rates become effective with volumes taken on and after November 9, 1999.

Sincerely,

A handwritten signature in cursive script, reading "Janet A. Greene".

Janet A. Greene
Rate Analyst

Enclosures

cc: Office of the Public Counsel (2)

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No. 517th

(Original)

SHEET NO. 43Cancelling P.S.C. MO. No. 516th

(Revised)

(Original)

SHEET NO. 43

(Revised)

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	\$.38634	\$.38634	\$.33504
Actual Cost Adjustment	\$(-.00566)	\$(-.00566)	\$(-.00777)
Refunds	\$(-.01545)	\$(-.01545)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.36523	\$.36523	\$.32727

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

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No. 520th

(Original)

SHEET NO. 44Cancelling P.S.C. MO. No. 519th

(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	\$.40474	\$.40474	\$.30507
Actual Cost Adjustment	\$.00944	\$.00944	\$ -0-
Refunds	\$ (.00052)	\$ (.00052)	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.41366	\$.41366	\$.30507

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

STATE OF MISSOURI, PUBLIC SERVICE COMMISSION

P.S.C. MO. No. 5 10th(Original) SHEET NO. 44.1Cancelling P.S.C. MO. No. 5 9th(Revised)
(Original) SHEET NO. 44.1
(Revised)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	\$.50863	\$.50863	\$.51996
Actual Cost Adjustment	\$.10626	\$.10626	\$ -0-
Refunds	\$ -0-	\$ -0-	\$ -0-
TOP Factor	\$ -0-	\$ -0-	\$ -0-
TC Factor	\$ -0-	\$ -0-	\$ -0-
Total PGA Per Ccf	\$.61489	\$.61489	\$.51996

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.

MISSOURI PUBLIC SERVICE
Enclosure 1
**Southern System Annualized Gas Cost Calculation
To Reflect Current WNG & Spot Market Rates**

FIRM	Annual Volume	Monthly Capacity Reserved	No. of Mth Reserved	Tariff Rate	Annual Cost
<u>Williams Natural Gas</u>					
TSS					
No-Notice Fee - Market		39,618	12	\$0.0154	\$7,321
Reservation - FSS Deliverability		25,412	12	\$0.5151	\$157,077
Reservation - FTS-Production		13,841	12	\$5.6834	\$943,967
GSR Surcharge - Production		13,841	12	\$0.3195	\$53,066
Reservation - FTS-Market		39,618	12	\$2.8417	\$1,350,990
GSR Surcharge - Market		39,618	12	\$0.3195	\$151,895
GRI - Market		39,618	12	\$0.1420	\$67,509
FTS					
Production - Reservation		11,845	12	\$5.6834	\$807,838
Production - Balancing		11,845	12	\$0.1630	\$23,169
GSR Surcharge - Production		11,845	12	\$0.3195	\$45,414
Market - Reservation		10,491	12	\$2.8417	\$357,747
Market - Balancing		10,491	12	\$0.1630	\$20,520
GSR Surcharge - Market		10,491	12	\$0.3195	\$40,222
Market - GRI		10,491	12	\$0.1420	\$17,877
Spot Market Purchases	3,896,019			\$2.7530	\$10,725,740
Total Annual Cost					<u>\$14,770,352</u>
Sales Volume at Burnertip	3,823,123				
Cost per MCF at Burnertip					<u>\$3.8634</u>

Highest WACOG (Winter Period)	Nov 96 - Mar 97	Nov 97 - Mar 98	Nov 98 - Mar 99	Average WACOG
	\$3.4396	\$2.4154	\$2.3420	\$2.7323
Highest Avg WACOG-Winter Period (Avg of winter seasons with the highest of 3 averages)				\$3.0860
				October 1999 Gas Commodity Costs \$2.5168

INTERRUPTIBLE

<u>Williams Natural Gas</u>			
ITS-P		@150%	
Commodity	126,325	\$0.3135	\$39,603
ITS-M		@150%	
Commodity	125,491	\$0.1638	\$20,555
Spot Market Price Per MCF	128,014	\$2.7530	\$352,424
Total Annual Cost			<u>\$412,582</u>
Sales Volume at Burnertip	123,143		
Cost per MCF at Burnertip			<u>\$3.3504</u>

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	\$0.5151
Reservation - FSS Capacity	\$0.0293
Reservation - FTS-P	\$5.6834
Reservation - FTS-M	\$2.8417
GSR Surcharge Production	\$0.3195
GSR Surcharge Market	\$0.3195
GRI	\$0.1420

FTS	
Production - Reservation	\$5.6834
Production - Balancing	\$0.1630
Market - Reservation	\$2.8417
Market - Balancing	\$0.1630
GSR Surcharge Production	\$0.3195
GSR Surcharge Market	\$0.3195
Market - GRI	\$0.1420

Production	
Commodity - FTS-P	\$0.0124
GRI Funding Unit - Commodity - Others	\$0.0075
FERC Annual Charge Adjustment	\$0.0022
Production Field Zone	\$0.0221
Commodity - FTS-M	\$0.0061
GRI Funding Unit - Commodity - Others	\$0.0075
FERC Annual Charge Adjustment	\$0.0022
Market Zone	\$0.0158

Injection/Withdrawal - FSS	\$0.0122
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Interruptible Rates

ITS-P	
Commodity	\$0.1993
ITS-M	
Commodity	\$0.0995
GRI Funding Unit - Commodity - Others	\$0.0075
FERC Annual Charge Adjustment	\$0.0022
WNG Production Area Loss	1.32%
WNG Market Area Loss	0.66%
WNG Storage Loss	2.35%

Note: From FERC Gas Tariff: Eighth Revised Sheet No. 6 Effective 8/1/99, Eleventh Revised Sheet No. 6A Effective 8/1/99, and First Revised Sheet No. 6B Effective 1/1/99.

Calculated Inputs

	<u>Firm</u>	<u>Storage</u>	<u>Total Firm</u>	<u>Interruptible</u>	<u>Total System</u>
Annual Throughput at Burnertip Per GR-93-172	2,796,691	1,026,432	3,823,123	123,143	3,946,266
Annual Throughput at Citygate	2,850,016	1,046,003	3,896,019	125,491	4,021,508
Annual Throughput at Production Area	2,850,727	1,071,175	3,921,902	126,325	4,048,227
Annual Throughput at Wellhead	2,888,860	1,085,504	3,974,364	128,014	4,102,378

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

	<u>Nov-99</u>	<u>Dec-99</u>	<u>Jan-00</u>	<u>Feb-00</u>	<u>Mar-00</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Sales Requirements	400,537	574,970	629,994	505,161	406,326	2,516,989
WNG Market Area Loss	0.66%	0.66%	0.66%	0.66%	0.66%	
WNG Production Area Loss	1.32%	1.32%	1.32%	1.32%	1.32%	
Total Supply - Fuel Loss	408,592	586,532	642,663	515,320	414,497	
Storage Injection	0	0	0	0	0	0
Storage Injection Loss	<u>2.35%</u>	<u>2.35%</u>	<u>2.35%</u>	<u>2.35%</u>	<u>2.35%</u>	
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	408,592	586,532	642,663	515,320	414,497	2,567,604
Contracted Fixed Price Supply	127,158	131,396	131,396	122,919	131,396	644,265
Contracted Price	<u>\$ 2.6170</u>	<u>\$ 2.6170</u>	<u>\$ 2.6170</u>	<u>\$ 2.6170</u>	<u>\$ 2.6170</u>	
Total Cost	<u>\$ 332,772</u>	<u>\$ 343,863</u>	<u>\$ 343,863</u>	<u>\$ 321,679</u>	<u>\$ 343,863</u>	<u>\$ 1,686,040</u>
(Contracted Fixed Price Supply only applies in the winter months.)						
Total Supply (Purchases Less Fixed)	281,434	455,136	511,267	392,401	283,101	1,923,339
Forecasted Price (NYMEX-WNG Basis)	<u>\$ 2.840</u>	<u>\$ 3.015</u>	<u>\$ 3.035</u>	<u>\$ 2.850</u>	<u>\$ 2.680</u>	
Total Cost	<u>\$ 799,273</u>	<u>\$ 1,372,235</u>	<u>\$ 1,551,695</u>	<u>\$ 1,118,343</u>	<u>\$ 758,711</u>	<u>\$ 5,600,257</u>
Storage Withdrawal	123,692	199,165	222,226	169,815	123,692	838,589
Storage WACOG	<u>\$ 2.3782</u>	<u>\$ 2.3782</u>	<u>\$ 2.3782</u>	<u>\$ 2.3782</u>	<u>\$ 2.3782</u>	
Total Cost	<u>\$ 294,164</u>	<u>\$ 473,654</u>	<u>\$ 528,498</u>	<u>\$ 403,853</u>	<u>\$ 294,164</u>	<u>\$ 1,994,333</u>
<u>Forecasted Gas Commodity Cost</u>	1,426,209	2,189,752	2,424,056	1,843,875	1,396,738	9,280,630
<u>Forecasted Sales Gas Quantity</u>	532,284	785,697	864,889	685,135	538,189	3,406,193
<u>Gas Cost (Commodity) Dth</u>						\$2.7246
SUMMARY OF UPSTREAM COSTS						
Williams Natural Gas Pipeline - Firm						
FT Commodity (Production Area)	408,592	586,532	642,663	515,320	414,497	
FT Commodity (Market Area)	403,198	578,790	634,179	508,518	409,026	
Total Units	811,790	1,165,322	1,276,842	1,023,838	823,523	5,101,315
Cost/Dth - Production Area	\$0.0221	\$0.0221	\$0.0221	\$0.0221	\$0.0221	
Cost/Dth - Market Area	<u>\$0.0158</u>	<u>\$0.0158</u>	<u>\$0.0158</u>	<u>\$0.0158</u>	<u>\$0.0158</u>	
Total WNG Commodity Costs	<u>\$15,400</u>	<u>\$22,107</u>	<u>\$24,223</u>	<u>\$19,423</u>	<u>\$15,623</u>	<u>\$96,777</u>
<u>Forecasted Northern Upstream Costs</u>	15,400	22,107	24,223	19,423	15,623	96,777
<u>Forecasted Firm Sales Quantity</u>	532,284	785,697	864,889	685,135	538,189	3,406,193
<u>Upstream Cost/Dth</u>						\$0.0284
						\$ 2.7530

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

Inside FERC Posted Price October 99	\$	2.43	
WNG Market Area Loss		0.66%	
WNG Production Area Loss		<u>1.32%</u>	
WNG Index Adjusted for Fuel	\$	2.4789	
WNG Cost/Dth Field Zone		\$0.0221	
WNG Cost/Dth - Market Zone		<u>\$0.0158</u>	
		\$2.5168	
Total Gas Commodity Costs		<table border="1"><tr><td>\$2.5168</td></tr></table>	\$2.5168
\$2.5168			

MISSOURI PUBLIC SERVICE
Enclosure 2
**Northern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates**

FIRM	Annual Volume	Monthly Capacity Reserved	No. Of Mth Reserved	Tariff/ Contracted Rate	Annual Cost
Panhandle Eastern Pipe Line					
Contract 13372 & 13334					
EFT Reservation Rates					
Field Zone Reservation		12,000	12	\$4.5210	\$651,028
Market Zone Access		12,000	12	\$3.1542	\$454,206
Market Zone Mileage		12,000	12	\$1.7205	\$247,748
Settlement Surcharges		12,000	12	\$0.0000	\$0
Canadian Resolutions Surcharge		12,000	12	\$0.0000	\$0
GSR Surcharge		12,000	12	\$0.0000	\$0
Stranded Transportation Cost Surcharge		12,000	12	\$0.0000	\$0
Miscellaneous Stranded Costs Surcharge		12,000	12	\$0.0000	\$0
Contract 13373					
IOS Deliverability Charge		1,000	12	\$3.3500	\$40,200
IOS Capacity Charge	99,996			\$0.4028	\$40,278
Contract 13377					
WS Deliverability Charge		6,275	12	\$3.3500	\$252,255
WS Capacity Charge	627,504			\$0.4028	\$252,759
Spot Market Purchases	1,521,875			\$2.4828	\$3,778,511
Total Annual Cost (Excluding Contract 13379)					\$5,716,985
Sales Volume at Burnertip					\$3.8923
Contract 13379 - Winter Rates					
EFT Reservation Rates					
Market Zone Access		6,000	5	\$2.1320	\$63,961
Market Zone Mileage		6,000	5	\$3.4889	\$104,668
Settlement Surcharges		6,000	5	\$0.0000	\$0
GSR Surcharge		6,000	5	\$0.0000	\$0
Stranded Transportation Cost Surcharge		6,000	5	\$0.0000	\$0
Miscellaneous Stranded Costs Surcharge		6,000	5	\$0.0000	\$0
					\$168,629
Winter Cost per Mcf at Burnertip	1,086,896				\$0.1551
Cost per MCF at Burnertip					\$4.0474
Highest WACOG (Winter Period)					
	Nov 96 - Mar 97	Nov 97 - Mar 98	Nov 98 - Mar 99	Average WACOG	
	\$3.1569	\$2.4218	\$2.1525	\$2.5771	
Highest Avg WACOG-Winter Period (Avg of winter seasons with the highest 3 averages)				\$2.8670	
October 1999 Gas Commodity Costs				\$2.5224	
INTERRUPTIBLE					
Panhandle Eastern Pipe Line					
IT Interruptible Rates				@150%	
Field Zone				\$0.2792	\$0.2792
Market Zone Access				\$0.1553	\$0.1553
Market Zone Mileage				\$0.0999	\$0.0999
GRI Funding Unit				\$0.0113	\$0.0113
ACA Unit Charge				\$0.0033	\$0.0033
TOP Volumetric Surcharge				\$0.0000	\$0.0000
Settlement Surcharges				\$0.0000	\$0.0000
Canadian Resolution Surcharges				\$0.0000	\$0.0000
Stranded Transportation Cost Surcharge				\$0.0000	\$0.0000
Miscellaneous Stranded Costs Surcharge				\$0.0189	\$0.0189
Spot Market Price Per MCF	\$2.4828				\$2.4828
Total Annual Cost					\$3.0507
Cost per MCF at Burnertip					\$3.0507

MISSOURI PUBLIC SERVICE - NORTHERN SYSTEM

Gas Cost Inputs

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

PEPL Rates	Tariff Rate	Contract 13372 & 13334	Contract 13379
		Discount Rate	Discount Rate
PEPL EFT Reservation Rates			
Field Zone Reservation	\$4.7300	\$4.5210	
Market Zone Access	\$3.3000	\$3.1542	\$2.1320
Market Zone Mileage 201-300 Block	\$1.8000	\$1.7205	\$3.4889
GRI Funding Unit	\$0.2300		
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 EFT Commodity Rates			
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	\$0.0000		
Total Market Zone Commodity	\$0.0103		
PEPL IT Interruptible Rates			
Field Zone	\$0.1861		
Market Zone Access	\$0.1035		
Market Zone Mileage	\$0.0666		
GRI Funding Unit	\$0.0075		
ACA Unit Charge	\$0.0022		
TOP Volumetric Surcharge	\$0.0000		
Settlement Surcharges	\$0.0000		
Canadian Resolution Surcharges	\$0.0000		
Stranded Transportation Cost Surcharge	\$0.0000		
Miscellaneous Stranded Costs Surcharge	\$0.0126		
PEPL In/Out Storage Rates			
Deliverability Charge	\$3.3500		
Capacity Charge	\$0.4028		
Injection/Withdrawal Charge	\$0.0033		
PEPL Winter Storage Rates			
Deliverability Charge	\$3.3500		
Capacity Charge	\$0.4028		
Injection/Withdrawal Charge	\$0.0033		
PEPL Gathering Loss	0.37%		
PEPL Field Zone Loss	0.81%		
PEPL Market Zone Loss	1.35%		
PEPL Storage Injection Loss	1.28%		
PEPL Storage Withdrawal Loss	0.25%		

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

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

Calculated Inputs	Firm		Storage		Total		Interruptible	Total
	Firm	Storage	Firm	Storage	Firm	Storage		
Annual Throughput at Burnertip Per GR-93-172	885,229	583,548	1,468,777		1,468,777		0	1,468,777
Annual Throughput at Citygate	917,231	604,644	1,521,875		1,521,875		0	1,521,875
Annual Throughput at Havenpool	929,783	614,454	1,544,237		1,544,237		0	1,544,237
Annual Throughput at Wellhead	937,376	627,504	1,564,880		1,564,880		0	1,564,880

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

	<u>Nov-99</u>	<u>Dec-99</u>	<u>Jan-00</u>	<u>Feb-00</u>	<u>Mar-00</u>	<u>Totals</u>
SUMMARY OF COMMODITY COSTS						
Sales Requirements	75,094	89,993	120,342	84,169	84,955	454,553
PEPL Market Zone Fuel Loss	1.35%	1.35%	1.35%	1.35%	1.35%	
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	77,028	92,311	123,442	86,337	87,143	

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	

(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	77,028	92,311	123,442	86,337	87,143	466,261
Total Supply	77,028	92,311	123,442	86,337	87,143	466,261
Forecasted Price (NYMEX-PEPL Basis) \$	2.8350	\$ 3.0100	\$ 3.0300	\$ 2.8450	\$ 2.6750	
Total Cost	\$ 218,374	\$ 277,856	\$ 374,029	\$ 245,629	\$ 233,108	\$ 1,348,996
Storage Withdrawal	88,750	155,000	155,000	140,000	88,750	627,500
Storage WACOG	\$ 2.1558	\$ 2.1558	\$ 2.1558	\$ 2.1558	\$ 2.1558	
Total Cost	\$ 191,327	\$ 334,149	\$ 334,149	\$ 301,812	\$ 191,327	\$ 1,352,764
Forecasted Gas Commodity Cost	409,701	612,005	708,178	547,441	424,435	2,701,760
Forecasted Sales Gas Quantity	165,778	247,311	278,442	226,337	175,893	1,093,761

Gas Cost (Commodity) Dth \$2.4702

SUMMARY OF UPSTREAM COSTS

Panhandle Eastern Pipeline - Firm						
FT Commodity (Field Zone)	76,743	91,969	122,985	86,018	86,821	
FT Commodity (Market Zone)	76,122	91,225	121,989	85,321	86,118	
Total Units	152,865	183,194	244,974	171,339	172,939	925,311
Cost/Dth - Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	\$0.0103	\$0.0103	\$0.0103	\$0.0103	\$0.0103	
Total Panhandle Commodity Costs	\$2,281	\$2,733	\$3,655	\$2,556	\$2,580	\$ 13,804
Forecasted Northern Upstream Costs	2,281	2,733	3,655	2,556	2,580	13,804
Forecasted Firm Sales Quantity	165,778	247,311	278,442	226,337	175,893	1,093,761
<u>Upstream Cost/Dth</u>						\$0.0126

\$ 2.4828

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

Inside FERC Posted Price October 99	\$	2.43
PEPL Market Zone Fuel Loss		1.35%
PEPL Field Zone Fuel Loss		0.81%
Gathering Fuel Loss		<u>0.37%</u>
PEPL Index Adjusted for Fuel	\$	2.4926
PEPL Cost/Dth Field Zone		\$0.0195
PEPL Cost/Dth - Market Zone		<u>\$0.0103</u>
		\$2.5224
Total Gas Commodity Costs		\$2.5224

**Eastern System Annualized Gas Cost Calculation
To Reflect Current PEPL & Spot Market Rates**

	Annual/ Seasonal Volume	Monthly Capacity Reserved	No. of Mths Reserved	Tariff Rate	Annual Cost
FIRM					
<u>Panhandle Eastern Pipe Line</u>					
Winter (Nov-Mar)					
FT Reservation (Field Zone)		5,700	5	\$4.7300	\$134,805
FT Reservation (Market Zone)		5,700	5	\$5.9300	\$169,005
					<u>\$303,810</u>
Winter Sales Volume at Burnertip	462,120				
Winter Cost per MCF at Burnertip					\$0.6574
Summer (Apr-Oct) Volumetric Rate					
100% LF of Max Rate (Fld-4 Blks)					\$0.3505
Summer Cost per MCF at Burnertip					\$0.3505
<u>Missouri Pipeline Company</u>					
Rolla					
FT Reservation		2,695	12	\$4.3181	\$139,647
Salem					
FT Reservation		2,500	12	\$0.7500	\$22,500
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>\$937,002</u>
Spot Market Purchases	626,579			\$2.9187	\$1,828,796
Total Eastern System Costs					<u>\$2,765,798</u>
Sales Volume at Burnertip	624,486				
Cost per MCF at Burnertip					\$4.4289
Winter PGA					
Total Cost per Mcf at Burnertip					\$5.0863
Highest WACOG (Winter Period)		Nov 96 - Mar 97	Nov 97 - Mar 98	Nov 98 - Mar 99	Average WACOG
		\$3.0684	\$2.3285	\$2.0449	\$2.4806
Highest Avg WACOG-Winter Period (Avg of winter seasons with the highest of 3 averages)					\$2.7745
					October 1999 Gas Commodity Costs
					\$2.9187
INTERRUPTIBLE					
<u>Panhandle Eastern Pipe Line</u>					
IT (Field Zone)	\$0.1861		@ 150%		\$0.2792
IT (Market Zone)	\$0.2146		@ 150%		\$0.3219
<u>Missouri Pipeline Company</u>					
Commodity	\$0.3036				\$0.3036
<u>Missouri Gas Company</u>					
Commodity	\$1.3762				\$1.3762
Spot Market Price Per MCF	\$2.9187				\$2.9187
Cost per MCF at Burnertip					\$5.1996

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	\$4.73
Market Zone Access	\$3.30
Market Zone Mileage 301-400 Block	\$2.40
GRI Funding Unit	\$0.2300
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	\$0.1861
Market Zone Access	\$0.1035
Market Zone Mileage	\$0.0888
GRI Funding Unit	\$0.0075
ACA Unit Charge	\$0.0022
TOP Volumetric Surcharge	\$0.0000
Settlement Surcharges	\$0.0000
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	1.80%

PEPL EFT Commodity Rates

Market Zone Access	\$0.0006
Market Zone Mileage 301-400	\$0.0100
GRI Funding Unit	\$0.0075
ACA Unit Charge	\$0.0022
TOP	\$0.0000
Settlement Charges	\$0.0000

EFT Commodity Rates	\$0.0203
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Field Zone Commodity	\$0.0195
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Total EFT Commodity Rates	\$0.0398
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Note: From FERC Gas Tariff: PEPL Fifty-Third Revised Sheet No. 5 Effective 11/01/99 , Fifty-Fourth Revised Sheet No. 7 Effective 11/01/99, and Twenty-Third Revised Sheet No. 19 Effective 10/01/99.

Annual Throughput at Burnertip	624,486
Annual Throughput at Citygate	626,579
MOGAS & MPC	629,285
Annual Throughput at Wellhead	646,052

Seasonal Sales Volume @ Burnertip

Jan	122,816
Feb	112,928
Mar	82,744
Apr	49,959
May	27,581
Jun	18,735
Jul	14,571
Aug	14,051
Sep	15,612
Oct	21,857
Nov	50,479
Dec	93,153
TOTAL	624,486

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

	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Totals
SUMMARY OF COMMODITY COSTS						
Sales Requirements	29,600	57,846	82,741	47,389	62,107	279,683
MoGas/MoPipe Fuel Loss	0.43%	0.43%	0.43%	0.43%	0.43%	
PEPL Market Zone Fuel Loss	1.80%	1.80%	1.80%	1.80%	1.80%	
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	30,633	59,865	85,629	49,043	64,275	289,445
Total Supply	30,633	59,865	85,629	49,043	64,275	289,445
Forecasted Price (NYMEX-PEPL Basis)	\$ 2.8350	\$ 3.0100	\$ 3.0300	\$ 2.8450	\$ 2.6750	
Total Cost	\$ 86,845	\$ 180,194	\$ 259,456	\$ 139,527	\$ 171,936	\$ 837,958
Forecasted Gas Commodity Cost	\$ 86,845	\$ 180,194	\$ 259,456	\$ 139,527	\$ 171,936	\$ 837,958
Forecasted Sales Gas Quantity	30,633	59,865	85,629	49,043	64,275	289,445
Gas Cost (Commodity) Dth						\$2.8951
SUMMARY OF UPSTREAM COSTS						
Panhandle Eastern Pipeline - Firm						
FT Commodity (Field Zone)	30,520	59,644	85,313	48,862	64,037	
FT Commodity (Market Zone)	30,273	59,161	84,622	48,466	63,519	
Total Units	60,793	118,805	169,935	97,328	127,556	
Cost/Dth Field Zone	\$0.0195	\$0.0195	\$0.0195	\$0.0195	\$0.0195	
Cost/Dth - Market Zone	\$0.0203	\$0.0203	\$0.0203	\$0.0203	\$0.0203	
Total Panhandle Commodity Costs	\$1,210	\$2,364	\$3,381	\$1,937	\$2,538	\$11,430
Missouri Pipeline Company - Firm						
Rolla						
FT Commodity	20,571	40,202	57,504	32,935	43,164	
Salem						
FT Commodity	7,111	13,897	19,877	11,384	14,920	
FT Commodity	2,045	3,997	5,717	3,274	4,291	
Total Units	29,727	58,096	83,098	47,593	62,375	280,889
Cost/Dth - Rolla	\$0.1699	\$0.1699	\$0.1699	\$0.1699	\$0.1699	
Cost/Dth - Salem	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	
Cost/Dth - Owensville	\$0.0500	\$0.0500	\$0.0500	\$0.0500	\$0.0500	
Total MoPipe Commodity Costs	\$3,953	\$7,725	\$11,050	\$6,329	\$8,294	\$37,351
Missouri Gas Company - Firm						
Rolla						
FT Commodity	20,483	40,029	57,257	32,793	42,978	
Salem						
FT Commodity	7,080	13,837	19,792	11,336	14,856	
FT Commodity	2,037	3,980	5,692	3,260	4,273	
Total Units	29,600	57,846	82,741	47,389	62,107	279,682
Cost/Dth - Rolla	\$0.2500	\$0.2500	\$0.2500	\$0.2500	\$0.2500	
Cost/Dth - Salem	\$0.2200	\$0.2200	\$0.2200	\$0.2200	\$0.2200	
Cost/Dth - Owensville	\$0.0800	\$0.0800	\$0.0800	\$0.0800	\$0.0800	
Total MoGas Commodity Costs	\$6,841	\$13,370	\$19,124	\$10,953	\$14,355	\$64,643
Total MoPipe & MoGas Costs	\$10,794	\$21,095	\$30,174	\$17,282	\$22,649	\$101,994
Forecasted Eastern Upstream Costs	\$12,004	\$23,459	\$33,555	\$19,219	\$25,187	\$113,424
Forecasted Firm Sales Quantity	30,633	59,865	85,629	49,043	64,275	289,445
Upstream Cost/Dth						\$0.3919

Wellhead Cost of Gas \$3.2870

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

Inside FERC Posted Price October 99	\$ 2.43
MoGas/MoPipe Fuel Loss	0.43%
PEPL Market Zone Fuel Loss	1.80%
PEPL Field Zone Fuel Loss	0.81%
Gathering Fuel Loss	<u>0.37%</u>

PEPL Index Adjusted for Fuel	\$ 2.5148
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PEPL Cost/Dth Field Zone	\$0.0195
PEPL Cost/Dth - Market Zone	<u>\$0.0203</u>
Total PEPL Commodity Cost	<u>\$2.5546</u>

PEPL Cost	\$2.5546
MoPipe Cost/Dth - Rolla	\$0.1699
MoGas Cost/Dth - Rolla	\$0.2500
Rolla	\$2.9745

PEPL Cost	\$2.5546
MoPipe Cost/Dth - Salem	\$0.0500
MoGas Cost/Dth - Salem	\$0.2200
Total Salem	\$2.8246

PEPL Cost	\$2.5546
MoPipe Cost/Dth - Owensville	\$0.0500
MoGas Cost/Dth - Owensville	\$0.0800
Total Owensville	\$2.6846

		Percent Split	
Rolla	\$2.9745	69.20%	\$ 2.0584
Salem	\$2.8246	23.92%	\$ 0.6756
Owensville	\$2.6846	6.88%	\$ 0.1847

\$ 2.9187

Total Gas Commodity Costs

\$ 2.9187

MPS WACOG CAP

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
SOUTHERN SYSTEM (96/97):						
Purchase Volumes	151,254	77,778	338,776	76,230	89,039	733,077
Commodity Cost (Highest)	\$2.6660	\$3.6900	\$4.3175	\$2.8200	\$1.7249	
Total Commodity Costs	\$403,243	\$287,001	\$1,462,665	\$214,969	\$153,583	\$2,521,461
				Weighted Avg. Commodity Costs		\$3.4396
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
				Average of 3 Periods		\$2.7323
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$3.0860
October, 1999 Gas Commodity Cost						\$2.5168

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
NORTHERN SYSTEM (96/97):						
Purchase Volumes	9,000	8,575	21,800	101,472	2,500	143,347
Commodity Cost (Highest)	\$3.7708	\$3.6635	\$4.4584	\$2.7800	\$3.1581	
Total Commodity Costs	\$33,937	\$31,415	\$97,193	\$282,092	\$7,895	\$452,532
				Weighted Avg. Commodity Costs		\$3.1569
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
				Average of 3 Periods		\$2.5771
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$2.8670
October, 1999 Gas Commodity Cost						\$2.5224

	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	
EASTERN SYSTEM (96/97):						
Purchase Volumes	22,757	31,625	47,952	33,280	27,391	163,005
Commodity Cost (Highest)	\$2.5100	\$3.6635	\$3.9000	\$2.7800	\$1.7400	
Total Commodity Costs	\$57,120	\$115,858	\$187,013	\$92,518	\$47,660	\$500,169
				Weighted Avg. Commodity Costs		\$3.0684
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
				Average of 3 Periods		\$2.4806
Highest Avg WACOG-Winter Period (avg of winter seasons with the highest of 3 averages)						\$2.7745
October, 1999 Gas Commodity Cost						\$2.9187

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	CHARGES	OTHER	TOTAL	FIRM	INTERRUPT.	STORAGE	TOTAL	TOTAL
										PORTION	PORTION	MMBTU	STORAGE	MONTH
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1998	OCTOBER 1998	4,103	2.0098	8,246.10	0.00	0.00	8,246.10	8,246.10	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	SEPTEMBER 1998	OCTOBER 1998	91,858	1.5855	145,637.68	0.00	0.00	145,637.68	145,637.68	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0998-07921	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	222,971.16	0.00	222,971.16	222,971.16	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0998-07921	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	102,350.64	
WNG CAPACITY RELEASE	1-TNS-0998-07921	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	(4,544.88)	0.00	(4,544.88)	(4,544.88)	0.00	0	0.00	474,660.70
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1998	NOVEMBER 1998	21,624	1.9872	42,971.34	0.00	0.00	42,971.34	42,971.34	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	OCTOBER 1998	NOVEMBER 1998	159,522	1.8822	300,253.82	0.00	0.00	300,253.82	300,253.82	0.00	0	0.00	
BASELOAD POWER POOL GAS SYS SUPP	VARIOUS	OCTOBER 1998	NOVEMBER 1998	1,923	1.9774	3,802.62	0.00	0.00	3,802.62	3,802.62	0.00	0	0.00	
SWING IMBALANCE POOL GAS	VARIOUS	OCTOBER 1998	NOVEMBER 1998	13,529	2.1047	28,474.13	0.00	0.00	28,474.13	28,474.13	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1098-07921	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	223,653.65	0.00	223,653.65	223,653.65	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-1098-07921	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	98,538.84	
WNG CAPACITY RELEASE	1-TNS-1097-07921	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	(6,734.72)	0.00	(6,734.72)	(6,734.72)	0.00	0	0.00	690,959.84
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1998	DECEMBER 1998	68,670	2.1047	144,527.94	0.00	0.00	144,527.94	144,527.94	0.00	0	0.00	
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1998	DECEMBER 1998	263,848	2.3688	625,004.15	0.00	0.00	625,004.15	625,004.15	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	NOVEMBER 1998	DECEMBER 1998	405	1.9307	781.92	0.00	0.00	781.92	781.92	0.00	0	0.00	
FIXED SWING POOL GAS SYSTEM SUPPL	VARIOUS	NOVEMBER 1998	DECEMBER 1998	16,644	2.2900	38,114.76	0.00	0.00	38,114.76	38,114.76	0.00	0	0.00	
PPA CASE No. GR-98-192	1-TNS-1198-07921	95-96 ACA YEAR	DECEMBER 1998	0	0.0000	0.00	(190,000.00)	0.00	(190,000.00)	(190,000.00)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-STO-1198-07921	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	230,602.46	0.00	230,602.46	230,602.46	0.00	0	0.00	
WNG STORAGE TRANS.	1-TNS-1198-07921	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	101,961.83	
WNG CAPACITY RELEASE	1-TNS-1198-07921	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	(3,999.87)	0.00	(3,999.87)	(3,999.87)	0.00	0	0.00	946,993.19
FIXED SWING GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1998	JANUARY 1999	2,463	2.2900	5,640.27	0.00	0.00	5,640.27	5,640.27	0.00	0	0.00	
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1998	JANUARY 1999	270,720	2.3683	641,158.09	0.00	0.00	641,158.09	641,158.09	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	DECEMBER 1998	JANUARY 1999	326,420	2.0547	670,693.64	0.00	0.00	670,693.64	670,693.64	0.00	0	0.00	
BASELOAD POOL SALES FOR RESALE	VARIOUS	DECEMBER 1998	JANUARY 1999	(29,003)	1.2329	(35,757.57)	0.00	0.00	(35,757.57)	(35,757.57)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-1298-07921	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	237,937.20	0.00	237,937.20	237,937.20	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-1298-07921	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	87,933	213,888.23	
WNG STORAGE TRANS.	1-STO-1298-07921	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	101,961.83	
WNG CAPACITY RELEASE	1-TNS-1298-07921	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	(6,873.35)	0.00	(6,873.35)	(6,873.35)	0.00	0	0.00	1,828,648.34
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 1999	FEBRUARY 1999	44,013	1.9096	84,048.00	0.00	0.00	84,048.00	84,048.00	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 1999	FEBRUARY 1999	15,085	2.0547	30,995.08	0.00	0.00	30,995.08	30,995.08	0.00	0	0.00	
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 1999	FEBRUARY 1999	363,568	2.2638	823,027.06	0.00	0.00	823,027.06	823,027.06	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JANUARY 1999	FEBRUARY 1999	103,525	1.7742	183,673.90	0.00	0.00	183,673.90	183,673.90	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0198-07921	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	240,857.34	0.00	240,857.34	240,857.34	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0198-07921	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	298,134	736,856.78	
WNG STORAGE TRANS.	1-STO-0198-07921	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	102,041.89	
WNG CAPACITY RELEASE	1-TNS-0198-07921	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	(3,805.05)	0.00	(3,805.05)	(3,805.05)	0.00	0	0.00	2,197,694.99
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 1999	MARCH 1999	22,758	1.9096	43,459.08	0.00	0.00	43,459.08	43,459.08	0.00	0	0.00	
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	FEBRUARY 1999	MARCH 1999	253,428	2.3683	600,201.97	0.00	0.00	600,201.97	600,201.97	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0298-07921	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	235,852.69	0.00	235,852.69	235,852.69	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0298-07921	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	217,582	544,433.68	
WNG STORAGE TRANS.	1-STO-0298-07921	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0	105,876.55	
WNG CAPACITY RELEASE	1-TNS-0298-07921	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	(8,975.58)	0.00	(8,975.58)	(8,975.58)	0.00	0	0.00	1,520,848.39

**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 SVS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 1999	APRIL 1999	77,298	1.6666	128,828.10	0.00	128,828.10	128,828.10	0.00	0	0.00	
SWING IMBALANCE POOL GAS	VARIOUS	MARCH 1999	APRIL 1999	7,789	1.6492	12,845.82	0.00	12,845.82	12,845.82	0.00	0	0.00	
TERM POOL GAS SYSTEM SUPPLY	VARIOUS	MARCH 1999	APRIL 1999	285,324	2.3683	675,742.33	0.00	675,742.33	675,742.33	0.00	0	0.00	
BASELOAD POOL IMBALANCE GAS	VARIOUS	MARCH 1999	APRIL 1999	4,540	1.7250	7,831.63	0.00	7,831.63	7,831.63	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0399-07921	MARCH 1999	APRIL 1999	0	0.0000	0.00	237,848.50	237,848.50	237,848.50	0.00	0	0.00	
WNG ASSOC CO STORAGE	1-TNS-0399-07921	MARCH 1999	APRIL 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	142,291	362,429.41	
WNG STORAGE TRANS.	1-STO-0399-07921	MARCH 1999	APRIL 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	105,876.55	
WNG CAPACITY RELEASE	1-TNS-0399-07921	MARCH 1999	APRIL 1999	0	0.0000	0.00	(8,384.94)	(8,384.94)	(8,384.94)	0.00	0	0.00	1,322,817.40
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	APRIL 1999	MAY 1999	173,242	1.7285	298,096.87	0.00	298,096.87	298,096.87	0.00	0	0.00	
SWING POOL GAS SYSTEM SUPPLY	VARIOUS	APRIL 1999	MAY 1999	68,013	2.0176	137,223.16	0.00	137,223.16	137,223.16	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	APRIL 1999	MAY 1999	1,280	1.7927	2,312.57	0.00	2,312.57	2,312.57	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0499-07921	APRIL 1999	MAY 1999	0	0.0000	0.00	233,083.41	233,083.41	233,083.41	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0499-07921	APRIL 1999	MAY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	105,848.60	
WNG CAPACITY RELEASE	1-TNS-0499-07921	APRIL 1999	MAY 1999	0	0.0000	0.00	(13,754.97)	(13,754.97)	(13,754.97)	0.00	0	0.00	763,809.64
SWING MARKET POOL GAS SYS SUPPLY	VARIOUS	MAY 1999	JUNE 1999	13,846	2.3435	32,447.90	0.00	32,447.90	32,447.90	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	MAY 1999	JUNE 1999	109,917	2.2055	242,421.90	0.00	242,421.90	242,421.90	0.00	0	0.00	
SWING POOL GAS SYS SUPPLY PPA 408	VARIOUS	APRIL 1998	JUNE 1999	(1,728)	2.2873	(3,952.44)	0.00	(3,952.44)	(3,952.44)	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MAY 1999	JUNE 1999	(1,338)	0.1285	(171.96)	0.00	(171.96)	(171.96)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0599-07921	MAY 1999	JUNE 1999	0	0.0000	0.00	231,722.02	231,722.02	231,722.02	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0599-07921	MAY 1999	JUNE 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	106,801.55	
WNG STORAGE TRANS. PPA 408	1-TNS-0599-07921	APRIL 1998	JUNE 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	29.56	
WNG CAPACITY RELEASE	1-TNS-0599-07921	MAY 1999	JUNE 1999	0	0.0000	0.00	(9,678.69)	(9,678.69)	(9,678.69)	0.00	0	0.00	599,818.84
SWING POWER POOL GAS SYS SUPPLY	VARIOUS	JUNE 1999	JULY 1999	48,340	2.1850	105,622.90	0.00	105,622.90	105,622.90	0.00	0	0.00	
DAILY SWING POOL GAS SYS SUPPLY	VARIOUS	JUNE 1999	JULY 1999	28,472	2.1875	63,879.17	0.00	63,879.17	63,879.17	0.00	0	0.00	
SWING POOL GAS SYS SUPPLY PPA 1098	VARIOUS	OCTOBER 1998	JULY 1999	(388)	1.0654	(414.43)	0.00	(414.43)	(414.43)	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JUNE 1999	JULY 1999	4,102	2.0105	8,247.04	0.00	8,247.04	8,247.04	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0699-07921	JUNE 1999	JULY 1999	0	0.0000	0.00	229,926.09	229,926.09	229,926.09	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0699-07921	JUNE 1999	JULY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	105,546.28	
WNG CAPACITY RELEASE	1-TNS-0699-07921	JUNE 1999	JULY 1999	0	0.0000	0.00	(14,620.44)	(14,620.44)	(14,620.44)	0.00	0	0.00	498,596.68
SWING MARKET POOL GAS SYS SUPPLY	VARIOUS	JULY 1999	AUGUST 1999	429	2.3350	1,001.72	0.00	1,001.72	1,001.72	0.00	0	0.00	
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	JULY 1999	AUGUST 1999	60,733	2.1501	130,580.70	0.00	130,580.70	130,580.70	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	JULY 1999	AUGUST 1999	(388)	1.0654	(414.43)	0.00	(414.43)	(414.43)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0799-07921	JULY 1999	AUGUST 1999	0	0.0000	0.00	227,815.41	227,815.41	227,815.41	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0799-07921	JULY 1999	AUGUST 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	106,801.55	
WNG CAPACITY RELEASE	1-TNS-0799-07921	JULY 1999	AUGUST 1999	0	0.0000	0.00	(16,692.52)	(16,692.52)	(16,692.52)	0.00	0	0.00	449,092.43
BASELOAD POOL GAS SYSTEM SUPPLY	VARIOUS	AUGUST 1999	SEPTEMBER 1999	70,658	2.4694	174,480.89	0.00	174,480.89	174,480.89	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	AUGUST 1999	SEPTEMBER 1999	(4,171)	1.8508	(7,719.85)	0.00	(7,719.85)	(7,719.85)	0.00	0	0.00	
WNG SYSTEM SUPPLY TRANS.	1-TNS-0899-07921	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	224,722.00	224,722.00	224,722.00	0.00	0	0.00	
WNG STORAGE TRANS.	1-STO-0899-07921	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	103,481.47	
WNG CAPACITY RELEASE	1-TNS-0899-07921	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	(21,003.06)	(21,003.06)	(21,003.06)	0.00	0	0.00	473,961.45
SYSTEM SUPPLY PPA 1198-399	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)
				2,962,470		6,251,465.32	2,467,722.86	8,719,188.18	8,719,188.18	-	746,940	3,104,727.23	11,823,915.41

**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	SYS SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
HELIMERICH	S-4349	SEPTEMBER 1998	OCTOBER 1998	12,430	1.5600	19,390.80	0.00	19,390.80	19,390.80	0.00	0	0.00	0.00
AQUILA PPA 5/98	35470 E08 R1-1	MAY 1998	OCTOBER 1998	0	#DIV/0!	1,190.88	0.00	1,190.88	1,190.88	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	109,374.75	109,374.75	109,374.75	0.00	0	0.00	0.00
PEPL SYS SUPPLY TRANS. PPA 8/98	9809000226	AUGUST 1998	OCTOBER 1998	0	0.0000	0.00	27.75	27.75	27.75	0.00	0	0.00	0.00
PEPL SYS SUPPLY TRANS. PPA 7/98	9807000224	JULY 1998	OCTOBER 1998	0	0.0000	0.00	2,785.98	2,785.98	2,785.98	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-IOI	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	6,279	14,381.42	14,381.42
PEPL STORAGE TRANS.	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	42,084.47
PEPL IN/OUT STORAGE	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,727.25	6,727.25
PEPL CAPACITY RELEASE PPA 8/98	9809000226	AUGUST 1998	OCTOBER 1998	0	0.0000	0.00	(1.38)	0.00	(1.38)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 7/98	9807000224	JULY 1998	OCTOBER 1998	0	0.0000	0.00	(529.82)	(529.82)	(529.82)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	(236.20)	(236.20)	(236.20)	0.00	0	0.00	195,195.90
HELIMERICH	S-4408	OCTOBER 1998	NOVEMBER 1998	56,668	1.9000	107,668.20	0.00	107,668.20	107,668.20	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	9810000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	113,357.47	113,357.47	113,357.47	0.00	0	0.00	0.00
PEPL STORAGE TRANS.	9810000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	42,084.47
PEPL IN/OUT STORAGE	9810000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,706.53	6,706.53
PEPL CAPACITY RELEASE PPA 8/98	9809000226	AUGUST 1998	NOVEMBER 1998	0	0.0000	0.00	2.88	2.88	2.88	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	9810000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	(3,933.29)	(3,933.29)	(3,933.29)	0.00	0	0.00	265,887.26
WESTERN GAS RESOURCES	129508	NOVEMBER 1998	DECEMBER 1998	82,571	2.0150	126,080.57	0.00	126,080.57	126,080.57	0.00	0	0.00	0.00
HELIMERICH	S-4513	NOVEMBER 1998	DECEMBER 1998	101	2.2000	222.20	0.00	222.20	222.20	0.00	0	0.00	0.00
KN ENERGY	073517192	NOVEMBER 1998	DECEMBER 1998	2,522	1.8900	4,766.58	0.00	4,766.58	4,766.58	0.00	0	0.00	0.00
CROSSTIMBERS	02368	NOVEMBER 1998	DECEMBER 1998	2,984	2.0700	6,135.48	0.00	6,135.48	6,135.48	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	9811000233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	143,617.21	143,617.21	143,617.21	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-IOI	9811000233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	26,016	58,025.58	58,025.58
PEPL STORAGE TRANS.	9811000233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	42,084.47
PEPL IN/OUT STORAGE	9811000233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	6,792.73	6,792.73
PEPL CAPACITY RELEASE PPA 10/98	9810000225	OCTOBER 1998	DECEMBER 1998	0	0.0000	0.00	2,727.64	2,727.64	2,727.64	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	9811000233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	(2,789.90)	(2,789.90)	(2,789.90)	0.00	0	0.00	387,662.56
WESTERN GAS RESOURCES	129848	DECEMBER 1998	JANUARY 1999	84,593	2.0853	176,399.08	0.00	176,399.08	176,399.08	0.00	0	0.00	0.00
OGE	980088	DECEMBER 1998	JANUARY 1999	34,541	2.0650	71,327.17	0.00	71,327.17	71,327.17	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	151,484.26	151,484.26	151,484.26	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-IOI	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	10,970	24,468.72	24,468.72
PEPL STORAGE TRANS.	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,365.56	42,365.56
PEPL IN/OUT STORAGE	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	6,742.88	6,742.88	6,742.88	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 11/98	9811000233	NOVEMBER 1998	JANUARY 1999	0	0.0000	0.00	30.20	30.20	30.20	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	(558.61)	(558.61)	(558.61)	0.00	0	0.00	472,259.25
WESTERN	130497	JANUARY 1999	FEBRUARY 1999	62,000	2.2975	142,445.00	0.00	142,445.00	142,445.00	0.00	0	0.00	0.00
TENASKA	199901-0280 & 0259	JANUARY 1999	FEBRUARY 1999	99,702	1.7800	177,469.56	0.00	177,469.56	177,469.56	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	153,848.88	153,848.88	153,848.88	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-IOI	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	45,079	100,515.63	100,515.63
PEPL ASSOC CO STORAGE-WS	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	79,912	167,447.71	167,447.71
PEPL ASSOC CO STORAGE-WS PPA 12/98	9801000225	DECEMBER 1998	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	84,845	175,996.85	175,996.85
PEPL STORAGE TRANS.	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,349.22	42,349.22
PEPL IN/OUT STORAGE	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	6,855.89	6,855.89	6,855.89	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	9801000225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	(483.25)	(483.25)	(483.25)	0.00	0	0.00	966,445.49
WESTERN	131145	FEBRUARY 1999	MARCH 1999	85,827	2.1142	181,453.78	0.00	181,453.78	181,453.78	0.00	0	0.00	0.00
DUKE PPA 11/97	SR97110668	NOVEMBER 1997	MARCH 1999	(42,762)	3.4250	(146,459.85)	0.00	(146,459.85)	(146,459.85)	0.00	0	0.00	0.00
SOUTHERN CO PPA 12/97	199712-(SCGM)-0507	DECEMBER 1997	MARCH 1999	1,550	2.3300	3,611.50	0.00	3,611.50	3,611.50	0.00	0	0.00	0.00
AQUILA PPA 11/97	33882 K97	NOVEMBER 1997	MARCH 1999	(2,156)	3.1300	(6,748.28)	0.00	(6,748.28)	(6,748.28)	0.00	0	0.00	0.00
PPA CASE NO. GR-97-288	980200219	MARCH 1997	MARCH 1999	0	0.0000	0.00	(67,672.64)	(67,672.64)	(67,672.64)	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	135,355.66	135,355.66	135,355.66	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS. PPA 1/99	9801000225	JANUARY 1999	MARCH 1999	0	0.0000	0.00	0.72	0.72	0.72	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-IOI	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	26,362	63,237.28	63,237.28
PEPL ASSOC CO STORAGE-WS	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	73,313	153,624.18	153,624.18
PEPL STORAGE TRANS.	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,327.36	42,327.36
PEPL IN/OUT STORAGE	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	6,800.50	6,800.50	6,800.50	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 1/99	9801000225	JANUARY 1999	MARCH 1999	0	0.0000	0.00	229.63	229.63	229.63	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	980200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	(379.19)	(379.19)	(379.19)	0.00	0	0.00	365,380.66

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
WESTERN	131504	MARCH 1999	APRIL 1999	31	1.5900	48.98	0.00	48.98	48.98	0.00	0	0.00	0.00
PPA CASE NO. GR-97-298		MARCH 1999	APRIL 1999	0	0.0000	0.00	3,600.00	3,600.00	3,600.00	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	147,355.89	147,355.89	147,355.89	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS. PPA 11/87	BB9711000245	NOVEMBER 1997	APRIL 1999	0	0.0000	0.00	(14,400.00)	(14,400.00)	(14,400.00)	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS. PPA 9/88	9909000221	SEPTEMBER 1998	APRIL 1999	0	0.0000	0.00	13,500.00	13,500.00	13,500.00	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-LOS	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	17.631	39,310.38	0.00
PEPL ASSOC CO STORAGE-WS	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	146,143	308,238.07	0.00
PEPL STORAGE TRANS.	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,568.65	0.00
PEPL IN/OUT STORAGE	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	6,764.94	6,764.94	6,764.94	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 11/87	BB9711000245	NOVEMBER 1997	APRIL 1999	0	0.0000	0.00	(43.53)	(43.53)	(43.53)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 12/87	971200236	DECEMBER 1997	APRIL 1999	0	0.0000	0.00	82.42	82.42	82.42	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 2/88	980200224	FEBRUARY 1998	APRIL 1999	0	0.0000	0.00	(338.13)	(338.13)	(338.13)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 3/98	9803000224	MARCH 1998	APRIL 1999	0	0.0000	0.00	(269.59)	(269.59)	(269.59)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 4/98	980400225	APRIL 1998	APRIL 1999	0	0.0000	0.00	(126.64)	(126.64)	(126.64)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 5/98	980500220	MAY 1998	APRIL 1999	0	0.0000	0.00	(19.50)	(19.50)	(19.50)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 6/98	980600217	JUNE 1998	APRIL 1999	0	0.0000	0.00	(11.69)	(11.69)	(11.69)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 7/88	980700224	JULY 1988	APRIL 1999	0	0.0000	0.00	(32.07)	(32.07)	(32.07)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 9/88	9809000221	SEPTEMBER 1988	APRIL 1999	0	0.0000	0.00	(6.69)	(6.69)	(6.69)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	9903000224	MARCH 1999	APRIL 1999	0	0.0000	0.00	(807.70)	(807.70)	(807.70)	0.00	0	0.00	543,411.79
CIBOLA	25971	APRIL 1999	MAY 1999	33,431	1.7500	58,504.25	0.00	58,504.25	58,504.25	0.00	0	0.00	0.00
IMBALANCE GAS	VARIOUS	APRIL 1999	MAY 1999	12,642	1.8342	23,188.34	0.00	23,188.34	23,188.34	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	110,907.31	110,907.31	110,907.31	0.00	0	0.00	0.00
PEPL SYS SUPPLY TRANS. PPA 10/98	981000225	OCTOBER 1998	MAY 1999	0	0.0000	0.00	2.96	2.96	2.96	0.00	0	0.00	0.00
PEPL SYS SUPPLY TRANS. PPA 12/87	971200236	DECEMBER 1987	MAY 1999	0	0.0000	0.00	173.86	173.86	173.86	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-LOS	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	20.653	46,048.29	0.00
PEPL STORAGE TRANS.	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	0.00
PEPL IN/OUT STORAGE	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	6,774.96	6,774.96	6,774.96	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 12/87	971200236	DECEMBER 1987	MAY 1999	0	0.0000	0.00	(82.42)	(82.42)	(82.42)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	(1,230.57)	(1,230.57)	(1,230.57)	0.00	0	0.00	286,371.45
WESTERN GAS RESOURCES	132512	MAY 1999	JUNE 1999	31,797	2.2200	70,589.34	0.00	70,589.34	70,589.34	0.00	0	0.00	0.00
SONAT	28648.00	MAY 1999	JUNE 1999	15,225	1.7625	26,834.06	0.00	26,834.06	26,834.06	0.00	0	0.00	0.00
IMBALANCE GAS	VARIOUS	MAY 1999	JUNE 1999	7,324	2.9265	21,433.82	0.00	21,433.82	21,433.82	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	113,837.87	113,837.87	113,837.87	0.00	0	0.00	0.00
PEPL STORAGE TRANS.	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	0.00
PEPL IN/OUT STORAGE	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	6,706.53	6,706.53	6,706.53	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	(2,972.91)	(2,972.91)	(2,972.91)	0.00	0	0.00	278,513
AQUILA	38978 F99	JUNE 1999	JULY 1999	19,861	2.1200	42,105.32	0.00	42,105.32	42,105.32	0.00	0	0.00	0.00
IMBALANCE GAS	VARIOUS	JUNE 1999	JULY 1999	802	(0.9652)	(581.06)	0.00	(581.06)	(581.06)	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	108,018.99	108,018.99	108,018.99	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-LOS	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	4,004	8,867.32	0.00
PEPL STORAGE TRANS.	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	0.00
PEPL IN/OUT STORAGE	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	6,719.80	6,719.80	6,719.80	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	(1,187.63)	(1,187.63)	(1,187.63)	0.00	0	0.00	206,027.21
CORAL	CER-1-199907-1146	JULY 1999	AUGUST 1999	9,626	2.1700	20,888.42	0.00	20,888.42	20,888.42	0.00	0	0.00	0.00
IMBALANCE GAS	VARIOUS	JULY 1999	AUGUST 1999	1,043	3.0892	3,222.06	0.00	3,222.06	3,222.06	0.00	0	0.00	0.00
PEPL SYSTEM SUPPLY TRANS.	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	112,115.66	112,115.66	112,115.66	0.00	0	0.00	0.00
PEPL SYS SUPPLY TRANS. PPA 6/98	990600208	JUNE 1999	AUGUST 1999	0	0.0000	0.00	0.43	0.43	0.43	0.00	0	0.00	0.00
PEPL ASSOC CO STORAGE-LOS	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	14,049	31,112.81	0.00
PEPL STORAGE TRANS.	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	0.00
PEPL IN/OUT STORAGE	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	6,753.08	6,753.08	6,753.08	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	(399.45)	(399.45)	(399.45)	0.00	0	0.00	0.00
PEPL CAPACITY RELEASE PPA 6/99	990600208	JUNE 1999	AUGUST 1999	0	0.0000	0.00	2,285.32	2,285.32	2,285.32	0.00	0	0.00	218,062.80

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
CORAL	CER-I-199808-0443	AUGUST 1999	SEPTEMBER 1999	16,856	2.5100	42,308.56	0.00	42,308.56	42,308.56	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	AUGUST 1999	SEPTEMBER 1999	(7)	0.0000	6,856.55	0.00	6,856.55	6,856.55	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	111,698.47	111,698.47	111,698.47	0.00	0	0.00	
PEPL ASSOC CO STORAGE-IO5	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	6,583	14,600.49	
PEPL STORAGE TRANS.	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	42,084.47	
PEPL IN/OUT STORAGE	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	6,728.34	6,728.34	6,728.34	0.00	0	0.00	
PEPL CAPACITY RELEASE	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	(368.91)	(368.91)	(368.91)	0.00	0	0.00	223,907.97
				608,982		1,180,352.32	1,498,387.42	2,678,739.74	2,678,739.74	0.00	563,839	1,730,385.79	4,409,125.63

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
REVERSE PRIOR YR'S CREDIT													
PEPL SYS SUPP TRANS PPA 1995-1998	VARIOUS	1995-1998	OCTOBER 1998	0	0.0000	0.00	351,114.88	351,114.88	351,114.88	0.00	0	0.00	358,126.99
MOPIPE SYS SUPP TRANS PPA 8/98	NUT10898	AUGUST 1998	OCTOBER 1998	0	0.0000	0.00	7,012.11	7,012.11	7,012.11	0.00	0	0.00	
HELMEIRICH PPA 8/98	S-3948	AUGUST 1998	OCTOBER 1998	0	#DIV/0!	28.33	0.00	29.33	29.33	0.00	0	0.00	
HELMEIRICH PPA 2/98	S-3948	FEBRUARY 1998	OCTOBER 1998	0	#DIV/0!	(538.65)	0.00	(538.65)	(538.65)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	4,544.15	4,544.15	4,544.15	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 7/98	9809000221	JULY 1998	OCTOBER 1998	0	0.0000	0.00	(56,705.47)	(56,705.47)	(56,705.47)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 6/98	9809000221	JUNE 1998	OCTOBER 1998	0	0.0000	0.00	(61,345.83)	(61,345.83)	(61,345.83)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 5/98	9809000221	MAY 1998	OCTOBER 1998	0	0.0000	0.00	(50,929.75)	(50,929.75)	(50,929.75)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 4/98	9809000221	APRIL 1998	OCTOBER 1998	0	0.0000	0.00	(45,512.00)	(45,512.00)	(45,512.00)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 10/97	9809000221	SEPTEMBER 1997	OCTOBER 1998	0	0.0000	0.00	(6,364.18)	(6,364.18)	(6,364.18)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 9/97	9809000221	SEPTEMBER 1997	OCTOBER 1998	0	0.0000	0.00	(13,564.20)	(13,564.20)	(13,564.20)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 8/97	9809000221	AUGUST 1997	OCTOBER 1998	0	0.0000	0.00	(15,740.93)	(15,740.93)	(15,740.93)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 7/97	9809000221	JULY 1997	OCTOBER 1998	0	0.0000	0.00	(15,389.12)	(15,389.12)	(15,389.12)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 6/97	9809000221	JUNE 1997	OCTOBER 1998	0	0.0000	0.00	(13,479.23)	(13,479.23)	(13,479.23)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 5/97	9809000221	MAY 1997	OCTOBER 1998	0	0.0000	0.00	(8,155.45)	(8,155.45)	(8,155.45)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 4/97	9809000221	APRIL 1997	OCTOBER 1998	0	0.0000	0.00	(11,063.61)	(11,063.61)	(11,063.61)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 10/96	9809000221	OCTOBER 1996	OCTOBER 1998	0	0.0000	0.00	(1,311.62)	(1,311.62)	(1,311.62)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 9/96	9809000221	SEPTEMBER 1996	OCTOBER 1998	0	0.0000	0.00	(880.98)	(880.98)	(880.98)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 8/96	9809000221	AUGUST 1996	OCTOBER 1998	0	0.0000	0.00	(280.96)	(280.96)	(280.96)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 7/96	9809000221	JULY 1996	OCTOBER 1998	0	0.0000	0.00	(961.23)	(961.23)	(961.23)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 6/96	9809000221	JUNE 1996	OCTOBER 1998	0	0.0000	0.00	(22.38)	(22.38)	(22.38)	0.00	0	0.00	
PEPL SYS SUPPLY TRANS. PPA 5/96	9809000221	MAY 1996	OCTOBER 1998	0	0.0000	0.00	(42,311.28)	(42,311.28)	(42,311.28)	0.00	0	0.00	
PEPL SYS SUPP TRANS. PPA 4/95-9/95	9809000221	APR-SEP 1995	OCTOBER 1998	0	0.0000	0.00	42,100.75	42,100.75	42,100.75	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT0998	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	12,343.21	12,343.21	12,343.21	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT10998	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	(7,012.11)	(7,012.11)	(7,012.11)	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY PPA 8/98	NUT10998	AUGUST 1998	OCTOBER 1998	0	0.0000	0.00	7,619.20	7,619.20	7,619.20	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWens0998	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	487.00	487.00	487.00	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1098	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00	(671.88)	(671.88)	(671.88)	0.00	0	0.00	(286,535.83)
PEPL CAPACITY RELEASE	9809000221	SEPTEMBER 1998	OCTOBER 1998	0	0.0000	0.00				0.00	0	0.00	
EL PASO	18991	OCTOBER 1998	NOVEMBER 1998	4,148	1.9000	7,881.20	0.00	7,881.20	7,881.20	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	981000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	22,728.80	22,728.80	22,728.80	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1098	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	42,769.45	42,769.45	42,769.45	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NUT11098	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	12,838.96	12,838.96	12,838.96	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWens1098	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	16,463.12	16,463.12	16,463.12	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1098	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	816.95	816.95	816.95	0.00	0	0.00	
PEPL CAPACITY RELEASE	981000225	OCTOBER 1998	NOVEMBER 1998	0	0.0000	0.00	(276.98)	(276.98)	(276.98)	0.00	0	0.00	103,221.11
WESTERN GAS RESOURCES	129509	NOVEMBER 1998	DECEMBER 1998	29,600	2.0150	59,644.00	0.00	59,644.00	59,644.00	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	981100233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	62,148.93	62,148.93	62,148.93	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1198	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	49,665.84	49,665.84	49,665.84	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11198	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	5,268.08	5,268.08	5,268.08	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWens1198	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	12,190.72	12,190.72	12,190.72	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1198	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	869.20	869.20	869.20	0.00	0	0.00	
PEPL CAPACITY RELEASE PPA 10/98	981000225	OCTOBER 1998	DECEMBER 1998	0	0.0000	0.00	(2,815.11)	(2,815.11)	(2,815.11)	0.00	0	0.00	
PEPL CAPACITY RELEASE	981100233	NOVEMBER 1998	DECEMBER 1998	0	0.0000	0.00	(84.00)	(84.00)	(84.00)	0.00	0	0.00	186,887.67
WESTERN GAS RESOURCES	129848	DECEMBER 1998	JANUARY 1999	13,875	2.2141	30,720.00	0.00	30,720.00	30,720.00	0.00	0	0.00	
OGI	980088	DECEMBER 1998	JANUARY 1999	18,630	2.0650	38,470.95	0.00	38,470.95	38,470.95	0.00	0	0.00	
AQUILA PPA 10/97	33515 J97	OCTOBER 1997	JANUARY 1999	2,553	2.9800	7,607.94	0.00	7,607.94	7,607.94	0.00	0	0.00	
AQUILA PPA 10/97	980088	OCTOBER 1997	JANUARY 1999	(2,553)	3.0100	(7,684.53)	0.00	(7,684.53)	(7,684.53)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	63,231.07	63,231.07	63,231.07	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT1298	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	54,595.36	54,595.36	54,595.36	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11298	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	19,424.03	19,424.03	19,424.03	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWens1298	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	12,433.68	12,433.68	12,433.68	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NOwens1298	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	1,021.05	1,021.05	1,021.05	0.00	0	0.00	
MOPIPE SYSTEM SUPPLY TRANS.	NUT11198	NOVEMBER 1998	JANUARY 1999	0	0.0000	0.00	10,320.26	10,320.26	10,320.26	0.00	0	0.00	
PEPL CAPACITY RELEASE	981200232	DECEMBER 1998	JANUARY 1999	0	0.0000	0.00	(872.75)	(872.75)	(872.75)	0.00	0	0.00	229,267.06

**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	SYS. SUPPLY	FIRM PORTION	INTERRUPT. PORTION	STORAGE MMBTU	TOTAL STORAGE	TOTAL MONTH
WESTERN	130497	JANUARY 1999	FEBRUARY 1999	31,000	2.2975	71,222.50	0.00	71,222.50	71,222.50	0.00	0	0.00	
TENASKA	199901-0260 & 0269	JANUARY 1999	FEBRUARY 1999	51,741	1.7800	92,098.98	0.00	92,098.98	92,098.98	0.00	0	0.00	
AQUILA PPA 12/98	37282 L98	DECEMBER 1998	FEBRUARY 1999	25,341	2.0300	51,442.23	0.00	51,442.23	51,442.23	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990100225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	63,446.81	63,446.81	63,446.81	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGU010199	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	58,934.28	58,934.28	58,934.28	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NU010199	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	22,580.07	22,580.07	22,580.07	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWENS0199	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	12,557.36	12,557.36	12,557.36	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0199	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	1,098.35	1,098.35	1,098.35	0.00	0	0.00	
PEPL CAPACITY RELEASE	990100225	JANUARY 1999	FEBRUARY 1999	0	0.0000	0.00	(1,008.40)	(1,008.40)	(1,008.40)	0.00	0	0.00	370,374.18
WESTERN	131145	FEBRUARY 1999	MARCH 1999	47,389	2.0817	98,648.53	0.00	98,648.53	98,648.53	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	62,086.10	62,086.10	62,086.10	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGU02099	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	53,794.44	53,794.44	53,794.44	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NU02099	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	18,945.46	18,945.46	18,945.46	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWENS0299	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	12,333.20	12,333.20	12,333.20	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0299	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	958.25	958.25	958.25	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGU010199	JANUARY 1999	MARCH 1999	0	0.0000	0.00	701.96	701.96	701.96	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGU010199	JANUARY 1999	MARCH 1999	0	0.0000	0.00	(63.41)	(63.41)	(63.41)	0.00	0	0.00	
PEPL CAPACITY RELEASE	990200219	FEBRUARY 1999	MARCH 1999	0	0.0000	0.00	(551.45)	(551.45)	(551.45)	0.00	0	0.00	246,853.08
WESTERN	131504	MARCH 1999	APRIL 1999	2,232	1.5800	3,526.56	0.00	3,526.56	3,526.56	0.00	0	0.00	
SONAT	28058.00	MARCH 1999	APRIL 1999	29,844	1.6608	49,557.61	0.00	49,557.61	49,557.61	0.00	0	0.00	
AQUILA	38158 C99	MARCH 1999	APRIL 1999	30,031	1.6775	50,375.65	0.00	50,375.65	50,375.65	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990300224	MARCH 1999	APRIL 1999	0	0.0000	0.00	62,850.54	62,850.54	62,850.54	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGU03099	MARCH 1999	APRIL 1999	0	0.0000	0.00	54,208.48	54,208.48	54,208.48	0.00	0	0.00	
MOGAS SYS SUPPLY TRANS. PPA 12/97	NGU01297	DECEMBER 1997	APRIL 1999	0	0.0000	0.00	(6,190.80)	(6,190.80)	(6,190.80)	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NU010399	MARCH 1999	APRIL 1999	0	0.0000	0.00	19,257.87	19,257.87	19,257.87	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWENS0399	MARCH 1999	APRIL 1999	0	0.0000	0.00	12,468.40	12,468.40	12,468.40	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0399	MARCH 1999	APRIL 1999	0	0.0000	0.00	1,042.75	1,042.75	1,042.75	0.00	0	0.00	
PEPL CAPACITY RELEASE	990300224	MARCH 1999	APRIL 1999	0	0.0000	0.00	(1,415.24)	(1,415.24)	(1,415.24)	0.00	0	0.00	245,481.82
ANADARKO	9905062-1	APRIL 1999	MAY 1999	719	2.0700	1,488.33	0.00	1,488.33	1,488.33	0.00	0	0.00	
CIBOLA	25871	APRIL 1999	MAY 1999	22,774	1.7500	39,854.50	0.00	39,854.50	39,854.50	0.00	0	0.00	
AQUILA	38445 D99	APRIL 1999	MAY 1999	2,993	2.0650	6,180.55	0.00	6,180.55	6,180.55	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	APRIL 1999	MAY 1999	(5,398)	2.3745	(12,817.64)	0.00	(12,817.64)	(12,817.64)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGU04099	APRIL 1999	MAY 1999	0	0.0000	0.00	49,329.64	49,329.64	49,329.64	0.00	0	0.00	
MOGAS SYS SUPPLY TRANS. PPA 1/99	NGU010199	JANUARY 1999	MAY 1999	0	0.0000	0.00	738.24	738.24	738.24	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NU010499	APRIL 1999	MAY 1999	0	0.0000	0.00	15,480.10	15,480.10	15,480.10	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWENS0499	APRIL 1999	MAY 1999	0	0.0000	0.00	12,112.40	12,112.40	12,112.40	0.00	0	0.00	
MOGAS SYS SUPPLY TRANS. PPA 3/99	NGOWENS0399	MARCH 1999	MAY 1999	0	0.0000	0.00	(92.88)	(92.88)	(92.88)	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0499	APRIL 1999	MAY 1999	0	0.0000	0.00	820.25	820.25	820.25	0.00	0	0.00	
MOPIE SYS SUPPLY TRANS. PPA 3/99	NGOWENS0399	MARCH 1999	MAY 1999	0	0.0000	0.00	(58.05)	(58.05)	(58.05)	0.00	0	0.00	
PEPL CAPACITY RELEASE	990400228	APRIL 1999	MAY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	113,035.44
WESTERN GAS RESOURCES	132512	MAY 1999	JUNE 1999	11,494	2.2200	25,516.68	0.00	25,516.68	25,516.68	0.00	0	0.00	
AQUILA 1/99 PPA (12/98 inv. bkd 1/99)	37282 L98	JANUARY 1999	JUNE 1999	0	#DIV/0!	760.23	0.00	760.23	760.23	0.00	0	0.00	
IMBALANCE GAS	VARIOUS	MAY 1999	JUNE 1999	(1,682)	6.7710	(11,388.90)	0.00	(11,388.90)	(11,388.90)	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	1,173.17	1,173.17	1,173.17	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS. PPA 4/99	NGU05099	APRIL 1999	JUNE 1999	0	0.0000	0.00	10,065.26	10,065.26	10,065.26	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NU010599	MAY 1999	JUNE 1999	0	0.0000	0.00	47,507.16	47,507.16	47,507.16	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGOWENS0599	MAY 1999	JUNE 1999	0	0.0000	0.00	14,063.78	14,063.78	14,063.78	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0599	MAY 1999	JUNE 1999	0	0.0000	0.00	12,062.48	12,062.48	12,062.48	0.00	0	0.00	
MOPIE SYSTEM SUPPLY TRANS.	NGOWENS0599	MAY 1999	JUNE 1999	0	0.0000	0.00	789.05	789.05	789.05	0.00	0	0.00	
PEPL CAPACITY RELEASE	990500210	MAY 1999	JUNE 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	100,548.91

**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													
PEPL SYSTEM SUPPLY TRANS.	VARIOUS	JUNE 1999	JULY 1999	6,580	2.3985	15,781.90	0.00	15,781.90	15,781.90	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGUT0699	JUNE 1999	JULY 1999	0	0.0000	0.00	47,037.36	47,037.36	47,037.36	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT0699	JUNE 1999	JULY 1999	0	0.0000	0.00	13,692.99	13,692.99	13,692.99	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0699	JUNE 1999	JULY 1999	0	0.0000	0.00	12,041.84	12,041.84	12,041.84	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0699	JUNE 1999	JULY 1999	0	0.0000	0.00	776.15	776.15	776.15	0.00	0	0.00	
PEPL CAPACITY RELEASE	990600208	JUNE 1999	JULY 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	89,330.24
IMBALANCE GAS													
PEPL SYSTEM SUPPLY TRANS.	VARIOUS	JULY 1999	AUGUST 1999	6,202	2.0753	12,871.19	0.00	12,871.19	12,871.19	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGUT0799	JULY 1999	AUGUST 1999	0	0.0000	0.00	46,990.60	46,990.60	46,990.60	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT0799	JULY 1999	AUGUST 1999	0	0.0000	0.00	13,667.19	13,667.19	13,667.19	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0799	JULY 1999	AUGUST 1999	0	0.0000	0.00	12,038.88	12,038.88	12,038.88	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0799	JULY 1999	AUGUST 1999	0	0.0000	0.00	774.30	774.30	774.30	0.00	0	0.00	
PEPL CAPACITY RELEASE	990700204	JULY 1999	AUGUST 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	86,341.00
AQUILA													
IMBALANCE GAS	39484 1999	AUGUST 1999	SEPTEMBER 1999	9,920	2.5100	24,899.20	0.00	24,899.20	24,899.20	0.00	0	0.00	
PEPL SYSTEM SUPPLY TRANS.	VARIOUS	AUGUST 1999	SEPTEMBER 1999	(5,542)	2.8499	(15,794.36)	0.00	(15,794.36)	(15,794.36)	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	701.87	701.87	701.87	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGUT0899	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	47,032.76	47,032.76	47,032.76	0.00	0	0.00	
MOGAS SYSTEM SUPPLY TRANS.	NGUT0899	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	13,700.25	13,700.25	13,700.25	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0899	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	12,045.52	12,045.52	12,045.52	0.00	0	0.00	
MOIPE SYSTEM SUPPLY TRANS.	NGOWens0899	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	778.45	778.45	778.45	0.00	0	0.00	
PEPL CAPACITY RELEASE	990800203	AUGUST 1999	SEPTEMBER 1999	0	0.0000	0.00	0.00	0.00	0.00	0.00	0	0.00	83,363.69
				331,891		640,353.98	1,286,942.93	1,927,296.91	1,927,296.91	0.00	0.00	0.00	1,927,296.91

MISSOURI PUBLIC SERVICE
SCHEDULE 4 - CALCULATION OF
NEW RECOVERY BALANCE
1998-1999 ACA YEAR

Line		SOUTHERN SYSTEM		NORTHERN SYSTEM		EASTERN SYSTEM		TOTAL	Line
		FIRM	INTERRUPT.	FIRM	INTERRUPT.	FIRM	INTERRUPT.		
1	ACA RECOVERY	(1,142,441.86)	0.00	(554,871.94)	0.00	200,657.00	0.00	(1,496,656.80)	1
2	REGULAR RECOVERY	11,185,768.73	0.00	4,218,868.83	0.00	1,511,249.75	0.00	16,915,885.31	2
3	TOTAL RECOVERY	10,043,326.87	0.00	3,663,994.89	0.00	1,711,906.75	0.00	15,419,228.51	3
4	LESS:								
5	PURCHASED GAS COST PER BOOKS	8,719,188.18	0.00	2,678,739.74	0.00	1,927,296.91	0.00	13,325,224.83	4
6	STORAGE COSTS	3,104,727.23	0.00	1,730,385.79	0.00	0.00	0.00	4,835,113.02	5
7	TOTAL PURCHASED GAS COST PER BOOKS	11,823,915.41	0.00	4,409,125.53	0.00	1,927,296.91	0.00	18,160,337.85	6
8	GROSS RECOVERY	(1,780,588.54)	0.00	(745,130.64)	0.00	(215,390.16)	0.00	(2,741,109.34)	7
9	DCGB INTEREST REFUNDED (COLLECTED) 1998-1999 ACA YEAR	(935.00)	0.00	0.00	0.00	(11,491.00)	0.00	(12,426.00)	8
10	DCGB INTEREST REFUNDED (COLLECTED) 1997-1998 ACA YEAR	33,387.00	0.00	5,710.00	0.00	(14,794.00)	0.00	24,303.00	9
11	TOP/TC COSTS TRANSFER - PERMANENT CESSATION								
12	AUGUST 1998 BALANCE	81,897.24	0.00	3,937.14	0.00	0.00	0.00	85,634.38	10
13	1997-1998 ACA YEAR COMPANY USE PGA ACA ADJUSTMENT	3,369.21	0.00	1,592.36	0.00	526.52	0.00	5,488.09	11
14	PURCHASED GAS COST IMBALANCES:								
15	SYSTEM SUPPLY								
16	PLUS: AUGUST 1998 BALANCE	287,123.84	0.00	(162,847.20)	0.00	(65,756.43)	0.00	58,520.21	12
17	LESS: 98-99 BALANCE PRIOR TO IMBALANCE BEING								
18	INCLUDED IN GAS COSTS FOR 98-99 ACA YEAR	0.00	0.00	(3,390.10)	0.00	(16,470.52)	0.00	(19,860.62)	13
19	REV. RECOVERY OVER/(UNDER) COST	(1,375,946.25)	0.00	(893,348.24)	0.00	(290,434.55)	0.00	(2,559,729.04)	14
20	BEGINNING ACA RECOVERY BALANCE SEPTEMBER 1998	1,592,305.28	9,563.19	754,664.08	(104,100.46)	(373,143.40)	0.00	1,879,288.67	15
21	ACA RECOVERY BALANCE AUGUST 1999 PER BOOKS	33,304.65	9,563.19	(150,123.57)	(104,100.46)	(1,016,456.59)	0.00	(1,227,812.78)	16
22	LESS ACTUAL ACA RECOVERY 9/99 BOOKED 8/99	39,268.04	0.00	11,439.41	0.00	(5,248.35)	0.00	45,458.10	17
23	REVERSE OUT CORRECTIONS MADE 10/98	0.00	0.00	0.00	0.00	358,126.99	0.00	358,126.99	18
24	CORRECTIONS TO BE MADE 10/99	143,786.32	0.00	0.00	0.00	0.00	0.00	143,786.32	19
25	ENDING ACA RECOVERY BALANCE PER BOOKS	216,359.01	9,563.19	(138,684.16)	(104,100.46)	(663,577.95)	0.00	(680,440.37)	20
26	GR-93-172 MCF SALES	3,823,123	123,143	1,468,777	0	624,486	0	6,039,529	21
27	CALCULATED ACA RATES FOR 11/99 PER CCF	(0.00566)	(0.00777)	0.00944	0.00000	0.10628	0.00000		22
28	EFFECTIVE 11/18/98	(0.04165)	(0.00777)	(0.05138)	0.00000	0.05975	0.00000		23
29	CHANGE IN ACA RATE	0.03599	0.00000	0.06082	0.00000	0.04651	0.00000		24

MISSOURI PUBLIC SERVICE
Southern System Gas Refund

	FIRM	INTERRUPTIBLE	TRANSPORTATION	TOTAL
Prior Years Balance	\$3,052,729.41	\$154,846.17	\$0.00	\$3,207,575.58
Refund Check Received From WNG 5/99	\$377,692.98	\$0.00	\$0.00	377,692.98
6% Interest (5/04/99 - 11/01/99)	\$11,299.75	\$0.00	\$0.00	11,299.75
6% Interest (11/02/99 - 05/01/00)	\$11,299.75	\$0.00	\$0.00	11,299.75
Refund Check Received From WNG 6/99	\$14,560.53	\$0.00	\$0.00	14,560.53
6% Interest (6/11/99 - 11/01/99)	\$344.66	\$0.00	\$0.00	344.66
6% Interest (11/02/99 - 05/01/00)	\$435.62	\$0.00	\$0.00	435.62
Refund Check Received From WNG 9/99	\$28,745.59	\$0.00	\$0.00	28,745.59
6% Interest (9/20/99 - 11/01/99)	\$203.19	\$0.00	\$0.00	203.19
6% Interest (11/02/99 - 05/01/00)	\$860.00	\$0.00	\$0.00	860.00
(Adjusted)				
Actual Gas Refunds:				
Prior Years Balance	\$1,990,913.36	\$154,846.17	\$0.00	2,145,759.53
September 1998	\$17,892.16	\$0.00	\$0.00	17,892.16
October 1998	\$22,381.32	\$0.00	\$0.00	22,381.32
November 1998	\$58,062.94	\$0.00	\$0.00	58,062.94
December 1998	\$97,826.55	\$0.00	\$0.00	97,826.55
January 1999	\$226,776.24	\$0.00	\$0.00	226,776.24
February 1999	\$143,062.33	\$0.00	\$0.00	143,062.33
March 1999	\$133,295.38	\$0.00	\$0.00	133,295.38
April 1999	\$97,474.65	\$0.00	\$0.00	97,474.65
May 1999	\$51,029.54	\$0.00	\$0.00	51,029.54
June 1999	\$23,897.00	\$0.00	\$0.00	23,897.00
July 1999	\$23,625.87	\$0.00	\$0.00	23,625.87
August 1999	\$21,111.69	\$0.00	\$0.00	21,111.69
Actual Refunds Through August 1999	\$2,907,349.03	\$154,846.17	\$0.00	\$3,062,195.20
Balance as of August 31, 1999	<u>\$590,822.45</u>	<u>\$0.00</u>	<u>\$0.00</u>	<u>\$590,822.45</u>
GR-93-Mcfs				
Firm	3,823,123			3,823,123
Interruptible	-			
Transport	-			
	<u>3,823,123</u>			
			Refund Rate Per Ccf	<u>\$0.01545</u>

MPS proposes to change the refund rate from the present rate of \$0.2777/Mcf to \$0.1545/Mcf.

Williams Check # 352031	\$	88,059.68
Williams Check #351944	\$	14,920.49 ✓
Williams Check #351939	\$	10,699.21
Williams Check # 352030	\$	996,313.20
	\$	1,109,992.58

1,095,072.09

PNG	\$	25,619.71 *
KPS	\$	289,550.50
MPS	\$	377,692.98
UES	\$	417,129.39
	\$	1,109,992.58

* \$.01 added to PNG as Williams ck greater than workpapers.

MPS

* 352031 = 0

* 351944 = 0

* 351939 = 0

* 352030 = 377,692.98 *

* 642,598.93

x .56514644

363,162.50

+ 5,888.63

+ 8,641.85

377,692.98

Williams Check # 352030

Cust #	Cont #	Dates	Volumes	TYPE	Refund	
3391	ISA0012	11/93-8/94	4,661,342	rec	\$ 3,337.51	
	ISA0012	11/93-7/94	285,993	red	\$ 4,095.11	
	ISA0012	11/93-3/94	991,431	wdr	\$ 1,470.00	
Total	ISA0012					\$ 8,902.62 (1)
	ITA0012	11/93-7/94	7535841	cmd	\$ 23,656.31	
	ITA0012	11/93-7/94	426994	nrf	\$ (1,241.84)	
	ITA0013	11/93-7/95	576810	res	\$ 233,944.93	
Total						\$ 256,359.40 (2)
	ITA0576	11/93-6/94	500297	cmb	\$ 5.56	
	ITA0576	11/93-6/94	500297	cmd	\$ 1,779.63	
	ITA0576	11/93-6/94	105597	reb	\$ 1,777.07	
	ITA0576	11/93-7/94	105597	res	\$ 52,211.30	
	ITA0576	1/94-2/94	0	rva	\$ 157.47	
Total						\$ 55,931.03 (3)
	ITA0694	11/93-4/94	154782	cmb	\$ 117.80	
	ITA0694	11/93-4/94	309524	cmd	\$ 5,028.13	
Total						\$ 5,145.93 (4)
	ITA0695	11/93-4/94	84246	cmb	\$ 64.12	
		11/93-4/94	84246	cmd	\$ 2,688.61	
Total						\$ 2,732.73 (5)
Total UES						\$ 329,069.71 (6)
7921	ISA011	11/93-8/94	3435608	rec	\$ 2,709.45	
	ISA011	11/93-7/94	190809	red	\$ 2,732.26	
	ISA011	11/93-3/94	650692	wdr	\$ 936.94	
						\$ 6,378.65 (7)
	ISA017	8/94-6/95	658782	inj	\$ 113.30	
	ISA017	8/94-6/95	796629	rec	\$ 591.30	
	ISA017	9/94-3/95	582758	red	\$ 5,459.94	
	ISA017	9/94-3/95	1753376	wdr	\$ 201.44	
						\$ 6,365.98 (8)
	ISA0557	Jul-95	319879	inj	\$ 43.53	
	ISA0557	Jul-95	1105000	rec	\$ 1,203.20	
	ISA0557	Jul-95	44965	red	\$ 875.18	
						\$ 2,121.91 (9)
	ISA0557	11/93-7/94	5277220	cmd	\$ 17,383.60	
		11/93-7/94	286209	nrf	\$ (828.42)	
		11/93-7/94	384822	res	\$ 156,076.56	
						\$ 172,631.74 (10)
	ITA0017	8/94-6/95	13523231	cmd	\$ 7,807.16	
		8/94-6/95	874137	nrf	\$ (4,342.42)	
		8/94-6/95	1175328	res	\$ 265,348.91	
						\$ 268,813.65 (11)
	ITA0553	11/93-4/95	693310	cmb	\$ 43.39	
		11/93-4/95	693310	cmd	\$ 3,224.07	
		11/93-7/95	393497	reb	\$ 7,860.82	
		11/93-7/95	393497	res	\$ 151,379.23	
						\$ 162,507.61 (12)
	ITA0557	Jul-95	810686	cmd	\$ 49.87	
		Jul-95	67448	nrf	\$ (321.38)	
			90688	res	\$ 22,644.80	
						\$ 22,373.29 (13)
	ITA0640	Jul-95	45520	cmb	\$ (6.18)	
		Jul-95	45520	cmd	\$ (37.17)	
		Jul-95	2273	reb	\$ 52.60	
		Jul-95	2273	res	\$ 1,396.85	
						\$ 1,406.10 (14)
Total UCU Regulated						\$ 642,598.93 (15)
UCU ISS	10/93-9/94				\$ 1,933.17 **	
KPS	10/93-9/94				\$ 4,098.83	
MpPub	10/93-9/94				\$ 5,888.53	
UCU ISS	10/94-7/95				\$ 12,723.92 **	
					\$ 996,313.19	

* 56.51% MPS
43.49% KPS

** \$ 8,641.85 MPS
\$ 6,015.24 KPS

Central

WILLIAMS GAS PIPELINES CENTRAL, INC.
P. O. Box 3288, Tulsa, Oklahoma 74101

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT, PLEASE NOTIFY US PROMPTLY AT (502)226-8686.

INVOICE DATE	INVOICE/CONTRACT NUMBER	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
05/03/99	1249120	RP 93-109 RATE REFUND	\$996,313.20		\$996,313.20
TOTALS			\$996,313.20		\$996,313.20

CHECK NO. 352030
VENDOR NO. U035 1
CHECK DATE 05/04/99

CHECK NO. 352030
VENDOR NO. U035 1
CHECK DATE 05/04/99

WILLIAMS GAS PIPELINES CENTRAL, INC.
P. O. Box 3288, Tulsa, Oklahoma 74101

Williams

Bassettville Maine, N.A.
South Portland, ME

52-153
112

PAY EXACTLY

\$996,313.20

PAY 996,313 DOLLARS AND 20 CENTS

UTILICORP ENERGY SOLUTIONS
ATTN: MATT TRAUB/LINDA GOW
2533 NORTH 117TH AVENUE
OMAHA, NE 68164

WILLIAMS GAS PIPELINES CENTRAL, INC.

Manager, Accounting & Forecasting

AUTHORIZED SIGNATURE

11 352030 011201539 80 025 354

May 4, 1999



Gas Pipelines - Central
One Williams Center
P.O. Box 3288
Tulsa, Oklahoma 74101
918/588-2000

TO THE JURISDICTIONAL CUSTOMERS OF
WILLIAMS GAS PIPELINES CENTRAL, INC.
RECEIVING A REFUND IN
FERC DOCKET NO. RP93-109

Dear Customer:

By Order on Rehearing issued March 5, 1999,¹ the Commission upheld its previous order issued July 29, 1998² in Docket No. RP93-109, which addressed the appropriate method for determining a just and reasonable rate of return for Williams for the locked-in period November 1, 1993 to July 31, 1995.

Pursuant to Section 154.501(a) of the Commission's regulations, Williams is refunding to its customers, with interest from the date of payment to May 3, 1999, the total amount collected under the effective base rates during the locked-in period November 1, 1993 to July 31, 1995, in excess of the amounts that would have been collected under the maximum rates filed by Williams on October 12, 1998 in compliance with Commission order issued July 29, 1998.

For firm storage customers, refunds are also included for ISS revenues for the periods October 1, 1993 through September 30, 1994 and October 1, 1994 through July 31, 1995, including interest through May 3, 1999, in accordance with the provisions of WNG's tariff.

Accordingly, for each customer entitled to a refund pursuant to the above mentioned order, we are enclosing a check for the amount of refund due, including interest, net of receivables 60 days or more past due.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Bart W. Wherritt".

Bart W. Wherritt, Manager
Certificates and Tariffs

rp93109ref5499.doc

¹ 86 FERC 61,232 (1999).

² 84 FERC 61,080 (1998).

Williams Gas Pipelines Central
Allocation of ISS Refund by Shipper
October 1993 - September 1994
Docket No. RP93-109

Cust #	Customer Name	Reservation Charge by Customer	%	Principal	Interest	Total ISS Refund
97	Altamont	\$7,271.87	0.000477	\$84.69	\$37.34	\$122.03
123	Americus Gas	3,040.91	0.000200	35.41	15.61	51.02
189	Argonia	2,555.00	0.000168	29.75	13.12	42.87
190	Arkla	13,196.08	0.000866	153.68	67.76	221.44
223	Auburn	15,628.89	0.001026	182.01	80.25	262.26
227	Avant	1,434.35	0.000094	16.70	7.36	24.06
419	Billings	2,127.26	0.000140	24.77	10.95	35.72
726	Burlingame	1,664.55	0.000109	19.38	8.55	27.93
728	Burlington	950.22	0.000062	11.07	4.88	15.95
856	Cassoday	1,159.35	0.000076	13.50	5.95	19.45
4672	City Utilities	417,753.42	0.027412	4,865.06	2,145.00	7,010.06
979	Cleveland	7,806.64	0.000512	90.91	40.08	130.99
1082	Copan	3,076.07	0.000202	35.82	15.79	51.61
1205	Danville	231.00	0.000015	2.69	1.19	3.88
1272	Denison	1,340.69	0.000088	15.61	6.88	22.49
1440	Eckert Gas	359.31	0.000024	4.18	1.84	6.02
1687	Flint Hills	358.80	0.000024	4.18	1.84	6.02
1711	Ford	952.96	0.000063	11.10	4.89	15.99
1745	Freedom	1,370.17	0.000090	15.96	7.04	23.00
7198	Freedom Municipal	101.86	0.000007	1.19	0.52	1.71
1816	Gate	672.27	0.000044	7.83	3.45	11.28
1948	Granby	8,526.25	0.000559	99.29	43.78	143.07
1981	Greeley Gas Co.	131,933.51	0.008657	1,536.47	677.43	2,213.90
2080	Hamilton	2,489.15	0.000163	28.99	12.78	41.77
2344	Howard	6,913.51	0.000454	80.51	35.50	116.01
2626	Kansas Gas Supply	5,644,891.11	0.370405	65,739.10	28,984.30	94,723.40
2675	Kechi	2,746.61	0.000180	31.99	14.10	46.09
7560	KMGA	52,398.33	0.003438	610.22	269.04	879.26
2905	Lebo	4,858.31	0.000319	56.58	24.95	81.53
2945	Liberal	2,813.25	0.000185	32.76	14.44	47.20
3097	Mannford	7,787.56	0.000511	90.69	39.99	130.68
3245	McLouth	6,708.17	0.000440	78.12	34.44	112.56
7831	MGE	6,836,849.31	0.448618	79,620.37	35,104.53	114,724.90
3481	Mulberry	2,864.16	0.000188	33.36	14.71	48.07
3482	Mulhall Natural Gas	1,062.58	0.000070	12.37	5.46	17.83
7315	Nebraska Public	55,522.52	0.003643	646.60	285.09	931.69
4296	Nelagoney Rural	218.45	0.000014	2.54	1.12	3.66
3569	Neodesha	35,457.71	0.002327	412.93	182.06	594.99
3681	Oilton	317.02	0.000021	3.69	1.63	5.32
3707	Olivet	399.82	0.000026	4.66	2.05	6.71
3725	Orlando	786.47	0.000052	9.16	4.04	13.20
3726	Oronogo	852.74	0.000056	9.93	4.38	14.31
3852C	Peoples Natural Gas	3,705.25	0.000243	43.15	19.03	62.18
3956	Plattsburg	15,199.52	0.000997	177.01	78.04	255.05
4034	Public Service Co.	907.13	0.000060	10.56	4.66	15.22
4080	Ramona Public Works	902.27	0.000059	10.51	4.63	15.14
4107	Reading	1,205.25	0.000079	14.04	6.19	20.23
1934	Rural Water	646.38	0.000042	7.53	3.32	10.85
4440	Severy Gas	1,452.43	0.000095	16.91	7.46	24.37
6515	United Cities	1,212,405.92	0.079555	14,119.42	6,225.21	20,344.63
7921	Utilicorp	115,204.28	0.007559	1,341.64	591.53	1,933.17
7921	KPS	244,263.33	0.016028	2,844.63	1,254.20	4,098.83
7921	MoPub	350,924.43	0.023027	4,086.77	1,801.86	5,888.63
5138	Viola	639.90	0.000042	7.45	3.29	10.74
5169	Wakita	2,374.13	0.000156	27.65	12.19	39.84
5216	Wann Public Works	521.89	0.000034	6.08	2.68	8.76
Total		\$ 15,239,800.31	1.000000	\$ 177,479.17	\$ 78,250.38	\$ 255,729.55

WILLIAMS GAS PIPELINES CENTRAL
ISS REFUND FOR OCT 1993 - SEPT 1994:
DOCKET NO. RP93-109

MTH	Billed Dth	Billed Rate	Billed Amount	Settled Amount	Refund Amount
Oct-93	0	0.0000	\$ -	\$ -	\$ -
Nov-93	0	0.0000	\$ -	\$ -	\$ -
Dec-93	0	0.0000	\$ -	\$ -	\$ -
Jan-94	0	0.0000	\$ -	\$ -	\$ -
Feb-94	0	0.0000	\$ -	\$ -	\$ -
Mar-94	0	0.0000	\$ -	\$ -	\$ -
Apr-94	0	0.0000	\$ -	\$ -	\$ -
May-94	877,379	0.0319	\$ 27,988.39	\$ -	\$ 27,988.39
May-94	12,467	0.0300	\$ 374.01	\$ -	\$ 374.01
May-94	185,223	0.0300	\$ 5,556.69	\$ -	\$ 5,556.69
Jun-94	181,267	0.0300	\$ 5,438.01	\$ -	\$ 5,438.01
Jun-94	26,101	0.0300	\$ 783.03	\$ -	\$ 783.03
Jun-94	973,282	0.0319	\$ 31,047.70	\$ -	\$ 31,047.70
Jul-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Jul-94	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Jul-94	249,314	0.0300	\$ 7,479.42	\$ -	\$ 7,479.42
Aug-94	110,130	0.0300	\$ 3,303.90	\$ -	\$ 3,303.90
Aug-94	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Aug-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Sep-94	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Sep-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63

TOTAL ISS REFUND

\$ 177,479.20

WILLIAMS GAS PIPELINES CENTRAL
INTEREST CALCULATION
ISS REFUND OCTOBER 1993 - SEPTEMBER 1994
Thru May 3, 1999

Year	Prod Month	Interest Month	Original Principal	End of Month Principal	Interest Rate	Interest thru 05/03/99	Interest Subtotal	Total Amount
	4th QTR		\$ 177,479.20	\$ 177,479.20	0.0734	\$ 3,283.51	\$ 3,283.51	
1995	1st QTR		0.00	180,762.71	0.0788	3,512.24	3,512.24	
	2nd QTR		0.00	184,274.95	0.0867	3,983.22	3,983.22	
	3rd QTR		0.00	188,258.17	0.0900	4,270.62	4,270.62	
	4th QTR		0.00	192,528.79	0.0885	4,294.71	4,294.71	
1996	1st QTR		0.00	196,823.50	0.0875	4,281.99	4,281.99	
	2nd QTR		0.00	201,105.49	0.0847	4,235.14	4,235.14	
	3rd QTR		0.00	205,340.63	0.0825	4,258.29	4,258.29	
	4th QTR		0.00	209,598.92	0.0825	4,346.60	4,346.60	
1997	1st QTR		0.00	213,945.52	0.0825	4,352.18	4,352.18	
	2nd QTR		0.00	218,297.70	0.0825	4,490.05	4,490.05	
	3rd QTR		0.00	222,787.75	0.0843	4,733.84	4,733.84	
	4th QTR		0.00	227,521.59	0.0850	4,874.57	4,874.57	
1998	1st QTR		0.00	232,396.16	0.0850	4,221.33	4,221.33	
	2nd QTR		0.00	236,617.49	0.0850	5,014.35	5,014.35	
	3rd QTR		0.00	241,631.84	0.0850	2,082.01	2,082.01	
	4th QTR		0.00	243,713.85	0.0850	5,221.49	5,221.49	
1999	1st QTR		0.00	248,935.34	0.0817	5,014.85	5,014.85	
	2nd QTR		0.00	253,950.19	0.0775	1,779.39	1,779.39	
TOTAL			\$ 177,479.20			\$ 78,250.38	\$ 78,250.38	\$ 255,729.58

Williams Gas Pipelines Central
Allocation of ISS Refund by Shipper
October 1994 - July 1995
Docket No. RP93-109

Cust #	Customer Name	Reservation Charge by Customer	%	Principal	Interest	Total ISS Refund
97	Altamont	\$5,685.93	0.000462	\$109.48	\$35.94	\$145.42
123	Americus Gas	2,527.60	0.000205	48.67	15.98	\$64.65
189	Argonia	2,235.14	0.000182	43.04	14.13	\$57.17
190	Arkla	10,504.68	0.000853	202.27	66.40	\$268.67
223	Auburn	18,368.05	0.001492	353.67	116.10	\$469.77
227	Avant	1,107.52	0.000090	21.33	7.00	\$28.33
419	Billings	1,641.42	0.000133	31.61	10.37	\$41.98
726	Burlingame	1,414.08	0.000115	27.23	8.94	\$36.17
728	Burlington	751.93	0.000061	14.48	4.75	\$19.23
856	Cassoday	872.98	0.000071	16.81	5.52	\$22.33
4672	City Utilities	320,557.50	0.026033	6,172.28	2,026.15	\$8,198.43
979	Cleveland	6,908.97	0.000561	133.03	43.67	\$176.70
1082	Copan	2,473.42	0.000201	47.63	15.63	\$63.26
1205	Danville	208.78	0.000017	4.02	1.32	\$5.34
1272	Denison	1,159.59	0.000094	22.33	7.33	\$29.66
1440	Eckert Gas	290.02	0.000024	5.58	1.83	\$7.41
1687	Flint Hills	325.28	0.000026	6.26	2.06	\$8.32
1711	Ford	969.69	0.000079	18.67	6.13	\$24.80
1745	Freedom	1,155.79	0.000094	22.25	7.31	\$29.56
1816	Gate	497.91	0.000040	9.59	3.15	\$12.74
1948	Granby	6,871.69	0.000558	132.31	43.43	\$175.74
1981	Greeley Gas Co.	91,679.85	0.007445	1,765.28	579.48	\$2,344.76
7484	Grove Municipal	3,330.74	0.000270	64.13	21.05	\$85.18
2080	Hamilton	3,656.03	0.000297	70.40	23.11	\$93.51
2344	Howard	8,803.58	0.000715	169.51	55.64	\$225.15
2456	Iola	2,694.17	0.000219	51.88	17.03	\$68.91
2626	Kansas Ga Supply	5,072,028.43	0.411908	97,660.98	32,058.84	\$129,719.82
2675	Kechi	2,513.30	0.000204	48.39	15.89	\$64.28
7560	KMGA	48,382.43	0.003929	931.59	305.81	\$1,237.40
2900	LEANN	19.77	0.000002	0.38	0.12	\$0.50
2905	Lebo	6,744.25	0.000548	129.86	42.63	\$172.49
2945	Liberal	2,053.02	0.000167	39.53	12.98	\$52.51
3097	Mannford	6,717.56	0.000546	129.35	42.46	\$171.81
3245	McLouth	8,389.66	0.000681	161.54	53.03	\$214.57
7831	MGE	5,310,033.60	0.431237	102,243.72	33,563.21	\$135,806.93
3481	Mulberry	1,874.34	0.000152	36.09	11.85	\$47.94
3482	Mulhali Natural Gas	776.21	0.000063	14.95	4.91	\$19.86
7315	Nebraska Public	42,491.72	0.003451	818.17	268.58	\$1,086.75
4296	Nelagoney Rural	165.96	0.000013	3.20	1.05	\$4.25
3569	Neodesha	39,155.25	0.003180	753.93	247.49	\$1,001.42
3681	Oilton	206.51	0.000017	3.98	1.31	\$5.29
3707	Olivet	338.91	0.000028	6.53	2.14	\$8.67
3725	Orlando	648.82	0.000053	12.49	4.10	\$16.59
3726	Oronogo	4.27	0.000000	0.08	0.03	\$0.11
3852C	Peoples Natural Gas	2,955.14	0.000240	56.90	18.68	\$75.58
3956	Plattsburg	11,111.57	0.000902	213.95	70.23	\$284.18
4034	Public Service Co.	627.59	0.000051	12.08	3.97	\$16.05
4107	Reading	1,028.57	0.000084	19.81	6.50	\$26.31
1934	Rural Water	519.49	0.000042	10.00	3.28	\$13.28
4440	Severy Gas	1,093.77	0.000089	21.06	6.91	\$27.97
6515	United Cities	756,358.40	0.061425	14,563.54	4,780.73	\$19,344.27
7921	Utilicorp	497,503.60	0.040403	9,579.34	3,144.58	\$12,723.92
5138	Viola	572.07	0.000046	11.02	3.62	\$14.64
5169	Wakita	2,045.75	0.000166	39.39	12.93	\$52.32
5216	Wann Public Works	446.84	0.000036	8.60	2.82	\$11.42
Total		\$12,313,499.15	1.000000	\$237,094.19	\$77,830.11	\$ 314,924.30

WILLIAMS GAS PIPELINES CENTRAL
ISS REFUND FOR OCT 1994 - July 1995:
DOCKET NO. RP93-109

MTH	Billed Dth	Billed Rate	Billed Amount	Settled Amount	Refund Amount
Oct-94	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Oct-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Nov-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Nov-94	961,899	0.0319	\$ 30,684.58	\$ -	\$ 30,684.58
Dec-94	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Dec-94	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Jan-95	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Jan-95	973,147	0.0319	\$ 31,043.39	\$ -	\$ 31,043.39
Feb-95	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Feb-95	1,037,936	0.0319	\$ 33,110.16	\$ -	\$ 33,110.16
Feb-95	(84,789)	0.0319	\$ (2,066.77)	\$ -	\$ (2,066.77)
Mar-95	671,636	0.0319	\$ 21,425.19	\$ -	\$ 21,425.19
Mar-95	(24,089)	0.0319	\$ (768.44)	\$ -	\$ (768.44)
Mar-95	(84,789)	0.0319	\$ (2,066.77)	\$ -	\$ (2,066.77)
Mar-95	(40,700)	0.0319	\$ (1,298.33)	\$ -	\$ (1,298.33)
Mar-95	24,089	0.0319	\$ 768.44	\$ -	\$ 768.44
Mar-95	26,421	0.0300	\$ 792.63	\$ -	\$ 792.63
Mar-95	(19,558)	0.0300	\$ (586.74)	\$ -	\$ (586.74)
Apr-95	24,643	0.0300	\$ 739.29	\$ -	\$ 739.29
Apr-95	144,827	0.0150	\$ 2,172.41	\$ -	\$ 2,172.41
Apr-95	248,147	0.0319	\$ 7,915.89	\$ -	\$ 7,915.89
May-95	2,458	0.0300	\$ 73.74	\$ -	\$ 73.74
May-95	150,000	0.0150	\$ 2,250.00	\$ -	\$ 2,250.00
May-95	267,932	0.0100	\$ 2,679.32	\$ -	\$ 2,679.32
May-95	331,532	0.0319	\$ 10,575.87	\$ -	\$ 10,575.87
Jun-95	150,000	0.0150	\$ 2,250.00	\$ -	\$ 2,250.00
Jun-95	522,330	0.0100	\$ 5,223.30	\$ -	\$ 5,223.30
Jun-95	467,284	0.0319	\$ 14,906.36	\$ -	\$ 14,906.36
Jul-95	150,000	0.0150	\$ 2,250.00	\$ -	\$ 2,250.00
Jul-95	156,196	0.0100	\$ 1,561.96	\$ -	\$ 1,561.96
Jul-95	221,574	0.0319	\$ 7,068.21	\$ -	\$ 7,068.21
Jul-95	11,352	0.0300	\$ 340.56	\$ -	\$ 340.56

TOTAL ISS REFUND \$ 237,094.17

WILLIAMS GAS PIPELINES CENTRAL
INTEREST CALCULATION
ISS REFUND OCTOBER 1994 - July 1995
Thru May 3, 1999

Year	Prod Month	Interest Month	Original Principal	End of Month Principal	Interest Rate	Interest thru 05/03/99	Interest Subtotal	Total Amount
			\$	\$		\$	\$	
1996	4th QTR		237,094.17	237,094.17	0.0885	5,288.82	5,288.82	
	1st QTR		0.00	242,382.99	0.0875	5,273.15	5,273.15	
	2nd QTR		0.00	247,656.14	0.0847	5,215.46	5,215.46	
	3rd QTR		0.00	252,871.60	0.0825	5,243.98	5,243.98	
1997	4th QTR		0.00	258,115.58	0.0825	5,352.72	5,352.72	
	1st QTR		0.00	263,468.30	0.0825	5,359.59	5,359.59	
	2nd QTR		0.00	268,827.89	0.0825	5,529.38	5,529.38	
	3rd QTR		0.00	274,357.27	0.0843	5,829.60	5,829.60	
1998	4th QTR		0.00	280,186.87	0.0850	6,002.91	6,002.91	
	1st QTR		0.00	286,189.78	0.0850	5,198.46	5,198.46	
	2nd QTR		0.00	291,388.24	0.0850	6,175.04	6,175.04	
	3rd QTR		0.00	297,563.28	0.0850	2,563.94	2,563.94	
1999	4th QTR		0.00	300,127.22	0.0850	6,430.12	6,430.12	
	1st QTR		0.00	306,557.34	0.0817	6,175.66	6,175.66	
	2nd QTR		0.00	312,733.00	0.0775	2,191.27	2,191.27	
TOTAL			\$ 237,094.17			\$ 77,830.10	\$ 314,924.27	

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WILLIAMS NATURAL GAS COMPANY

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REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTM	BILLED	SETTLED	REVENUE	SETTLED	AMOUNT	INTEREST	REFUND
03391	13A0012	TSS	CHR	R	ACC	(APT)	DTM	REVENUE	REVENUE					TOTAL
			INJ					930.61	930.61	0.00	0.00	0.00	0.00	0.00
					199404		134871	1,482.61	1,482.61	0.00	0.00	0.00	0.00	0.00
					199405		216871	1,671.06	1,671.06	0.00	0.00	0.00	0.00	0.00
					199406		242183	1,364.29	1,364.29	0.00	0.00	0.00	0.00	0.00
					199407		197723							

TYP CHR INJ

TOTAL			REC					5,448.57	5,448.57	0.00	0.00	0.00	0.00	0.00
					199311		863884	29,169.78	27,577.18	1,592.60	1,592.60	1,592.60	849.02	2,441.62
					199312		638225	20,997.60	19,912.62	1,084.98	1,084.98	1,084.98	568.13	1,653.11
					199401		281286	9,254.38	8,776.19	478.19	478.19	478.19	247.77	725.96
					199402		64511	2,122.41	2,012.74	109.67	109.67	109.67	56.10	165.77
					199403		39995	1,231.85	1,247.84	15.99	15.99	15.99	8.02	24.01
					199404		169646	5,225.10	5,292.96	67.86	67.86	67.86	33.71	101.57
					199405		376201	11,586.99	11,737.47	150.48	150.48	150.48	73.55	224.03
					199406		608634	18,745.93	18,989.38	243.45	243.45	243.45	117.09	360.54
					199407		799479	24,623.95	24,943.74	319.79	319.79	319.79	150.99	470.78
					199408		799479	24,623.95	24,943.74	319.79	319.79	319.79	148.23	468.02

TYP CHR REC

TOTAL			RED					147,581.94	145,433.86	2,148.08	2,148.08	2,148.08	1,189.43	3,337.51
					199311		31777	18,087.47	17,165.94	921.53	921.53	921.53	491.26	1,412.79
					199312		31777	18,087.47	17,165.94	921.53	921.53	921.53	482.55	1,404.08
					199401		31777	18,087.47	17,165.94	921.53	921.53	921.53	477.51	1,399.04
					199402		31777	18,087.47	17,165.94	921.53	921.53	921.53	471.33	1,392.86
					199403		31777	16,962.56	17,165.94	203.38	203.38	203.38	102.44	305.82
					199404		31777	16,962.56	17,165.94	203.38	203.38	203.38	101.02	304.40
					199405		31777	16,962.56	17,165.94	203.38	203.38	203.38	99.43	302.81
					199406		31777	16,962.56	17,165.94	203.38	203.38	203.38	97.84	301.22
					199407		31777	16,962.56	17,165.94	203.38	203.38	203.38	96.03	299.41

TYP CHR RED

TOTAL			WDR					157,162.68	154,693.46	2,669.22	2,669.22	2,669.22	1,425.89	4,095.11
					199311		147542	1,165.58	1,018.04	147.54	147.54	147.54	78.66	226.20
					199312		245659	1,940.71	1,695.05	245.66	245.66	245.66	128.62	374.29
					199401		356937	2,819.80	2,462.87	356.93	356.93	356.93	184.95	541.88
					199402		216777	1,712.54	1,495.76	216.78	216.78	216.78	110.86	327.64
					199403		24516	169.16	169.16	0.00	0.00	0.00	0.00	0.00

TYP CHR WDR

TOTAL								7,807.79	6,840.88	966.91	966.91	966.91	503.09	1,470.00
			RSC	TSS										
TOTAL								318,800.98	312,216.77	5,784.21	5,784.21	5,784.21	3,118.41	8,902.62

CONTRACT 13A0012

TOTAL			CMD	M				318,000.98	312,216.77	5,784.21	5,784.21	5,784.21	3,118.41	8,902.62
					199311		70714	968.78	855.64	113.14	113.14	113.14	60.31	173.45
					199311		82591	1,128.76	996.93	131.83	131.83	131.83	70.26	202.09

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTM	BILLED	SETTLED	REVENUE	SETTLED	REVENUE	SETTLED	REFUND	INTEREST	REFUND
03391	17A0012	TSS	CHR	R	ACC	(APT)		REVENUE	REVENUE					AMOUNT		TOTAL
			M		M	199311 1113856	60879	834.04	736.64		97.40			97.40	51.90	149.30
			M		M	199311 1113864	17268	236.57	208.94		27.63			27.63	14.73	42.36
			M		M	199311 1113872	83783	1,147.83	1,013.77		134.06			134.06	71.47	205.53
			M		M	199311 1113876	172463	2,362.74	2,086.80		275.94			275.94	147.10	423.04
			M		M	199311 1113880	505	6.92	6.11		0.81			0.81	0.40	1.21
			M		M	199311 1113892	10793	147.86	130.60		17.26			17.26	9.21	26.47
			P		M	199311 1999000	376468	6,927.01	4,479.97		2,447.04			2,447.04	1,304.47	3,751.51
			M		M	199312 1113812	87007	1,192.00	1,052.78		139.22			139.22	72.92	212.14
			M		M	199312 1113852	110356	1,548.87	1,367.98		180.89			180.89	94.73	275.62
			M		M	199312 1113856	82177	1,125.82	994.34		131.48			131.48	68.84	200.32
			M		M	199312 1113864	21760	298.11	263.30		34.81			34.81	18.23	53.04
			M		M	199312 1113872	110624	1,515.55	1,338.55		177.00			177.00	92.70	269.70
			M		M	199312 1113876	229598	3,145.38	2,778.04		367.34			367.34	192.37	559.71
			M		M	199312 1113880	1889	25.88	22.86		3.02			3.02	1.61	4.63
			M		M	199312 1113892	13256	181.61	160.40		21.21			21.21	11.13	32.34
			P		M	199312 1999000	435974	8,021.92	5,188.09		2,833.83			2,833.83	1,483.89	4,317.72
			M		M	199401 1113812	109448	1,499.44	1,524.32		175.12			175.12	90.75	265.87
			M		M	199401 1113852	152348	2,087.17	1,843.41		243.76			243.76	126.31	370.07
			M		M	199401 1113856	82910	1,135.87	1,003.21		132.66			132.66	68.74	201.40
			M		M	199401 1113864	29623	405.84	358.44		47.40			47.40	24.54	71.94
			M		M	199401 1113872	149351	2,046.11	1,807.15		238.96			238.96	123.84	362.80
			M		M	199401 1113876	314547	4,309.29	3,806.02		503.27			503.27	260.81	764.08
			M		M	199401 1113880	2652	36.33	32.09		4.24			4.24	2.23	6.47
			M		M	199401 1113892	17654	241.86	213.61		28.25			28.25	14.64	42.89
			P		M	199401 1999000	467173	8,595.98	5,559.36		3,036.62			3,036.62	1,573.53	4,610.15
			M		M	199402 1113812	78589	1,076.67	950.93		125.74			125.74	64.28	190.02
			M		M	199402 1113852	104592	1,432.91	1,265.56		167.35			167.35	85.60	252.95
			M		M	199402 1113856	74462	1,020.13	900.99		119.14			119.14	60.94	180.08
			M		M	199402 1113864	21992	301.29	266.10		35.19			35.19	18.01	53.20
			M		M	199402 1113872	104600	1,433.02	1,265.66		167.36			167.36	85.60	252.96
			M		M	199402 1113876	216564	2,966.93	2,620.42		346.51			346.51	177.23	523.74
			M		M	199402 1113880	2038	27.92	24.66		3.26			3.26	1.65	4.91
			M		M	199402 1113892	12702	174.02	153.69		20.33			20.33	10.39	30.72
			P		M	199402 1999000	404044	7,434.41	4,808.12		2,626.29			2,626.29	1,343.27	3,969.56
			M		M	199403 1113812	51347	688.05	621.30		66.75			66.75	33.63	100.38
			M		M	199403 1113852	71633	959.88	866.76		93.12			93.12	46.91	140.03
			M		M	199403 1113856	46206	619.16	559.09		60.07			60.07	30.21	90.28
			M		M	199403 1113864	13747	184.21	166.34		17.87			17.87	8.98	26.85
			M		M	199403 1113872	69396	929.91	839.69		90.22			90.22	45.41	135.63
			M		M	199403 1113876	146441	1,962.31	1,771.94		190.37			190.37	95.88	286.25
			M		M	199403 1113880	1244	16.67	15.05		1.62			1.62	0.83	2.45
			M		M	199403 1113892	8421	112.84	101.89		10.95			10.95	5.52	16.47
			P		M	199403 1999000	387343	4,376.98	4,609.38		232.40			232.40	117.06	349.46
			M		M	199404 1113812	36187	484.91	437.86		47.05			47.05	23.36	70.41
			M		M	199404 1113852	51533	690.54	623.55		66.99			66.99	33.29	100.28
			M		M	199404 1113856	31304	420.55	379.75		40.80			40.80	20.28	61.08
			M		M	199404 1113864	9339	125.14	113.00		12.14			12.14	6.03	18.17
			M		M	199404 1113872	47071	630.75	569.56		61.19			61.19	30.39	91.58
			M		M	199404 1113876	97939	1,312.38	1,185.06		127.32			127.32	63.25	190.57
			M		M	199404 1113880	631	11.14	10.06		1.08			1.08	0.55	1.63
			M		M	199404 1113892	5293	70.93	64.05		6.88			6.88	3.41	10.29
			P		M	199404 1999000	405720	4,584.64	4,828.07		243.43			243.43	120.93	364.36

WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	ISS	TYP	A	DTE	LOCATION	ACC	API	BILLED	SETTLED	BILLED	SETTLED	REFUND	INTEREST	REFUND	TOTAL
03391	11A012	ISS		CHR	R					REVENUE	REVENUE	REVENUE	REVENUE	AMOUNT			
				CHD	M												
				M		199405	1113812			236.04	214.94	23.10	23.10	23.10	11.35	36.45	56.45
				M		199405	1113852			337.43	304.69	32.74	32.74	32.74	16.06	48.80	48.80
				M		199405	1113856			16262	196.76	217.91	217.91	21.15	10.32	31.47	31.47
				M		199405	1113864			64.33	58.09	6.24	6.24	6.24	3.05	9.29	9.29
				M		199405	1113872			21725	262.87	28.25	28.25	28.25	13.73	41.98	41.98
				M		199405	1113876			49433	598.15	64.25	64.25	64.25	31.22	95.47	95.47
				M		199405	1113880			354	4.28	0.46	0.46	0.46	0.19	0.65	0.65
				M		199405	1113892			2347	31.45	3.05	3.05	3.05	1.46	4.51	4.51
				M		199405	1113896			86451	1,046.06	112.39	112.39	112.39	54.96	167.35	167.35
				M		199405	1630204			5317	64.34	6.91	6.91	6.91	3.38	10.29	10.29
				P		199405	1999000			419461	4,991.59	251.68	251.68	251.68	123.08	374.76	374.76
				M		199406	1113812			10706	129.54	13.92	13.92	13.92	6.73	20.65	20.65
				M		199406	1113852			13940	168.67	18.13	18.13	18.13	8.70	26.83	26.83
				M		199406	1113856			8595	102.91	11.06	11.06	11.06	5.32	16.38	16.38
				M		199406	1113864			3267	39.53	4.25	4.25	4.25	2.05	6.30	6.30
				M		199406	1113872			13654	165.21	17.75	17.75	17.75	8.51	26.26	26.26
				M		199406	1113876			32700	395.67	42.51	42.51	42.51	20.47	62.98	62.98
				M		199406	1113880			214	2.87	0.28	0.28	0.28	0.18	0.46	0.46
				M		199406	1113892			1443	17.46	1.88	1.88	1.88	0.94	2.82	2.82
				M		199406	1135533			37406	501.24	48.63	48.63	48.63	23.36	71.99	71.99
				P		199406	1999000			372270	4,430.01	223.36	223.36	223.36	107.42	330.78	330.78
				M		199407	1013745			8497	102.81	11.05	11.05	11.05	5.24	16.29	16.29
				M		199407	1113812			10256	124.10	13.33	13.33	13.33	6.29	19.62	19.62
				M		199407	1113852			14333	173.43	18.63	18.63	18.63	8.81	27.44	27.44
				M		199407	1113856			8476	113.58	10.02	10.02	10.02	5.19	16.21	16.21
				M		199407	1113864			3159	38.22	4.11	4.11	4.11	1.92	6.03	6.03
				M		199407	1113872			12747	154.24	16.57	16.57	16.57	7.82	24.39	24.39
				M		199407	1113876			32069	388.03	41.69	41.69	41.69	19.69	61.38	61.38
				M		199407	1113880			210	2.54	0.27	0.27	0.27	0.17	0.44	0.44
				M		199407	1113892			1431	17.32	1.86	1.86	1.86	0.87	2.73	2.73
				M		199407	1135533			44870	542.93	58.33	58.33	58.33	27.55	85.88	85.88
				M		199407	1630204			52194	631.55	67.85	67.85	67.85	32.03	99.88	99.88
				P		199407	1999000			407437	4,848.50	244.46	244.46	244.46	115.43	359.89	359.89
										106,004.59	90,448.48	15,556.11	15,556.11	15,556.11	8,100.20	23,656.31	23,656.31
										86.37	86.37	0.00	0.00	0.00	0.00	0.00	0.00
										126.82	126.82	0.00	0.00	0.00	0.00	0.00	0.00
										93.57	93.57	0.00	0.00	0.00	0.00	0.00	0.00
										20.87	20.87	0.00	0.00	0.00	0.00	0.00	0.00
										120.92	120.92	0.00	0.00	0.00	0.00	0.00	0.00
										255.51	255.51	0.00	0.00	0.00	0.00	0.00	0.00
										86	1.50	0.00	0.00	0.00	0.00	0.00	0.00
										953	14.39	0.00	0.00	0.00	0.00	0.00	0.00
										5720	86.37	0.00	0.00	0.00	0.00	0.00	0.00
										8399	126.82	0.00	0.00	0.00	0.00	0.00	0.00
										6197	93.57	0.00	0.00	0.00	0.00	0.00	0.00
										1382	20.87	0.00	0.00	0.00	0.00	0.00	0.00
										8008	120.92	0.00	0.00	0.00	0.00	0.00	0.00
										16921	255.51	0.00	0.00	0.00	0.00	0.00	0.00
										86	1.50	0.00	0.00	0.00	0.00	0.00	0.00
										953	14.39	0.00	0.00	0.00	0.00	0.00	0.00
										5720	86.37	0.00	0.00	0.00	0.00	0.00	0.00
										8399	126.82	0.00	0.00	0.00	0.00	0.00	0.00
										6197	93.57	0.00	0.00	0.00	0.00	0.00	0.00
										1382	20.87	0.00	0.00	0.00	0.00	0.00	0.00
										8008	120.92	0.00	0.00	0.00	0.00	0.00	0.00
										16921	255.51	0.00	0.00	0.00	0.00	0.00	0.00
										86	1.50	0.00	0.00	0.00	0.00	0.00	0.00

TYP CHR CHD

TOTAL

NMF

WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 ~ 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TSS	TYP	A	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	TOTAL
03391	1TA0012	TSS	M	NMF	M	199312	1113892	953	14.39	14.39	0.00	0.00	0.00	0.00
			M	199401	1113812	5720	86.37	86.37	0.00	0.00	0.00	0.00		
			M	199401	1113852	8399	126.82	126.82	0.00	0.00	0.00	0.00		
			M	199401	1113856	6197	93.57	93.57	0.00	0.00	0.00	0.00		
			M	199401	1113864	1382	20.87	20.87	0.00	0.00	0.00	0.00		
			M	199401	1113872	8008	120.92	120.92	0.00	0.00	0.00	0.00		
			M	199401	1113876	16921	255.51	255.51	0.00	0.00	0.00	0.00		
			M	199401	1113880	86	1.30	1.30	0.00	0.00	0.00	0.00		
			M	199401	1113892	953	14.39	14.39	0.00	0.00	0.00	0.00		
			M	199402	1113812	5720	86.37	86.37	0.00	0.00	0.00	0.00		
			M	199402	1113852	8399	126.82	126.82	0.00	0.00	0.00	0.00		
			M	199402	1113856	6197	93.57	93.57	0.00	0.00	0.00	0.00		
			M	199402	1113864	1382	20.87	20.87	0.00	0.00	0.00	0.00		
			M	199402	1113872	8008	120.92	120.92	0.00	0.00	0.00	0.00		
			M	199402	1113876	16921	255.51	255.51	0.00	0.00	0.00	0.00		
			M	199402	1113880	86	1.30	1.30	0.00	0.00	0.00	0.00		
			M	199402	1113892	953	14.39	14.39	0.00	0.00	0.00	0.00		
			M	199403	1113812	5720	66.35	86.37	20.02-	20.02-	10.06-	30.08-		
			M	199403	1113852	8399	97.43	126.82	29.39-	29.39-	14.82-	44.21-		
			M	199403	1113856	6197	71.89	93.57	21.68-	21.68-	10.92-	32.60-		
			M	199403	1113864	1382	16.03	20.87	4.84-	4.84-	2.44-	7.28-		
			M	199403	1113872	8008	92.89	120.92	28.03-	28.03-	14.12-	42.15-		
			M	199403	1113876	16921	196.28	255.51	59.23-	59.23-	29.82-	89.05-		
			M	199403	1113880	86	1.00	1.30	0.30-	0.30-	0.18-	0.48-		
			M	199403	1113892	953	11.05	14.39	3.34-	3.34-	1.67-	5.01-		
			M	199404	1113812	5720	66.35	86.37	20.02-	20.02-	9.95-	29.97-		
			M	199404	1113852	8399	97.43	126.82	29.39-	29.39-	16.59-	43.98-		
			M	199404	1113856	6197	71.89	93.57	21.68-	21.68-	10.76-	32.46-		
			M	199404	1113864	1382	16.03	20.87	4.84-	4.84-	2.42-	7.26-		
			M	199404	1113872	8008	92.89	120.92	28.03-	28.03-	13.92-	41.95-		
			M	199404	1113876	16921	196.28	255.51	59.23-	59.23-	29.44-	88.67-		
			M	199404	1113880	86	1.00	1.30	0.30-	0.30-	0.18-	0.48-		
			M	199404	1113892	953	11.05	14.39	3.34-	3.34-	1.65-	4.99-		
			M	199405	1113812	5720	66.35	86.37	20.02-	20.02-	9.80-	29.82-		
			M	199405	1113852	8399	97.43	126.82	29.39-	29.39-	16.35-	43.74-		
			M	199405	1113856	6197	71.89	93.57	21.68-	21.68-	10.63-	32.31-		
			M	199405	1113864	1382	16.03	20.87	4.84-	4.84-	2.37-	7.21-		
			M	199405	1113872	8008	92.89	120.92	28.03-	28.03-	13.70-	41.73-		
			M	199405	1113876	16921	196.28	255.51	59.23-	59.23-	28.96-	88.19-		
			M	199405	1113880	86	1.00	1.30	0.30-	0.30-	0.18-	0.48-		
M	199405	1113892	953	11.05	14.39	3.34-	3.34-	1.62-	4.96-					
M	199406	1113812	5720	66.35	86.37	20.02-	20.02-	9.63-	29.65-					
M	199406	1113852	8399	97.43	126.82	29.39-	29.39-	14.14-	43.53-					
M	199406	1113856	6197	71.89	93.57	21.68-	21.68-	10.44-	32.12-					
M	199406	1113864	1382	16.03	20.87	4.84-	4.84-	2.33-	7.17-					
M	199406	1113872	8008	92.89	120.92	28.03-	28.03-	13.68-	41.51-					
M	199406	1113876	16921	196.28	255.51	59.23-	59.23-	28.52-	87.75-					
M	199406	1113880	86	1.00	1.30	0.30-	0.30-	0.18-	0.48-					
M	199406	1113892	953	11.05	14.39	3.34-	3.34-	1.61-	4.95-					
M	199407	1113812	5720	66.35	86.37	20.02-	20.02-	9.64-	29.66-					
M	199407	1113852	8399	97.43	126.82	29.39-	29.39-	13.88-	43.27-					
M	199407	1113856	6197	71.89	93.57	21.68-	21.68-	10.23-	31.91-					

REFUND REPORT
 RP93-109 REFUND DOCKET RP93-109
 REFUND PERIOD 11/01/1993 - 07/31/1995
 LEVEL: CONTRACT

CUST	CONTRACT	RSC	TSS	TYPE	CHR	ACC	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
03391	1TA0012	TSS		M	RES	M	199403	1113892	953	2,386.41	2,343.43	42.98	42.98	21.64	64.62
				P	RES	M	199403	1999000	16424	97,134.82	91,726.40	5,408.42	5,408.42	2,723.82	8,132.24
				M	RES	M	199404	1113812	5720	14,323.45	14,065.48	257.97	257.97	126.15	384.12
				M	RES	M	199404	1113852	8399	21,031.94	20,653.14	378.80	378.80	188.17	566.97
				M	RES	M	199404	1113856	6197	15,517.91	15,238.42	279.49	279.49	138.87	418.36
				M	RES	M	199404	1113864	1382	3,460.67	3,398.34	62.33	62.33	30.95	93.28
				M	RES	M	199404	1113872	8008	20,052.83	19,691.67	361.16	361.16	179.39	540.55
				M	RES	M	199404	1113876	16921	42,371.88	41,608.74	763.14	763.14	379.14	1,142.28
				M	RES	M	199404	1113880	86	215.35	211.47	3.88	3.88	1.94	5.82
				M	RES	M	199404	1113892	953	2,386.41	2,343.43	42.98	42.98	21.36	64.34
				P	RES	M	199404	1999000	16424	97,134.82	91,726.40	5,408.42	5,408.42	2,686.76	8,095.18
				M	RES	M	199405	1113812	5720	14,323.45	14,065.48	257.97	257.97	126.14	384.11
				M	RES	M	199405	1113852	8399	21,031.94	20,653.14	378.80	378.80	185.23	564.03
				M	RES	M	199405	1113856	6197	15,517.91	15,238.42	279.49	279.49	136.64	416.13
				M	RES	M	199405	1113864	1382	3,460.67	3,398.34	62.33	62.33	30.43	92.76
				M	RES	M	199405	1113872	8008	20,052.83	19,691.67	361.16	361.16	176.60	537.76
				M	RES	M	199405	1113876	16921	42,371.88	41,608.74	763.14	763.14	373.13	1,136.27
				M	RES	M	199405	1113880	86	215.35	211.47	3.88	3.88	1.90	5.78
				M	RES	M	199405	1113892	953	2,386.41	2,343.43	42.98	42.98	21.01	63.99
				P	RES	M	199405	1999000	16424	97,134.82	91,726.40	5,408.42	5,408.42	2,644.46	8,052.88
				M	RES	M	199406	1113812	5720	14,323.45	14,065.48	257.97	257.97	126.08	382.05
				M	RES	M	199406	1113852	8399	21,031.94	20,653.14	378.80	378.80	182.20	561.00
				M	RES	M	199406	1113856	6197	15,517.91	15,238.42	279.49	279.49	134.44	413.93
				M	RES	M	199406	1113864	1382	3,460.67	3,398.34	62.33	62.33	29.99	92.32
				M	RES	M	199406	1113872	8008	20,052.83	19,691.67	361.16	361.16	173.70	534.86
				M	RES	M	199406	1113876	16921	42,371.88	41,608.74	763.14	763.14	367.06	1,130.20
				M	RES	M	199406	1113880	86	215.35	211.47	3.88	3.88	1.86	5.74
				M	RES	M	199406	1113892	953	2,386.41	2,343.43	42.98	42.98	20.67	63.65
				P	RES	M	199406	1999000	16424	97,134.82	91,726.40	5,408.42	5,408.42	2,601.30	8,009.72
				M	RES	M	199407	1113812	5720	14,323.45	14,065.48	257.97	257.97	121.79	379.76
				M	RES	M	199407	1113852	8399	21,031.94	20,653.14	378.80	378.80	178.81	557.61
				M	RES	M	199407	1113856	6197	15,517.91	15,238.42	279.49	279.49	131.91	411.40
				M	RES	M	199407	1113864	1382	3,460.67	3,398.34	62.33	62.33	29.44	91.77
				M	RES	M	199407	1113872	8008	20,052.83	19,691.67	361.16	361.16	170.50	531.66
				M	RES	M	199407	1113876	16921	42,371.88	41,608.74	763.14	763.14	360.28	1,123.62
				M	RES	M	199407	1113880	86	215.35	211.47	3.88	3.88	1.82	5.70
				M	RES	M	199407	1113892	953	2,386.41	2,343.43	42.98	42.98	20.28	63.26
				P	RES	M	199407	1999000	16424	97,134.82	91,726.40	5,408.42	5,408.42	2,553.37	7,961.79
TOTAL							576810			2,035,006.14	1,880,433.81	154,572.33	154,572.33	79,372.60	233,944.93
TOTAL							8541645			2,146,654.33	1,977,360.04	169,294.29	169,294.29	87,065.11	256,359.40
TOTAL							8541645			2,146,654.33	1,977,360.04	169,294.29	169,294.29	87,065.11	256,359.40
							2302			0.69	0.46	0.23	0.23	0.15	0.58
							4043			1.21	0.81	0.40	0.40	0.21	0.61
							2693			0.81	0.54	0.27	0.27	0.17	0.44
							2242			0.67	0.45	0.22	0.22	0.00	0.22

TYPE CHR RES

RSC TSS

CONTRACT 1TA0012

2

Y267TV76
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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

[illegible]

WILLIAMS NATURAL GAS COMPANY
 REFUND REPORT
 RP93-109 REFUND DOCKET RP93-109
 REFUND PERIOD 11/01/1993 - 07/31/1995
 LEVEL: CONTRACT

Y2671V7G 04/28/99
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 LTV759C

QUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
03391	17A0576	FIS	CHR	R	ACC	(APT)							
			RES	M			758	110.97	102.48	8.49	8.49	4.26	12.75
			M		199403	1113856	169	24.74	22.85	1.89	1.89	0.98	2.87
			M		199403	1113872	980	143.47	132.50	10.97	10.97	5.53	16.50
			M		199403	1113876	2071	303.19	280.00	23.19	23.19	11.63	34.82
			M		199403	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
			M		199403	1113892	117	17.13	15.82	1.31	1.31	0.64	1.95
			P		199403	1999000	5899	863.61	797.54	66.07	66.07	33.25	99.32
			M		199404	1113812	700	102.48	94.64	7.84	7.84	3.88	11.72
			M		199404	1113852	1028	150.50	138.99	11.51	11.51	5.68	17.19
			M		199404	1113856	758	110.97	102.48	8.49	8.49	4.21	12.70
			M		199404	1113864	169	24.74	22.85	1.89	1.89	0.97	2.86
			M		199404	1113872	980	143.47	132.50	10.97	10.97	5.46	16.43
			M		199404	1113876	2071	303.19	280.00	23.19	23.19	11.50	34.69
			M		199404	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
			M		199404	1113892	117	17.13	15.82	1.31	1.31	0.64	1.95
			P		199404	1999000	5899	863.61	797.54	66.07	66.07	32.84	98.91
			M		199405	1113812	700	102.48	94.64	7.84	7.84	3.84	11.68
			M		199405	1113852	1028	150.50	138.99	11.51	11.51	5.62	17.13
			M		199405	1113856	758	110.97	102.48	8.49	8.49	4.16	12.65
			M		199405	1113864	169	24.74	22.85	1.89	1.89	0.95	2.84
			M		199405	1113872	980	143.47	132.50	10.97	10.97	5.38	16.35
			M		199405	1113876	2071	303.19	280.00	23.19	23.19	11.37	34.56
			M		199405	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
			M		199405	1113892	117	17.13	15.82	1.31	1.31	0.63	1.94
			P		199405	1999000	5899	863.61	797.54	66.07	66.07	32.31	98.38
			M		199406	1113812	700	102.48	94.64	7.84	7.84	3.76	11.60
			M		199406	1113852	1028	150.50	138.99	11.51	11.51	5.54	17.05
			M		199406	1113856	758	110.97	102.48	8.49	8.49	4.11	12.60
			M		199406	1113864	169	24.74	22.85	1.89	1.89	0.94	2.83
			M		199406	1113872	980	143.47	132.50	10.97	10.97	5.32	16.29
			M		199406	1113876	2071	303.19	280.00	23.19	23.19	11.14	34.33
			M		199406	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
			M		199406	1113892	117	17.13	15.82	1.31	1.31	0.63	1.94
			P		199406	1999000	5899	863.61	797.54	66.07	66.07	31.78	97.85
			M		199407	1113812	700	102.48	94.64	7.84	7.84	3.72	11.56
			M		199407	1113852	1028	150.50	138.99	11.51	11.51	5.44	16.95
			M		199407	1113856	758	110.97	102.48	8.49	8.49	4.04	12.53
			M		199407	1113864	169	24.74	22.85	1.89	1.89	0.93	2.82
			M		199407	1113872	980	143.47	132.50	10.97	10.97	5.17	16.14
			M		199407	1113876	2071	303.19	280.00	23.19	23.19	10.93	34.12
			M		199407	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
			M		199407	1113892	117	17.13	15.82	1.31	1.31	0.61	1.92
			P		199407	1999000	5899	863.61	797.54	66.07	66.07	31.20	97.27

TYP CHR RES
 TOTAL

105597	15,459.30	14,276.79	1,182.51	594.56	1,777.07
700	2,006.90	1,721.30	285.60	152.27	437.87
1028	2,947.28	2,527.85	419.43	223.59	643.02
758	2,173.19	1,863.92	309.27	164.87	474.14
169	484.52	415.57	68.95	36.76	105.71
980	2,809.66	2,409.82	399.84	213.14	612.98

REFUND REPORT
 RP93-109 REFUND DOCKET RP93-109
 REFUND PERIOD 11/01/1993 - 07/31/1995
 LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTM	BILLED	SETTLED	REVENUE	BILLED -	REFUND	INTEREST	REFUND
03391	17A0576	FTS	CHR	R	ACC	(APT)		REVENUE	REVENUE		SETTLED	AMOUNT		TOTAL
			RES	M	199311	1113876	2071	5,937.56	5,092.59	27.05	844.97	844.97	450.48	1,295.45
			M	M	199311	1113880	11	31.54	27.05		4.49	4.49	2.41	6.90
			M	M	199311	1113892	117	335.44	287.70		47.74	47.74	25.44	73.18
			P	P	199311	1999000	5899	36,446.38	32,945.33		3,501.05	3,501.05	1,866.33	5,367.38
			M	M	199312	1113812	700	2,006.90	1,721.30		285.60	285.60	149.51	435.11
			M	M	199312	1113852	1028	2,947.28	2,527.85		419.43	419.43	219.64	639.07
			M	M	199312	1113856	758	2,173.19	1,863.92		309.27	309.27	161.98	471.25
			M	M	199312	1113864	169	484.52	415.57		68.95	68.95	36.09	105.04
			M	M	199312	1113872	980	2,809.66	2,409.82		399.84	399.84	209.35	609.19
			M	M	199312	1113876	2071	5,937.56	5,092.59		844.97	844.97	442.45	1,287.42
			M	M	199312	1113880	11	31.54	27.05		4.49	4.49	2.34	6.83
			M	M	199312	1113892	117	335.44	287.70		47.74	47.74	25.02	72.76
			P	P	199312	1999000	5899	36,446.38	32,945.33		3,501.05	3,501.05	1,833.26	5,334.31
			M	M	199401	1113812	700	2,006.90	1,721.30		285.60	285.60	148.02	433.62
			M	M	199401	1113852	1028	2,947.28	2,527.85		419.43	419.43	217.34	636.77
			M	M	199401	1113856	758	2,173.19	1,863.92		309.27	309.27	160.29	469.56
			M	M	199401	1113864	169	484.52	415.57		68.95	68.95	35.74	104.69
			M	M	199401	1113872	980	2,809.66	2,409.82		399.84	399.84	207.17	607.01
			M	M	199401	1113876	2071	5,937.56	5,092.59		844.97	844.97	437.85	1,282.82
			M	M	199401	1113880	11	31.54	27.05		4.49	4.49	2.32	6.81
			M	M	199401	1113892	117	335.44	287.70		47.74	47.74	24.74	72.48
			P	P	199401	1999000	5899	36,446.38	32,945.33		3,501.05	3,501.05	1,814.14	5,315.19
			M	M	199402	1113812	700	2,006.90	1,721.30		285.60	285.60	146.09	431.69
			M	M	199402	1113852	1028	2,947.28	2,527.85		419.43	419.43	214.50	633.93
			M	M	199402	1113856	758	2,173.19	1,863.92		309.27	309.27	158.18	467.45
			M	M	199402	1113864	169	484.52	415.57		68.95	68.95	35.27	104.22
			M	M	199402	1113872	980	2,809.66	2,409.82		399.84	399.84	204.51	604.35
			M	M	199402	1113876	2071	5,937.56	5,092.59		844.97	844.97	432.17	1,277.14
			M	M	199402	1113880	11	31.54	27.05		4.49	4.49	2.29	6.78
			M	M	199402	1113892	117	335.44	287.70		47.74	47.74	24.61	72.15
			P	P	199402	1999000	5899	36,446.38	32,945.33		3,501.05	3,501.05	1,790.71	5,291.76
			M	M	199403	1113812	700	1,752.87	1,721.30		31.57	31.57	15.87	47.44
			M	M	199403	1113852	1028	2,574.21	2,527.85		46.36	46.36	23.36	69.72
			M	M	199403	1113856	758	1,898.11	1,863.92		34.19	34.19	17.25	51.44
			M	M	199403	1113864	169	423.19	415.57		7.62	7.62	3.84	11.46
			M	M	199403	1113872	980	2,454.02	2,409.82		44.20	44.20	22.27	66.47
			M	M	199403	1113876	2071	5,185.99	5,092.59		93.40	93.40	47.05	140.45
			M	M	199403	1113880	11	27.55	27.05		0.50	0.50	0.21	0.71
			M	M	199403	1113892	117	292.98	287.70		5.28	5.28	2.66	7.94
			P	P	199403	1999000	5899	34,887.87	32,945.33		1,942.54	1,942.54	978.30	2,920.84
			M	M	199404	1113812	700	1,752.87	1,721.30		31.57	31.57	15.68	47.25
			M	M	199404	1113852	1028	2,574.21	2,527.85		46.36	46.36	23.02	69.38
			M	M	199404	1113856	758	1,898.11	1,863.92		34.19	34.19	16.96	51.15
			M	M	199404	1113864	169	423.19	415.57		7.62	7.62	3.78	11.40
			M	M	199404	1113872	980	2,454.02	2,409.82		44.20	44.20	21.95	66.15
			M	M	199404	1113876	2071	5,185.99	5,092.59		93.40	93.40	46.38	139.78
			M	M	199404	1113880	11	27.55	27.05		0.50	0.50	0.19	0.69
			M	M	199404	1113892	117	292.98	287.70		5.28	5.28	2.62	7.90
			P	P	199404	1999000	5899	34,887.87	32,945.33		1,942.54	1,942.54	965.03	2,907.57
			M	M	199405	1113812	700	1,752.87	1,721.30		31.57	31.57	15.44	47.01
			M	M	199405	1113852	1028	2,574.21	2,527.85		46.36	46.36	22.67	69.03
			M	M	199405	1113856	758	1,898.11	1,863.92		34.19	34.19	16.71	50.90

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WILLIAMS NATURAL GAS COMPANY
 REFUND REPORT
 RP93-109 REFUND DOCKET RP93-109
 REFUND PERIOD 11/01/1993 - 07/31/1995
 LEVEL: CONTRACT

CUST	CONTRACT	RSC	FTS	TYP	A	DTE	LOCATION	ACC	APR	PTH	BILLED	REVENUE	SETTLED	REVENUE	SETTLED	BILLED	AMOUNT	INTEREST	REFUND	TOTAL
03391	1TA0576			RES	M						423.19	415.57	7.62	415.57	7.62	415.57	7.62	3.74	11.36	
				M	199405	1113864				169	2,454.02	2,409.82	44.20	2,409.82	44.20	2,409.82	44.20	21.57	65.77	
				M	199405	1113872				980	5,185.99	5,092.59	93.40	5,092.59	93.40	5,092.59	93.40	45.67	139.07	
				M	199405	1113876				2071	27.55	27.05	0.50	27.05	0.50	27.05	0.50	0.19	0.69	
				M	199405	1113880				11	292.98	287.70	5.28	287.70	5.28	287.70	5.28	2.60	7.88	
				M	199405	1113892				117	34,887.87	32,945.33	1,942.54	32,945.33	1,942.54	32,945.33	1,942.54	949.82	2,892.36	
				P	199405	1999000				5899	1,752.87	1,721.30	31.57	1,721.30	31.57	1,721.30	31.57	15.19	46.76	
				M	199406	1113812				700	2,574.21	2,527.85	46.36	2,527.85	46.36	2,527.85	46.36	22.31	68.67	
				M	199406	1113852				1028	1,898.11	1,863.92	34.19	1,863.92	34.19	1,863.92	34.19	16.44	50.63	
				M	199406	1113856				758	423.19	415.57	7.62	415.57	7.62	415.57	7.62	3.66	11.28	
				M	199406	1113864				169	2,454.02	2,409.82	44.20	2,409.82	44.20	2,409.82	44.20	21.28	65.48	
				M	199406	1113872				980	5,185.99	5,092.59	93.40	5,092.59	93.40	5,092.59	93.40	44.91	138.31	
				M	199406	1113876				2071	27.55	27.05	0.50	27.05	0.50	27.05	0.50	0.19	0.69	
				M	199406	1113880				11	292.98	287.70	5.28	287.70	5.28	287.70	5.28	2.56	7.84	
				M	199406	1113892				117	34,887.87	32,945.33	1,942.54	32,945.33	1,942.54	32,945.33	1,942.54	934.32	2,876.86	
				P	199406	1999000				5899	1,752.87	1,721.30	31.57	1,721.30	31.57	1,721.30	31.57	14.91	46.68	
				M	199407	1113812				700	2,574.21	2,527.85	46.36	2,527.85	46.36	2,527.85	46.36	21.86	68.22	
				M	199407	1113852				1028	1,898.11	1,863.92	34.19	1,863.92	34.19	1,863.92	34.19	16.14	50.33	
				M	199407	1113856				758	423.19	415.57	7.62	415.57	7.62	415.57	7.62	3.57	11.19	
				M	199407	1113864				169	2,454.02	2,409.82	44.20	2,409.82	44.20	2,409.82	44.20	20.88	65.08	
				M	199407	1113872				980	5,185.99	5,092.59	93.40	5,092.59	93.40	5,092.59	93.40	44.11	137.51	
				M	199407	1113876				2071	27.55	27.05	0.50	27.05	0.50	27.05	0.50	0.18	0.68	
				M	199407	1113880				11	292.98	287.70	5.28	287.70	5.28	287.70	5.28	2.52	7.80	
				M	199407	1113892				117	34,887.87	32,945.33	1,942.54	32,945.33	1,942.54	32,945.33	1,942.54	917.11	2,859.65	
				P	199407	1999000				5899										
TOTAL				RVA	M	199401	1113876			105597	460,173.83	425,620.17	34,553.66	425,620.17	34,553.66	425,620.17	34,553.66	17,657.64	52,211.30	
				P	199401	1999000				0	600.30	0.00	600.30	0.00	600.30	0.00	600.30	311.06	911.36	
				M	199402	1113852				0	190.01	0.00	190.01	0.00	190.01	0.00	190.01	98.47	288.48	
				M	199402	1113856				0	190.74	0.00	190.74	0.00	190.74	0.00	190.74	97.54	288.28	
				M	199402	1113856				0	117.21	0.00	117.21	0.00	117.21	0.00	117.21	59.92	177.13	
TOTAL										0	102.34	0.00	102.34	0.00	102.34	0.00	102.34	55.13	157.47	
TOTAL				RSC	FTS					1211788	483,022.21	446,006.74	37,017.47	446,006.74	37,017.47	446,006.74	37,017.47	18,913.56	55,931.03	
TOTAL				CONTRACT	1TA0576					1211788	483,022.21	446,006.74	37,017.47	446,006.74	37,017.47	446,006.74	37,017.47	18,913.56	55,931.03	
				1TA0694	ITS					1211788	483,022.21	446,006.74	37,017.47	446,006.74	37,017.47	446,006.74	37,017.47	18,913.56	55,931.03	
				M	199311	1630204				33882	172.80	155.86	16.94	155.86	16.94	155.86	16.94	9.05	25.99	
				M	199311	1999000				7794	39.75	35.85	3.90	35.85	3.90	35.85	3.90	2.09	5.99	
				M	199312	1630204				1391	7.09	6.40	0.69	6.40	0.69	6.40	0.69	0.38	1.07	
				P	199312	1999000				34111	173.97	156.91	17.06	156.91	17.06	156.91	17.06	8.96	26.02	
				P	199401	1999000				68844	310.31	279.88	30.43	279.88	30.43	279.88	30.43	15.77	46.20	
				M	199402	1630204				3127	15.95	14.36	1.57	14.36	1.57	14.36	1.57	0.81	2.38	
				M	199403	1630204				1124	5.73	5.17	0.56	5.17	0.56	5.17	0.56	0.25	0.81	
				M	199404	1630204				12489	63.69	57.45	6.24	57.45	6.24	57.45	6.24	3.10	9.34	

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WILLIAMS NATURAL GAS COMPANY
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REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

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CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTN	BILLED	SETTLED	BILLED -	REFUND	INTEREST	REFUND
				R	ACC	(APT)		REVENUE	REVENUE	SETTLED	AMOUNT		TOTAL
TOTAL													
03391	1TA0694	ITS	CHD	M	199311	1630204	154762	789.29	711.90	77.39	77.39	40.41	117.80
			P		199311	1999000	33882	3,659.26	3,147.64	511.62	511.62	272.76	784.38
			M		199312	1630204	7794	1,727.15	1,523.73	203.42	203.42	108.43	311.85
			P		199312	1999000	1391	150.23	129.22	21.01	21.01	10.99	32.00
			P		199401	1999000	34111	7,559.00	6,668.70	890.30	890.30	466.20	1,356.50
			M		199402	1630204	60844	13,483.03	11,895.01	1,588.02	1,588.02	822.88	2,410.90
			M		199403	1630204	3127	337.72	290.50	47.22	47.22	24.15	71.37
			M		199404	1630204	1124	107.68	104.42	3.26	3.26	1.64	4.90
			M		199404	1630204	12489	1,196.45	1,160.23	36.22	36.22	18.01	54.23

TOTAL			TYP	CHR	CHD			20,220.52	24,919.45	3,301.07	3,301.07	1,725.06	5,026.13
			RSC	ITS				29,009.81	25,631.35	3,378.46	3,378.46	1,765.47	5,143.93

TOTAL			CONTRACT	1TA0694				29,009.81	25,631.35	3,378.46	3,378.46	1,765.47	5,143.93
			1TA0695	ITS	CHB	M	199311	1009026	9.11	0.99	0.99	0.49	1.48
					M		1980	10.10	4.81	0.52	0.52	0.23	0.75
					M		1045	5.33	53.86	1.07	1.07	0.48	1.55
					M		11708	59.72	6.21	0.68	0.68	0.38	1.06
					M		2154	10.98	12.54	1.36	1.36	0.69	2.05
					M		1351	6.89	33.83	3.68	3.68	1.94	5.62
					M		2725	13.90	4.17	0.46	0.46	0.21	0.67
					M		7354	37.51	8.01	0.87	0.87	0.44	1.31
					M		907	4.63	8.31	0.91	0.91	0.47	1.38
					M		1741	8.88	32.89	3.58	3.58	1.86	5.44
					M		1807	9.22	198.45	21.57	21.57	11.49	33.06
					M		7150	36.47	5.44	0.59	0.59	0.27	0.86
					P		43142	220.02					
					P		1182	6.03					

TOTAL			TYP	CHR	CHB			429.68	387.54	42.14	42.14	21.98	64.12
			CHD	M	199311	1009026	84246	213.84	183.94	29.90	29.90	15.95	45.85
					M		1980	112.86	97.08	15.78	15.78	8.41	24.19
					M		1045	1,264.46	1,087.68	176.78	176.78	94.29	271.07
					M		11708	232.63	200.10	32.53	32.53	17.34	49.87
					M		2154	145.91	125.51	20.40	20.40	10.86	31.26
					M		1351	294.30	253.15	41.15	41.15	21.94	63.09
					M		2725	794.23	683.19	111.04	111.04	59.16	170.20
					M		7354	97.96	84.26	13.70	13.70	7.29	20.99
					M		907	188.03	161.74	26.29	26.29	14.03	40.32
					M		1741	195.16	167.87	27.29	27.29	14.53	41.82
					M		1807	772.20	664.24	107.96	107.96	57.51	165.47
					P		7150	9,560.27	8,434.26	1,126.01	1,126.01	600.23	1,726.24
					P		43142	243.26	231.08	12.18	12.18	6.06	18.24
					P		1182						

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WILLIAMS NATURAL GAS COMPANY

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REFUND REPORT
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REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	CHR	CHD	TYP	A	DTE	LOCATION	PTH	BILLED	SETTLED	BILLED -	REFUND	REFUND	REFUND
									(ACT)		REVENUE	REVENUE	SETTLED	AMOUNT	INTEREST	TOTAL
TOTAL										84246	24,215.21	12,374.10	1,741.01	1,741.01	927.60	2,668.61
										168492	14,544.79	12,761.64	1,783.15	1,783.15	949.58	2,732.73
										168492	14,544.79	12,761.64	1,783.15	1,783.15	949.58	2,732.73
										1695963	2,991,232.12	2,773,974.54	217,257.58	217,257.58	111,812.13	329,069.71

RSC ITS

CONTRACT 17A0695

CUST 03391

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTH	BILLED		SETTLED	BILLED -		REFUND	REFUND	TOTAL
								CHG	R		CHG	R			
07921	IRA0787	FTS	CHR	P	199501	1999000	30780	3.08	6.16		3.08	0.00	0.00		0.00
TYP CHR CHB															
TOTAL			CHD	P	199501	1999000	30780	3.08	6.16		3.08	0.00	0.00		0.00
							30780	347.81	366.28		18.47	0.00	0.00		0.00
TYP CHR CHD															
TOTAL			REV	P	199501	1999000	30780	347.81	366.28		18.47	0.00	0.00		0.00
							30780	4,733.96	5,528.09		794.13	0.00	0.00		0.00
TYP CHR REV															
TOTAL			RVB	P	199501	1999000	30780	4,733.96	5,528.09		794.13	0.00	0.00		0.00
							30780	147.74	132.35		15.39	0.00	0.00		0.00
TYP CHR RVB															
TOTAL							30780	147.74	132.35		15.39	0.00	0.00		0.00
RSC FTS															
TOTAL							123120	5,232.59	6,032.88		800.29	0.00	0.00		0.00
CONTRACT IRA0787															
TOTAL	ISA0011	TSS	INJ				123120	5,232.59	6,032.88		800.29	0.00	0.00		0.00
							92766	640.09	640.09		0.00	0.00	0.00		0.00
							173980	1,200.46	1,200.46		0.00	0.00	0.00		0.00
							131685	908.63	908.63		0.00	0.00	0.00		0.00
							118073	814.70	814.70		0.00	0.00	0.00		0.00
TYP CHR INJ															
TOTAL			REC				516504	3,563.88	3,563.88		0.00	0.00	0.00		0.00
							657298	21,625.10	20,507.70		1,117.40	0.00	595.65		1,713.05
							497841	16,378.97	15,532.64		846.33	0.00	443.16		1,289.49
							261249	8,595.09	8,150.97		444.12	0.00	230.13		674.25
							71258	2,344.39	2,223.25		121.14	0.00	61.97		183.11
							37668	1,160.17	1,175.24		15.07	0.00	7.57		22.64
							126844	3,906.80	3,957.53		50.73	0.00	25.21		75.94
							294091	9,175.64	9,175.64		117.64	0.00	57.55		175.19
							420475	12,950.63	13,118.82		168.19	0.00	80.90		249.09
							534442	16,460.81	16,674.59		213.78	0.00	100.94		314.72
							534442	16,460.81	16,674.59		213.78	0.00	99.09		312.87
TYP CHR REC															
TOTAL			RED				3435608	108,940.77	107,190.97		1,749.80	0.00	959.65		2,709.45
							21201	12,067.61	11,452.78		614.83	0.00	327.76		942.59
							21201	12,067.61	11,452.78		614.83	0.00	321.94		936.77
							21201	12,067.61	11,452.78		614.83	0.00	318.58		933.41
							21201	12,067.61	11,452.78		614.83	0.00	314.49		929.32

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	DTH	BILLED	SETTLED	BILLED -	REFUND	INTEREST	REFUND
07921	1SA0017	TSS	CHR	R	ACC	(APT)		REVENUE	REVENUE	SETTLED	AMOUNT		TOTAL
			RED		199412		52978	28,279.66	27,522.07	757.59	757.59	325.69	1,083.28
					199501		52978	28,279.66	27,522.07	757.59	757.59	317.87	1,075.46
					199502		52978	28,279.66	27,522.07	757.59	757.59	311.65	1,069.24
					199503		52978	28,279.66	27,522.07	757.59	757.59	303.56	1,061.15
					199504		52978	28,279.66	27,522.07	757.59	757.59	296.60	1,054.19
					199505		52978	28,279.66	27,522.07	757.59	757.59	288.89	1,046.48
					199506		52978	28,279.66	27,522.07	757.59	757.59	280.85	1,038.44

TYP CHR RED													
TOTAL							502758	311,076.26	307,129.37	3,946.89	3,946.89	1,513.05	5,459.94
							5102	35.20	35.20	0.00	0.00	0.00	0.00
							325107	2,243.24	2,243.24	0.00	0.00	0.00	0.00
							393222	2,713.23	2,673.91	39.32	39.32	16.88	56.20
							167609	1,156.50	1,139.74	16.76	16.76	7.04	23.80
							621957	4,291.50	4,229.31	62.19	62.19	25.59	87.78
							240379	1,656.62	1,634.58	24.04	24.04	9.62	33.66

TYP CHR MDR													
TOTAL							1753376	12,090.29	11,955.98	142.31	142.31	59.13	201.44
RSC TSS							11809265	586,810.06	580,159.25	4,650.81	4,650.81	1,715.17	6,365.98

CONTRACT 1SA0017													
TOTAL							11809265	586,810.06	580,159.25	4,650.81	4,650.81	1,715.17	6,365.98
							319879	2,207.17	2,175.18	31.99	31.99	11.54	43.53

TYP CHR INJ													
TOTAL							319879	2,207.17	2,175.18	31.99	31.99	11.54	43.53
							1105000	36,034.00	33,150.00	884.00	884.00	319.20	1,203.20

TYP CHR REC													
TOTAL							1105000	36,034.00	33,150.00	884.00	884.00	319.20	1,203.20
							44965	24,002.32	23,359.32	643.00	643.00	232.18	875.18

TYP CHR RED													
TOTAL							44965	24,002.32	23,359.32	643.00	643.00	232.18	875.18
RSC TSS							1469844	60,243.49	58,684.50	1,558.99	1,558.99	562.92	2,121.91

CONTRACT 1SA0557													
TOTAL							1469844	60,243.49	58,684.50	1,558.99	1,558.99	562.92	2,121.91
							607215	5,578.85	4,927.30	651.55	651.55	347.37	998.92
							306585	5,641.16	3,648.36	1,992.80	1,992.80	1,062.30	3,055.10
							447903	6,136.27	5,419.63	716.64	716.64	375.25	1,091.89
							296652	5,458.40	3,530.16	1,928.24	1,928.24	1,009.69	2,937.93

WILLIAMS NATURAL GAS COMPANY

REFUND REPORT

RP93-109 REFUND DOCKET RP93-109

REFUND PERIOD 11/01/1993 - 07/31/1995

LEVEL: CONTRACT

CUST#	CONTRACT#	RSC	TSS	TYP A	DTE	ACC	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	11A0011			CHD	P	199401	1096108	587798	8,052.83	7,112.36	940.47	940.47	687.35	1,427.82
				P	199401	1999000		358179	6,222.49	4,024.33	2,198.16	2,198.16	1,139.08	3,337.24
				M	199402	1096108		480827	6,587.33	5,818.01	769.32	769.32	393.49	1,162.81
				P	199402	1999000		300472	5,528.68	3,575.62	1,953.06	1,953.06	998.97	2,952.03
				M	199403	1096108		263589	3,532.09	3,189.43	342.66	342.66	172.56	515.22
				P	199403	1999000		228185	2,578.49	2,715.40	136.91	136.91	68.93	205.84
				M	199404	1096108		233140	3,124.08	2,820.99	303.09	303.09	150.56	453.65
				P	199404	1999000		327892	3,705.18	3,901.91	196.73	196.73	97.72	294.45
				M	199405	1096108		133432	1,787.99	1,614.53	173.46	173.46	84.79	258.25
				P	199405	1999000		311394	3,518.75	3,705.59	186.84	186.84	91.36	278.20
				M	199406	1096108		88457	1,185.32	1,070.33	114.99	114.99	55.30	170.29
				P	199406	1999000		222348	2,512.53	2,645.94	133.41	133.41	64.19	197.60
				M	199407	1096108		95217	1,275.91	1,152.13	123.78	123.78	58.43	182.21
				P	199407	1999000		207935	2,349.66	2,474.43	124.77	124.77	58.90	183.67

TYP CHR CHD

TOTAL		5277220	74,776.01	63,346.45	11,429.56	11,429.56	5,954.04	17,383.60
MMF	M	199311 1096108	31801	480.20	0.00	0.00	0.00	0.00
	M	199312 1096108	31801	480.20	0.00	0.00	0.00	0.00
	M	199401 1096108	31801	480.20	0.00	0.00	0.00	0.00
	M	199402 1096108	31801	480.20	0.00	0.00	0.00	0.00
	M	199403 1096108	31801	368.89	111.31-	111.31-	56.05-	167.36-
	M	199404 1096108	31801	368.89	111.31-	111.31-	55.33-	166.64-
	M	199405 1096108	31801	368.89	111.31-	111.31-	54.44-	165.75-
	M	199406 1096108	31801	368.89	111.31-	111.31-	53.52-	164.83-
	M	199407 1096108	31801	368.89	111.31-	111.31-	52.53-	163.84-

TYP CHR NDF

RES	M	199311	1096108	286209	3,765.25	4,321.80	556.55-	556.55-	271.87-	828.42-
P	199311	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199312	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199312	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199401	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199401	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199402	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199402	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199403	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199403	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199404	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199404	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199405	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199405	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199406	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199406	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
M	199407	1096108	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44
P	199407	1999000	10957	31801	91,173.47	78,198.66	12,974.81	12,974.81	6,916.63	19,891.44

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	ACC	DTE	LOCATION	DTM	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
TYP	A	CHR	R	RES	(APT)							
TOTAL						384822	1,357,654.65	1,254,531.69	103,122.96	103,122.96	52,953.60	156,076.56
TOTAL						5948251	1,436,195.91	1,322,199.94	113,995.97	113,995.97	58,635.77	172,631.74
CONTRACT ITA0011												
TOTAL						5948251	1,436,195.91	1,322,199.94	113,995.97	113,995.97	58,635.77	172,631.74
07921	ITA0017	TSS	CHD	M	199408 1013745	5938	79.57	71.85	7.72	7.72	3.59	11.31
				M	199408 1096108	99043	1,327.18	1,198.42	128.76	128.76	59.69	188.45
				M	199408 1113812	10491	140.58	126.94	13.64	13.64	6.32	19.96
				M	199408 1113852	20508	274.81	248.15	26.66	26.66	12.32	38.98
				M	199408 1113856	10135	135.81	122.63	13.18	13.18	6.10	19.28
				M	199408 1113864	3203	42.92	38.76	4.16	4.16	1.91	6.07
				M	199408 1113872	13106	175.62	158.58	17.04	17.04	7.91	24.95
				M	199408 1113876	33484	448.69	405.16	43.53	43.53	20.18	63.71
				M	199408 1113880	206	2.76	2.49	0.27	0.27	0.17	0.44
				M	199408 1113892	1369	18.34	16.56	1.78	1.78	0.80	2.58
				M	199408 1135533	19745	264.58	238.91	25.67	25.67	11.91	37.58
				M	199408 1630204	65170	873.28	788.56	84.72	84.72	39.26	123.98
				P	199408 1999000	642450	7,259.68	7,645.16	385.48	385.48	178.67	564.15
				M	199409 1096108	109240	1,463.82	1,321.80	142.02	142.02	64.72	206.74
				M	199409 1113812	13093	175.45	158.43	17.02	17.02	10.49	27.51
				M	199409 1113852	17630	236.24	213.32	22.92	22.92	7.94	25.33
				M	199409 1113856	13373	179.20	161.81	17.39	17.39	2.24	7.17
				M	199409 1113864	3788	50.76	45.83	4.93	4.93	2.24	7.17
				M	199409 1113872	16695	223.71	202.01	21.70	21.70	9.98	31.68
				M	199409 1113876	41984	562.58	508.01	54.57	54.57	24.89	79.46
				M	199409 1113880	553	7.41	6.69	0.72	0.72	1.07	1.84
				M	199409 1113892	1757	23.54	21.26	2.28	2.28	0.99	3.27
				M	199409 1135533	40499	542.69	490.04	52.65	52.65	24.00	76.65
				M	199409 1630204	21592	289.33	261.26	28.07	28.07	12.79	40.86
				P	199409 1999000	378150	4,273.10	4,499.99	226.89	226.89	103.42	330.31
				M	199410 1013745	247	3.31	2.99	0.32	0.32	0.17	0.49
				M	199410 1096108	155745	2,086.98	1,884.51	202.47	202.47	90.58	293.05
				M	199410 1113812	21371	286.37	258.59	27.78	27.78	12.40	40.18
				M	199410 1113852	41013	549.57	496.26	53.31	53.31	23.83	77.14
				M	199410 1113856	19605	262.71	237.22	25.49	25.49	11.39	36.88
				M	199410 1113864	6329	84.81	76.58	8.23	8.23	3.69	11.92
				M	199410 1113872	30035	402.47	363.42	39.05	39.05	17.47	56.52
				M	199410 1113876	72071	965.75	872.06	93.69	93.69	41.89	135.58
				M	199410 1113880	333	4.46	4.03	0.43	0.43	0.17	0.60
				M	199410 1113892	3530	47.30	42.71	4.59	4.59	2.04	6.63
				M	199410 1135533	69500	931.30	840.95	90.35	90.35	40.40	130.75
				M	199410 1630204	5164	69.20	62.48	6.72	6.72	3.00	9.72
				P	199410 1999000	463724	5,466.08	5,756.32	290.24	290.24	129.86	420.10
				M	199411 1096108	306700	4,109.78	3,711.07	398.71	398.71	174.89	573.60
				M	199411 1113812	44176	591.96	534.53	57.43	57.43	25.20	82.63
				M	199411 1113852	71470	957.70	864.79	92.91	92.91	40.77	133.68
				M	199411 1113856	41351	554.10	500.35	53.75	53.75	23.59	77.34
				M	199411 1113864	12800	171.52	154.88	16.64	16.64	7.29	23.93
				M	199411 1113872	61727	827.14	746.90	80.24	80.24	35.19	115.43

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

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CUST	CONTRACT	ESC	TYP	A	DTE	LOC	DTN	BILLED	SETTLED	BILLED -	REFUND	INTEREST	REFUND
07921	17A0017	TSS	CHR	R	ACC	(APT)		REVENUE	REVENUE	SETTLED	AMOUNT		TOTAL
M			CMD				138340	1,853.76	1,673.91	179.85	179.85	78.90	258.75
M					199411	1113876	1222	16.37	14.79	1.58	1.58	0.70	2.28
M					199411	1113880	7891	105.74	95.48	10.26	10.26	4.52	14.78
M					199411	1135533	269	3.60	3.25	0.35	0.35	0.17	0.52
P					199411	1999000	383220	4,330.39	4,560.32	229.93-	229.93-	100.85-	330.78-
M					199412	1096108	490567	6,573.60	5,935.86	637.74	637.74	274.16	911.90
M					199412	1113812	74834	1,002.78	905.49	97.29	97.29	41.83	139.12
M					199412	1113852	101458	1,359.54	1,227.64	131.90	131.90	56.72	188.62
M					199412	1113856	64270	861.22	777.67	83.55	83.55	35.93	119.48
M					199412	1113864	19778	265.03	239.31	25.72	25.72	11.06	36.78
M					199412	1113872	111312	1,491.58	1,346.88	144.70	144.70	62.19	206.89
M					199412	1113876	214480	2,874.03	2,595.21	278.82	278.82	119.88	396.70
M					199412	1113880	2136	28.62	25.85	2.77	2.77	1.21	3.98
M					199412	1113892	12648	169.48	153.04	16.44	16.44	7.08	23.52
M					199412	1135533	16000	241.20	217.80	23.40	23.40	10.07	33.47
M					199412	1630204	2200	29.48	26.62	2.86	2.86	1.24	4.10
P					199412	1999000	735978	8,293.95	8,734.34	440.39-	440.39-	189.35-	629.74-
M					199501	1013745	48	0.64	0.58	0.06	0.06	0.00	0.06
M					199501	1096108	562959	7,543.65	6,811.80	731.85	731.85	307.07	1,038.92
M					199501	1113812	98801	1,323.93	1,195.49	128.44	128.44	53.89	182.33
M					199501	1113852	140014	1,876.19	1,694.17	182.02	182.02	76.37	258.39
M					199501	1113856	89637	1,201.14	1,084.61	116.53	116.53	48.91	165.44
M					199501	1113864	25908	347.17	313.49	33.68	33.68	14.15	47.83
M					199501	1113872	137503	1,842.54	1,663.79	178.75	178.75	74.99	253.74
M					199501	1113876	255941	3,429.61	3,096.89	332.72	332.72	139.63	472.35
M					199501	1113880	2453	32.87	29.68	3.19	3.19	1.31	4.50
M					199501	1113892	15659	209.83	189.47	20.36	20.36	8.55	28.91
P					199501	1999000	848811	9,591.56	10,100.85	509.29-	509.29-	213.70-	722.99-
M					199502	1096108	453320	6,074.49	5,485.17	589.32	589.32	242.43	831.75
M					199502	1113812	74956	1,004.41	906.97	97.44	97.44	60.09	137.53
M					199502	1113852	108123	1,448.85	1,308.29	140.56	140.56	57.80	198.36
M					199502	1113856	71668	960.35	867.18	93.17	93.17	38.33	131.50
M					199502	1113864	19466	260.84	235.54	25.30	25.30	10.42	35.72
M					199502	1113872	96579	1,294.16	1,168.61	125.55	125.55	51.64	177.19
M					199502	1113876	223810	2,999.05	2,708.10	290.95	290.95	119.65	410.60
M					199502	1113880	2138	28.65	25.87	2.78	2.78	1.13	3.91
M					199502	1113892	11831	158.54	143.16	15.38	15.38	6.34	21.72
M					199502	1630204	779	10.44	9.43	1.01	1.01	0.40	1.41
P					199502	1999000	697849	7,885.69	8,304.40	418.71-	418.71-	172.25-	590.96-
M					199503	1096108	361661	4,846.26	4,376.10	470.16	470.16	188.39	658.55
M					199503	1113812	54867	735.22	663.89	71.33	71.33	28.57	99.90
M					199503	1113852	80340	1,076.56	972.11	104.45	104.45	41.87	146.32
M					199503	1113856	52821	707.80	639.13	68.67	68.67	27.51	96.18
M					199503	1113864	14920	199.93	180.53	19.40	19.40	7.77	27.17
M					199503	1113872	72674	879.33	793.56	85.77	85.77	37.85	132.32
M					199503	1113876	165349	2,215.68	2,000.73	214.95	214.95	86.13	301.08
M					199503	1113880	1131	15.16	13.69	1.47	1.47	0.55	2.02
M					199503	1113892	8816	118.13	106.67	11.46	11.46	4.57	16.03
M					199503	1135533	2497	33.46	30.21	3.25	3.25	1.31	4.56
M					199503	1630204	328	4.40	3.97	0.43	0.43	0.16	0.59
P					199503	1999000	470547	5,317.18	5,599.51	282.33-	282.33-	113.13-	395.46-
M					199504	1013745	38451	515.24	465.26	49.98	49.98	19.52	69.50

REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	CHS	R	ACC	BILLED	SETTLED	BILLED	SETTLED	REFUND	INTEREST	REFUND	TOTAL
07921	1TA0017	TSS				(APT)				REVENUE	REVENUE	REVENUE	REVENUE	AMOUNT			
										3,229.40	2,916.10	313.30	313.30	313.30	122.69	435.99	
										434.28	392.15	42.13	42.13	42.13	16.49	58.62	
										489.54	459.98	63.64	63.64	63.64	24.89	88.53	
										508.05	458.76	49.29	49.29	49.29	19.30	68.59	
										125.93	113.72	12.21	12.21	12.21	4.77	16.98	
										459.31	555.77	59.71	59.71	59.71	23.38	83.09	
										1,237.92	1,117.83	120.09	120.09	120.09	46.99	167.08	
										11.99	10.83	1.16	1.16	1.16	0.47	1.63	
										73.16	66.07	7.09	7.09	7.09	2.74	9.83	
										332.64	300.37	32.27	32.27	32.27	12.64	44.91	
										7,602.69	8,006.37	403.68	403.68	403.68	158.05	561.73	
										2,185.70	1,973.66	212.04	212.04	212.04	80.86	292.90	
										285.65	257.94	27.71	27.71	27.71	10.55	38.26	
										424.69	383.49	41.20	41.20	41.20	15.72	56.92	
										241.55	218.11	23.44	23.44	23.44	8.94	32.38	
										82.91	74.86	8.05	8.05	8.05	3.07	11.12	
										373.24	337.03	36.21	36.21	36.21	13.81	50.02	
										804.23	726.21	78.02	78.02	78.02	29.77	107.79	
										6.58	5.94	0.64	0.64	0.64	0.23	0.87	
										40.41	36.49	3.92	3.92	3.92	1.49	5.41	
										225.79	203.89	21.90	21.90	21.90	8.38	30.28	
										4,945.81	5,208.42	262.61	262.61	262.61	100.14	362.75	
										23.56	21.27	2.29	2.29	2.29	0.83	3.12	
										1,513.02	1,366.24	146.78	146.78	146.78	54.44	201.22	
										159.73	144.23	15.50	15.50	15.50	5.77	21.27	
										248.68	224.55	24.13	24.13	24.13	8.95	33.08	
										129.34	116.79	12.55	12.55	12.55	4.63	17.18	
										48.31	43.62	4.69	4.69	4.69	1.78	6.47	
										187.39	169.21	18.18	18.18	18.18	6.75	24.93	
										421.08	380.23	40.85	40.85	40.85	15.16	56.01	
										2.97	2.69	0.28	0.28	0.28	0.14	0.42	
										20.29	18.32	1.97	1.97	1.97	0.69	2.66	
										563.89	509.18	54.71	54.71	54.71	20.31	75.02	
										6,868.38	7,233.07	364.69	364.69	364.69	135.21	499.90	
										167,861.55	162,359.75	5,501.80	5,501.80	5,501.80	2,305.36	7,807.16	
										368.89	480.20	111.31	111.31	111.31	51.62	162.93	
										66.35	86.37	20.02	20.02	20.02	9.28	29.30	
										97.43	126.82	29.39	29.39	29.39	13.62	43.01	
										71.89	93.57	21.68	21.68	21.68	10.05	31.73	
										16.03	20.07	4.04	4.04	4.04	2.27	7.11	
										92.89	120.92	28.03	28.03	28.03	12.99	41.02	
										196.28	255.51	59.23	59.23	59.23	27.46	86.69	
										1.00	1.30	0.30	0.30	0.30	0.18	0.48	
										11.05	14.39	3.34	3.34	3.34	1.55	4.89	
										368.89	480.20	111.31	111.31	111.31	50.71	162.02	
										66.35	86.37	20.02	20.02	20.02	9.12	29.14	
										97.43	126.82	29.39	29.39	29.39	13.41	42.80	
										71.89	93.57	21.68	21.68	21.68	9.88	31.56	

TYP CHR CHD

TOTAL

NHF	M	199408	1096108	13523231	167,861.55	162,359.75	5,501.80	5,501.80	2,305.36	7,807.16
	M	199408	1113812	31801	368.89	480.20	111.31	111.31	51.62	162.93
	M	199408	1113852	5720	66.35	86.37	20.02	20.02	9.28	29.30
	M	199408	1113856	8399	97.43	126.82	29.39	29.39	13.62	43.01
	M	199408	1113864	6197	71.89	93.57	21.68	21.68	10.05	31.73
	M	199408	1113872	1382	16.03	20.07	4.04	4.04	2.27	7.11
	M	199408	1113876	8006	92.89	120.92	28.03	28.03	12.99	41.02
	M	199408	1113880	16921	196.28	255.51	59.23	59.23	27.46	86.69
	M	199408	1113882	86	1.00	1.30	0.30	0.30	0.18	0.48
	M	199408	1113892	953	11.05	14.39	3.34	3.34	1.55	4.89
	M	199409	1096108	31801	368.89	480.20	111.31	111.31	50.71	162.02
	M	199409	1113812	5720	66.35	86.37	20.02	20.02	9.12	29.14
	M	199409	1113852	8399	97.43	126.82	29.39	29.39	13.41	42.80
	M	199409	1113856	6197	71.89	93.57	21.68	21.68	9.88	31.56

WILLIAMS NATURAL GAS COMPANY
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REFUND PERIOD 11/01/1993 - 07/31/1995
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CUST	CONTRACT	RSC	TSS	TYP	A	DTE	LOCATION	DTN	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	17A0017	TSS		MNF	M	199409	1113864	1382	16.03	20.87	4.84	4.84	2.23	7.07
				M	M	199409	1113872	8008	92.89	120.92	28.03	28.03	12.78	40.81
				M	M	199409	1113876	16921	196.28	255.51	59.23	59.23	26.99	86.22
				M	M	199409	1113880	86	1.00	1.30	0.30	0.30	0.17	0.47
				M	M	199409	1113892	953	11.05	14.39	3.34	3.34	1.51	4.85
				M	M	199410	1096108	31801	368.89	480.20	111.31	111.31	49.81	161.12
				M	M	199410	1113812	5720	66.35	86.37	20.02	20.02	8.94	28.96
				M	M	199410	1113852	8399	126.82	97.43	29.39	29.39	13.14	42.53
				M	M	199410	1113856	6197	71.89	93.57	21.68	21.68	9.72	31.40
				M	M	199410	1113864	1382	16.03	20.87	4.84	4.84	2.19	7.03
				M	M	199410	1113872	8008	120.92	92.89	28.03	28.03	12.55	40.58
				M	M	199410	1113876	16921	196.28	255.51	59.23	59.23	26.49	85.72
				M	M	199410	1113880	86	1.00	1.30	0.30	0.30	0.17	0.47
				M	M	199410	1113892	953	11.05	14.39	3.34	3.34	1.48	4.82
				M	M	199411	1096108	31801	368.89	480.20	111.31	111.31	48.84	160.15
				M	M	199411	1113812	5720	66.35	86.37	20.02	20.02	8.77	28.79
				M	M	199411	1113852	8399	97.43	126.82	29.39	29.39	12.90	42.29
				M	M	199411	1113856	6197	71.89	93.57	21.68	21.68	9.50	31.18
				M	M	199411	1113864	1382	16.03	20.87	4.84	4.84	2.12	6.96
				M	M	199411	1113872	8008	92.89	120.92	28.03	28.03	12.30	40.33
				M	M	199411	1113876	16921	196.28	255.51	59.23	59.23	25.98	85.21
				M	M	199411	1113880	86	1.00	1.30	0.30	0.30	0.17	0.47
				M	M	199411	1113892	953	11.05	14.39	3.34	3.34	1.45	4.79
				M	M	199412	1096108	31801	368.89	480.20	111.31	111.31	47.85	159.16
				M	M	199412	1113812	5720	66.35	86.37	20.02	20.02	8.60	28.62
				M	M	199412	1113852	8399	97.43	126.82	29.39	29.39	12.63	42.02
				M	M	199412	1113856	6197	71.89	93.57	21.68	21.68	9.33	31.01
				M	M	199412	1113864	1382	16.03	20.87	4.84	4.84	2.08	6.92
				M	M	199412	1113872	8008	92.89	120.92	28.03	28.03	12.05	40.08
				M	M	199412	1113876	16921	196.28	255.51	59.23	59.23	25.47	84.70
				M	M	199412	1113880	86	1.00	1.30	0.30	0.30	0.16	0.46
				M	M	199412	1113892	953	11.05	14.39	3.34	3.34	1.44	4.78
				M	M	199501	1096108	31801	368.89	480.20	111.31	111.31	46.70	158.01
				M	M	199501	1113812	5720	66.35	86.37	20.02	20.02	8.41	28.43
				M	M	199501	1113852	8399	97.43	126.82	29.39	29.39	12.33	41.72
				M	M	199501	1113856	6197	71.89	93.57	21.68	21.68	9.10	30.78
				M	M	199501	1113864	1382	16.03	20.87	4.84	4.84	2.00	6.84
				M	M	199501	1113872	8008	92.89	120.92	28.03	28.03	11.79	39.82
				M	M	199501	1113876	16921	196.28	255.51	59.23	59.23	24.86	84.09
				M	M	199501	1113880	86	1.00	1.30	0.30	0.30	0.16	0.46
				M	M	199501	1113892	953	11.05	14.39	3.34	3.34	1.40	4.74
				M	M	199502	1096108	31801	368.89	480.20	111.31	111.31	45.80	157.11
				M	M	199502	1113812	5720	66.35	86.37	20.02	20.02	8.22	28.24
				M	M	199502	1113852	8399	97.43	126.82	29.39	29.39	12.11	41.50
				M	M	199502	1113856	6197	71.89	93.57	21.68	21.68	8.90	30.58
				M	M	199502	1113864	1382	16.03	20.87	4.84	4.84	1.97	6.81
				M	M	199502	1113872	8008	92.89	120.92	28.03	28.03	11.53	39.56
				M	M	199502	1113876	16921	196.28	255.51	59.23	59.23	24.36	83.59
				M	M	199502	1113880	86	1.00	1.30	0.30	0.30	0.16	0.46
				M	M	199502	1113892	953	11.05	14.39	3.34	3.34	1.38	4.72
				M	M	199503	1096108	31801	368.89	480.20	111.31	111.31	44.61	155.92
				M	M	199503	1113812	5720	66.35	86.37	20.02	20.02	8.01	28.03

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CUST	CONTRACT	RSC	TYP	CHR	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	ITA0017	TSS	M	NMF	199503	1113852	8399	97.43	126.82	29.39-	29.39-	11.79-	41.18-
			M		199503	1113856	6197	71.89	93.57	21.68-	21.68-	8.71-	30.39-
			M		199503	1113864	1382	16.03	20.87	4.84-	4.84-	1.93-	6.77-
			M		199503	1113872	8008	92.89	120.92	28.03-	28.03-	11.26-	39.29-
			M		199503	1113876	16921	196.28	255.51	59.23-	59.23-	23.73-	82.96-
			M		199503	1113880	86	1.00	1.30	0.30-	0.30-	0.15-	0.45-
			M		199503	1113892	953	11.05	14.39	3.34-	3.34-	1.36-	4.70-
			M		199504	1096108	31801	368.89	480.20	111.31-	111.31-	43.59-	154.90-
			M		199504	1113812	5720	66.35	86.37	20.02-	20.02-	7.85-	27.87-
			M		199504	1113852	8399	97.43	126.82	29.39-	29.39-	11.52-	40.91-
			M		199504	1113856	6197	71.89	93.57	21.68-	21.68-	8.50-	30.18-
			M		199504	1113864	1382	16.03	20.87	4.84-	4.84-	1.89-	6.73-
			M		199504	1113872	8008	92.89	120.92	28.03-	28.03-	10.95-	38.98-
			M		199504	1113876	16921	196.28	255.51	59.23-	59.23-	23.20-	82.43-
			M		199504	1113880	86	1.00	1.30	0.30-	0.30-	0.15-	0.45-
			M		199504	1113892	953	11.05	14.39	3.34-	3.34-	1.34-	4.68-
			M		199505	1096108	31801	368.89	480.20	111.31-	111.31-	42.44-	153.75-
			M		199505	1113812	5720	66.35	86.37	20.02-	20.02-	7.62-	27.64-
			M		199505	1113852	8399	97.43	126.82	29.39-	29.39-	11.21-	40.60-
			M		199505	1113856	6197	71.89	93.57	21.68-	21.68-	8.27-	29.95-
			M		199505	1113864	1382	16.03	20.87	4.84-	4.84-	1.86-	6.70-
			M		199505	1113872	8008	92.89	120.92	28.03-	28.03-	10.70-	38.73-
			M		199505	1113876	16921	196.28	255.51	59.23-	59.23-	22.57-	81.80-
			M		199505	1113880	86	1.00	1.30	0.30-	0.30-	0.15-	0.45-
			M		199505	1113892	953	11.05	14.39	3.34-	3.34-	1.29-	4.63-
			M		199506	1096108	31801	368.89	480.20	111.31-	111.31-	41.25-	152.56-
			M		199506	1113812	5720	66.35	86.37	20.02-	20.02-	7.41-	27.43-
			M		199506	1113852	8399	97.43	126.82	29.39-	29.39-	10.90-	40.29-
			M		199506	1113856	6197	71.89	93.57	21.68-	21.68-	8.04-	29.72-
			M		199506	1113864	1382	16.03	20.87	4.84-	4.84-	1.79-	6.63-
			M		199506	1113872	8008	92.89	120.92	28.03-	28.03-	10.38-	38.41-
			M		199506	1113876	16921	196.28	255.51	59.23-	59.23-	21.94-	81.17-
			M		199506	1113880	86	1.00	1.30	0.30-	0.30-	0.14-	0.44-
			M		199506	1113892	953	11.05	14.39	3.34-	3.34-	1.25-	4.59-

TYP	CHR	NMF	RES	TOTAL
874137				4,342.42-
31801				2,098.96
5720				377.57
8399				554.39
6197				409.02
1382				91.22
8008				528.57
16921				1,116.85
86				5.66
953				62.90
27581				13,195.85
31801				2,087.81
5720				375.51
8399				551.43
6197				406.87

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QUSI	CONTRACT	RSC	TSS	TYP	A	DTE	LOCATION	ACC	APR	DTH	BILLED	REVENUE	SETTLED	REVENUE	BILLED	SETTLED	AMOUNT	INTEREST	REFUND	TOTAL
07921	17A0017			M	RES															
				M						1382	3,460.67	3,460.67	3,460.67	3,460.67	3,460.67	3,460.67	62.33	28.40	90.73	
				M						8008	20,052.83	19,691.67	19,691.67	19,691.67	19,691.67	19,691.67	361.16	164.59	525.75	
				M						16921	42,371.88	41,608.74	41,608.74	41,608.74	41,608.74	41,608.74	763.14	367.76	1,110.90	
				M						86	215.35	215.35	215.35	215.35	215.35	215.35	3.88	1.76	5.64	
				M						953	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	42.98	19.59	62.57	
				P						27381	161,936.71	152,920.15	152,920.15	152,920.15	152,920.15	152,920.15	9,016.56	4,108.91	13,125.47	
				M						31801	79,632.88	78,198.66	78,198.66	78,198.66	78,198.66	78,198.66	1,434.22	641.57	2,075.79	
				M						5720	14,323.45	14,065.48	14,065.48	14,065.48	14,065.48	14,065.48	257.97	115.41	373.38	
				M						8399	21,031.94	20,653.14	20,653.14	20,653.14	20,653.14	20,653.14	378.80	169.44	548.24	
				M						6197	15,517.91	15,238.42	15,238.42	15,238.42	15,238.42	15,238.42	279.49	125.02	404.51	
				M						1382	3,460.67	3,398.34	3,398.34	3,398.34	3,398.34	3,398.34	62.33	27.87	90.20	
				M						8008	20,052.83	19,691.67	19,691.67	19,691.67	19,691.67	19,691.67	361.16	161.57	522.73	
				M						16921	42,371.88	41,608.74	41,608.74	41,608.74	41,608.74	41,608.74	763.14	341.37	1,104.51	
				M						86	215.35	215.35	215.35	215.35	215.35	215.35	3.88	1.73	5.61	
				M						953	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	42.98	19.22	62.20	
				P						27381	161,936.71	152,920.15	152,920.15	152,920.15	152,920.15	152,920.15	9,016.56	4,033.34	13,049.90	
				M						31801	79,632.88	78,198.66	78,198.66	78,198.66	78,198.66	78,198.66	1,434.22	629.14	2,063.36	
				M						5720	14,323.45	14,065.48	14,065.48	14,065.48	14,065.48	14,065.48	257.97	113.16	371.13	
				M						8399	21,031.94	20,653.14	20,653.14	20,653.14	20,653.14	20,653.14	378.80	166.16	544.96	
				M						6197	15,517.91	15,238.42	15,238.42	15,238.42	15,238.42	15,238.42	279.49	122.62	402.11	
				M						1382	3,460.67	3,398.34	3,398.34	3,398.34	3,398.34	3,398.34	62.33	27.33	89.66	
				M						8008	20,052.83	19,691.67	19,691.67	19,691.67	19,691.67	19,691.67	361.16	158.44	519.60	
				M						16921	42,371.88	41,608.74	41,608.74	41,608.74	41,608.74	41,608.74	763.14	334.76	1,097.90	
				M						86	215.35	215.35	215.35	215.35	215.35	215.35	3.88	1.68	5.56	
				M						953	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	2,386.41	42.98	18.86	61.84	
				P						27381	161,936.71	152,920.15	152,920.15	152,920.15	152,920.15	152,920.15	9,016.56	3,955.20	12,971.76	
				M						31801	79,632.88	76,735.81	76,735.81	76,735.81	76,735.81	76,735.81	2,897.07	1,245.53	4,142.60	
				M						5720	14,323.45	13,802.36	13,802.36	13,802.36	13,802.36	13,802.36	521.09	224.03	745.12	
				M						8399	21,031.94	20,266.79	20,266.79	20,266.79	20,266.79	20,266.79	765.15	328.96	1,094.11	
				M						6197	15,517.91	14,953.36	14,953.36	14,953.36	14,953.36	14,953.36	564.55	242.72	807.27	
				M						1382	3,460.67	3,460.67	3,460.67	3,460.67	3,460.67	3,460.67	125.90	54.15	180.05	
				M						8008	20,052.83	19,323.30	19,323.30	19,323.30	19,323.30	19,323.30	729.53	313.65	1,043.18	
				M						16921	42,371.88	40,830.37	40,830.37	40,830.37	40,830.37	40,830.37	1,541.51	662.74	2,204.25	
				M						86	215.35	207.52	207.52	207.52	207.52	207.52	7.83	3.34	11.17	
				M						953	2,386.41	2,299.59	2,299.59	2,299.59	2,299.59	2,299.59	86.82	37.32	124.14	
				P						27381	161,936.71	149,574.19	149,574.19	149,574.19	149,574.19	149,574.19	12,362.52	5,316.95	17,677.47	
				M						31801	79,632.88	76,735.81	76,735.81	76,735.81	76,735.81	76,735.81	2,897.07	1,215.54	4,112.61	
				M						5720	14,323.45	13,802.36	13,802.36	13,802.36	13,802.36	13,802.36	521.09	218.61	739.70	
				M						8399	21,031.94	20,266.79	20,266.79	20,266.79	20,266.79	20,266.79	765.15	321.07	1,086.22	
				M						6197	15,517.91	14,953.36	14,953.36	14,953.36	14,953.36	14,953.36	564.55	236.87	801.42	
				M						1382	3,460.67	3,334.77	3,334.77	3,334.77	3,334.77	3,334.77	125.90	52.82	170.72	
				M						8008	20,052.83	19,323.30	19,323.30	19,323.30	19,323.30	19,323.30	729.53	306.09	1,035.62	
				M						16921	42,371.88	40,830.37	40,830.37	40,830.37	40,830.37	40,830.37	1,541.51	646.79	2,188.30	
				M						86	215.35	207.52	207.52	207.52	207.52	207.52	7.83	3.29	11.12	
				M						953	2,386.41	2,299.59	2,299.59	2,299.59	2,299.59	2,299.59	86.82	36.44	123.26	
				P						27381	161,936.71	149,574.19	149,574.19	149,574.19	149,574.19	149,574.19	12,362.52	5,187.08	17,549.60	
				M						31801	79,632.88	76,735.81	76,735.81	76,735.81	76,735.81	76,735.81	2,897.07	1,191.74	4,088.81	
				M						5720	14,323.45	13,802.36	13,802.36	13,802.36	13,802.36	13,802.36	521.09	214.34	735.43	
				M						8399	21,031.94	20,266.79	20,266.79	20,266.79	20,266.79	20,266.79	765.15	314.74	1,079.89	
				M						6197	15,517.91	14,953.36	14,953.36	14,953.36	14,953.36	14,953.36	564.55	232.20	796.75	
				M						1382	3,460.67	3,334.77	3,334.77	3,334.77	3,334.77	3,334.77	125.90	51.77	177.67	
				M						8008	20,052.83	19,323.30	19,323.30	19,323.30	19,323.30	19,323.30	729.53	300.09	1,029.62	

CUST	CONTRACT	RSC	TSS	TYP	A	DTE	LOCATTION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	1740017			M	199502	1113876		16921	42,371.88	40,830.37	1,541.51	1,541.51	634.12	2,175.63
				M	199502	1113880		86	215.35	207.52	7.83	7.83	3.21	11.04
				M	199502	1113892		953	2,386.41	2,299.59	86.82	86.82	35.71	122.53
				P	199502	1999000		27381	161,936.71	149,574.19	12,362.52	12,362.52	5,085.50	17,448.02
				M	199503	1096108		31801	79,632.88	76,735.81	2,897.07	2,897.07	1,160.84	4,057.91
				M	199503	1113812		5720	14,323.45	13,802.36	521.09	521.09	208.80	729.89
				M	199503	1113852		8399	21,031.94	20,266.79	765.15	765.15	306.58	1,071.73
				M	199503	1113856		6197	15,517.91	14,953.36	564.55	564.55	226.19	790.74
				M	199503	1113864		1382	3,460.67	3,334.77	125.90	125.90	50.44	176.34
				M	199503	1113872		8008	20,052.83	19,323.30	729.53	729.53	292.30	1,021.83
				M	199503	1113876		16921	42,371.88	40,830.37	1,541.51	1,541.51	617.66	2,159.17
				M	199503	1113880		86	215.35	207.52	7.83	7.83	3.13	10.96
				M	199503	1113892		953	2,386.41	2,299.59	86.82	86.82	34.76	121.58
				P	199503	1999000		27381	161,936.71	149,574.19	12,362.52	12,362.52	4,953.52	17,316.04
				M	199504	1096108		31801	79,632.88	76,735.81	2,897.07	2,897.07	1,134.25	4,031.32
				M	199504	1113812		5720	14,323.45	13,802.36	521.09	521.09	204.01	725.10
				M	199504	1113852		8399	21,031.94	20,266.79	765.15	765.15	299.56	1,064.71
				M	199504	1113856		6197	15,517.91	14,953.36	564.55	564.55	221.04	785.59
				M	199504	1113864		1382	3,460.67	3,334.77	125.90	125.90	49.32	175.22
				M	199504	1113872		8008	20,052.83	19,323.30	729.53	729.53	285.63	1,015.16
				M	199504	1113876		16921	42,371.88	40,830.37	1,541.51	1,541.51	603.53	2,145.04
				M	199504	1113880		86	215.35	207.52	7.83	7.83	3.06	10.89
				M	199504	1113892		953	2,386.41	2,299.59	86.82	86.82	34.00	120.82
				P	199504	1999000		27381	161,936.71	149,574.19	12,362.52	12,362.52	4,840.07	17,202.59
				M	199505	1096108		31801	79,632.88	76,735.81	2,897.07	2,897.07	1,104.79	4,001.86
				M	199505	1113812		5720	14,323.45	13,802.36	521.09	521.09	198.72	719.81
				M	199505	1113852		8399	21,031.94	20,266.79	765.15	765.15	291.80	1,056.95
				M	199505	1113856		6197	15,517.91	14,953.36	564.55	564.55	215.31	779.86
				M	199505	1113864		1382	3,460.67	3,334.77	125.90	125.90	48.03	173.93
				M	199505	1113872		8008	20,052.83	19,323.30	729.53	729.53	278.21	1,007.74
				M	199505	1113876		16921	42,371.88	40,830.37	1,541.51	1,541.51	587.86	2,129.37
				M	199505	1113880		86	215.35	207.52	7.83	7.83	3.00	10.83
				M	199505	1113892		953	2,386.41	2,299.59	86.82	86.82	35.12	119.94
				P	199505	1999000		27381	161,936.71	149,574.19	12,362.52	12,362.52	4,714.48	17,077.00
				M	199506	1096108		31801	79,632.88	76,735.81	2,897.07	2,897.07	1,074.03	3,971.10
				M	199506	1113812		5720	14,323.45	13,802.36	521.09	521.09	193.19	714.28
				M	199506	1113852		8399	21,031.94	20,266.79	765.15	765.15	283.64	1,048.79
				M	199506	1113856		6197	15,517.91	14,953.36	564.55	564.55	209.32	773.87
				M	199506	1113864		1382	3,460.67	3,334.77	125.90	125.90	46.66	172.56
				M	199506	1113872		8008	20,052.83	19,323.30	729.53	729.53	270.46	999.99
				M	199506	1113876		16921	42,371.88	40,830.37	1,541.51	1,541.51	571.47	2,112.98
				M	199506	1113880		86	215.35	207.52	7.83	7.83	2.94	10.77
				M	199506	1113892		953	2,386.41	2,299.59	86.82	86.82	32.17	118.99
				P	199506	1999000		27381	161,936.71	149,574.19	12,362.52	12,362.52	4,583.20	16,945.72

TYP CHR RES

TOTAL

RVA H 199504 1113876

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

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CUST	CONTRACT	RSC	TYP	CHR	RVA	TYP	A	DTE	LOCATION	DTN	BILLED	SETTLED	BILLED -	REFUND	REFUND	REFUND
				R				ACC	(APT)		REVENUE	REVENUE	SETTLED	AMOUNT	INTEREST	TOTAL
TOTAL										0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL										15572696	4,148,231.79	3,958,173.62	190,058.17	190,058.17	78,755.48	268,813.65
CONTRACT 1TA0017																
TOTAL	07921	1TA0553	FTS	CHB	P	199311	1999000			73876	22.16	14.78	7.38	190,058.17	78,755.48	268,813.65
				M	199312	1096108				70274	21.08	14.05	7.03	7.38	3.93	11.31
				P	199312	1999000				70907	21.27	14.18	7.09	7.03	3.70	10.73
				M	199401	1096108				79654	23.90	15.93	7.97	7.97	3.75	10.84
				P	199401	1999000				80383	24.11	16.08	8.03	8.03	4.13	12.10
				M	199402	1096108				54232	16.27	10.85	5.42	5.42	4.14	12.17
				P	199402	1999000				54728	16.42	10.95	5.47	5.47	2.77	8.19
				M	199403	1096108				49368	4.94	9.87	4.93	4.93	2.82	8.29
				P	199403	1999000				49805	4.98	9.96	4.98	4.98	2.44	7.37
				P	199501	1999000				55731	5.57	11.15	5.58	5.58	2.46	7.44
				P	199504	1999000				54352	5.43	10.87	5.44	5.44	2.29	7.87
															2.12	7.56
=====																
TOTAL										693310	166.13	138.67	27.46	27.46	15.93	43.39
				CHD	P	199311	1999000			73876	1,359.32	879.12	480.20	480.20	256.00	736.20
				M	199312	1096108				70274	962.75	850.32	112.43	112.43	58.88	171.31
				P	199312	1999000				70907	1,304.69	843.79	460.90	460.90	241.35	702.25
				M	199401	1096108				79654	1,091.26	963.81	127.45	127.45	66.07	193.52
				P	199401	1999000				80383	1,479.05	956.56	522.49	522.49	270.74	793.23
				M	199402	1096108				54232	742.98	656.21	86.77	86.77	44.38	131.15
				P	199402	1999000				54728	1,007.00	651.26	355.74	355.74	181.97	537.71
				M	199403	1096108				49368	661.53	597.35	64.18	64.18	32.32	96.50
				P	199403	1999000				49805	562.80	592.68	29.88	29.88	15.04	44.92
				P	199501	1999000				55731	629.76	663.20	33.44	33.44	14.05	47.49
				P	199504	1999000				54352	614.18	646.79	32.61	32.61	12.78	45.39
=====																
TOTAL										693310	10,415.32	8,301.09	2,114.23	2,114.23	1,109.84	3,224.07
				REB	M	199311	1096108			6099	892.89	824.58	68.31	68.31	36.41	104.72
				P	199311	1999000				6167	902.85	833.78	69.07	69.07	36.84	105.91
				M	199312	1096108				6099	902.85	824.58	68.31	68.31	35.80	104.11
				P	199312	1999000				6167	902.85	833.78	69.07	69.07	36.15	105.22
				M	199401	1096108				6099	892.89	824.58	68.31	68.31	35.38	103.69
				P	199401	1999000				6167	902.85	833.78	69.07	69.07	35.82	104.89
				M	199402	1096108				6099	892.89	824.58	68.31	68.31	34.94	103.25
				P	199402	1999000				6167	902.85	833.78	69.07	69.07	35.33	104.40
				M	199403	1096108				6099	892.89	824.58	68.31	68.31	34.41	102.72
				P	199403	1999000				6167	902.85	833.78	69.07	69.07	34.78	103.85
				M	199404	1096108				6099	892.89	824.58	68.31	68.31	33.94	102.25
				P	199404	1999000				6167	902.85	833.78	69.07	69.07	34.33	103.40
				M	199405	1096108				6099	892.89	824.58	68.31	68.31	33.41	101.72
				P	199405	1999000				6167	902.85	833.78	69.07	69.07	33.79	102.86

TYP CHR CHD

WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

CUST	CONTRACT	RSC	FTS	TYP	A	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	11A0553			CHR	R	ACC	(APT)							
				M	P	199406	1096108	6099	892.89	824.58	68.31	68.31	32.87	101.18
				M	P	199406	1999000	6167	892.85	833.78	59.07	59.07	33.21	92.28
				M	P	199407	1096108	6099	892.89	824.58	68.31	68.31	32.24	100.55
				M	P	199407	1999000	6167	892.85	833.78	59.07	59.07	32.63	91.70
				M	P	199408	1096108	6099	892.89	824.58	68.31	68.31	31.64	99.95
				M	P	199408	1113812	700	102.48	94.64	7.84	7.84	3.66	11.50
				M	P	199408	1113852	1028	150.50	138.99	11.51	11.51	5.35	16.86
				M	P	199408	1113856	758	110.97	102.48	8.49	8.49	3.92	12.41
				M	P	199408	1113864	169	24.74	22.85	1.89	1.89	0.90	2.79
				M	P	199408	1113872	980	143.47	132.50	10.97	10.97	5.08	16.05
				M	P	199408	1113876	2071	303.19	280.00	23.19	23.19	10.77	33.96
				M	P	199408	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
				M	P	199408	1113892	117	17.13	15.82	1.31	1.31	0.60	1.91
				M	P	199408	1999000	12066	1,766.46	1,631.32	135.14	135.14	62.62	197.76
				M	P	199409	1096108	6099	892.89	824.58	68.31	68.31	31.10	99.41
				M	P	199409	1113812	700	102.48	94.64	7.84	7.84	3.56	11.40
				M	P	199409	1113852	1028	150.50	138.99	11.51	11.51	5.24	16.75
				M	P	199409	1113856	758	110.97	102.48	8.49	8.49	3.86	12.35
				M	P	199409	1113864	169	24.74	22.85	1.89	1.89	2.78	15.96
				M	P	199409	1113872	980	143.47	132.50	10.97	10.97	4.99	15.96
				M	P	199409	1113876	2071	303.19	280.00	23.19	23.19	10.57	33.76
				M	P	199409	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
				M	P	199409	1113892	117	17.13	15.82	1.31	1.31	0.60	1.91
				M	P	199409	1999000	12066	1,766.46	1,631.32	135.14	135.14	61.60	196.74
				M	P	199410	1096108	6099	892.89	824.58	68.31	68.31	30.56	98.87
				M	P	199410	1113812	700	102.48	94.64	7.84	7.84	3.52	11.36
				M	P	199410	1113852	1028	150.50	138.99	11.51	11.51	5.14	16.65
				M	P	199410	1113856	758	110.97	102.48	8.49	8.49	3.80	12.29
				M	P	199410	1113864	169	24.74	22.85	1.89	1.89	0.84	2.73
				M	P	199410	1113872	980	143.47	132.50	10.97	10.97	4.90	15.87
				M	P	199410	1113876	2071	303.19	280.00	23.19	23.19	10.35	33.54
				M	P	199410	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
				M	P	199410	1113892	117	17.13	15.82	1.31	1.31	0.59	1.90
				M	P	199410	1999000	12066	1,766.46	1,631.32	135.14	135.14	60.44	195.58
				M	P	199411	1096108	6099	892.89	824.58	68.31	68.31	29.96	98.27
				M	P	199411	1113812	700	102.48	94.64	7.84	7.84	3.44	11.28
				M	P	199411	1113852	1028	150.50	138.99	11.51	11.51	5.03	16.54
				M	P	199411	1113856	758	110.97	102.48	8.49	8.49	3.72	12.21
				M	P	199411	1113864	169	24.74	22.85	1.89	1.89	0.81	2.70
				M	P	199411	1113872	980	143.47	132.50	10.97	10.97	4.81	15.78
				M	P	199411	1113876	2071	303.19	280.00	23.19	23.19	10.19	33.38
				M	P	199411	1113880	11	1.61	1.49	0.12	0.12	0.00	0.12
				M	P	199411	1113892	117	17.13	15.82	1.31	1.31	0.58	1.89
				M	P	199411	1999000	12066	1,766.46	1,631.32	135.14	135.14	59.28	194.42
				M	P	199412	1096108	6099	892.89	789.21	103.68	103.68	44.56	148.24
				M	P	199412	1113812	700	102.48	90.58	11.90	11.90	5.10	17.00
				M	P	199412	1113852	1028	150.50	133.02	17.48	17.48	7.51	24.99
				M	P	199412	1113856	758	110.97	98.09	12.88	12.88	5.55	18.43
				M	P	199412	1113864	169	24.74	21.87	2.87	2.87	1.25	4.12
				M	P	199412	1113872	980	143.47	126.81	16.66	16.66	7.17	23.83
				M	P	199412	1113876	2071	303.19	267.99	35.20	35.20	15.13	50.33
				M	P	199412	1113880	11	1.61	1.49	0.19	0.19	0.00	0.19

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WILLIAMS NATURAL GAS COMPANY
 REFUND REPORT
 RP93-109 REFUND DOCKET RP93-109
 REFUND PERIOD 11/01/1993 - 07/31/1995
 LEVEL: CONTRACT

QUSI	CONTRACT	RSC	FTS	TYP	A	DTE	LOCATION	DTH	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
CHR	R	ACC	(API)	REB	M									
07921	17A0553	FTS		M	P	199412	1113892	117	17.13	15.14	1.99	1.99	0.88	2.87
				M	P	199412	1113892	12066	1,766.46	1,561.34	205.12	205.12	80.19	293.31
				M	P	199501	1096108	6099	892.89	789.21	103.68	103.68	43.49	147.17
				M	P	199501	1113812	700	102.48	90.58	11.90	11.90	5.01	16.91
				M	P	199501	1113852	1028	150.50	133.02	17.48	17.48	5.40	24.84
				M	P	199501	1113856	758	110.97	98.09	12.88	12.88	5.40	18.28
				M	P	199501	1113864	169	24.74	21.87	2.87	2.87	1.22	4.09
				M	P	199501	1113872	980	143.47	126.81	16.66	16.66	6.99	23.65
				M	P	199501	1113876	2071	303.19	267.99	35.20	35.20	14.78	49.98
				M	P	199501	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
				M	P	199501	1113892	117	17.13	15.14	1.99	1.99	0.85	2.84
				M	P	199501	1096108	12066	1,766.46	1,561.34	205.12	205.12	86.06	291.18
				M	P	199502	1096108	6099	892.89	789.21	103.68	103.68	42.65	146.53
				M	P	199502	1113812	700	102.48	90.58	11.90	11.90	4.93	16.83
				M	P	199502	1113852	1028	150.50	133.02	17.48	17.48	7.18	24.66
				M	P	199502	1113856	758	110.97	98.09	12.88	12.88	5.29	18.17
				M	P	199502	1113864	169	24.74	21.87	2.87	2.87	1.20	4.07
				M	P	199502	1113872	980	143.47	126.81	16.66	16.66	6.86	23.52
				M	P	199502	1113876	2071	303.19	267.99	35.20	35.20	14.47	49.67
				M	P	199502	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
				M	P	199502	1113892	117	17.13	15.14	1.99	1.99	0.84	2.83
				M	P	199502	1096108	12066	1,766.46	1,561.34	205.12	205.12	84.39	289.51
				M	P	199503	1096108	6099	892.89	789.21	103.68	103.68	41.54	145.22
				M	P	199503	1113812	700	102.48	90.58	11.90	11.90	4.75	16.65
				M	P	199503	1113852	1028	150.50	133.02	17.48	17.48	7.00	24.48
				M	P	199503	1113856	758	110.97	98.09	12.88	12.88	5.17	18.05
				M	P	199503	1113864	169	24.74	21.87	2.87	2.87	1.18	4.05
				M	P	199503	1113872	980	143.47	126.81	16.66	16.66	6.67	23.33
				M	P	199503	1113876	2071	303.19	267.99	35.20	35.20	14.12	49.32
				M	P	199503	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
				M	P	199503	1113892	117	17.13	15.14	1.99	1.99	0.83	2.82
				M	P	199503	1096108	12066	1,766.46	1,561.34	205.12	205.12	82.18	287.30
				M	P	199504	1096108	6099	892.89	789.21	103.68	103.68	40.60	144.28
				M	P	199504	1113812	700	102.48	90.58	11.90	11.90	4.65	16.55
				M	P	199504	1113852	1028	150.50	133.02	17.48	17.48	6.86	24.34
				M	P	199504	1113856	758	110.97	98.09	12.88	12.88	5.06	17.94
				M	P	199504	1113864	169	24.74	21.87	2.87	2.87	1.16	4.03
				M	P	199504	1113872	980	143.47	126.81	16.66	16.66	6.50	23.16
				M	P	199504	1113876	2071	303.19	267.99	35.20	35.20	13.79	48.99
				M	P	199504	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
				M	P	199504	1113892	117	17.13	15.14	1.99	1.99	0.81	2.80
				M	P	199504	1096108	12066	1,766.46	1,561.34	205.12	205.12	80.31	285.43
				M	P	199505	1096108	6099	892.89	789.21	103.68	103.68	39.55	143.23
				M	P	199505	1113812	700	102.48	90.58	11.90	11.90	4.54	16.44
				M	P	199505	1113852	1028	150.50	133.02	17.48	17.48	6.65	24.13
				M	P	199505	1113856	758	110.97	98.09	12.88	12.88	4.90	17.78
				M	P	199505	1113864	169	24.74	21.87	2.87	2.87	1.11	3.98
				M	P	199505	1113872	980	143.47	126.81	16.66	16.66	6.38	23.04
				M	P	199505	1113876	2071	303.19	267.99	35.20	35.20	13.40	48.60
				M	P	199505	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
				M	P	199505	1113892	117	17.13	15.14	1.99	1.99	0.79	2.78
				M	P	199505	1096108	12066	1,766.46	1,561.34	205.12	205.12	78.20	283.32

WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
93-109 REFUND BUCKET RP93-109
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LEVEL: CONTRACT

CUST	CONTRACT	RSC	TYP A	DTE	LOCATION		BILLED	SETTLED	BILLED -	REFUND	REFUND	TOTAL
07921	17A0553	FIS	CHR R	ACC	(APT)	DTH	REVENUE	REVENUE	SETTLED	AMOUNT	INTEREST	
			REG M	199506	1096108	6099	892.89	789.21	103.68	103.68	38.45	142.13
			M	199506	1113812	700	102.48	90.58	11.90	11.90	4.43	16.33
			M	199506	1113852	1028	150.50	133.02	17.48	17.48	6.48	23.96
			M	199506	1113856	758	110.97	98.09	12.88	12.88	4.79	17.67
			M	199506	1113864	169	24.74	21.87	2.87	2.87	1.08	3.95
			M	199506	1113872	980	143.47	126.81	16.66	16.66	6.18	22.84
			M	199506	1113876	2071	303.19	267.99	35.20	35.20	13.07	48.27
			M	199506	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
			M	199506	1113892	117	17.13	15.14	1.99	1.99	0.74	2.73
			P	199506	1999000	12066	1,766.46	1,561.34	205.12	205.12	76.05	281.17
			M	199507	1096108	5832	853.80	754.66	99.14	99.14	35.79	134.93
			M	199507	1113812	576	84.33	74.53	9.80	9.80	3.54	13.34
			M	199507	1113852	846	123.85	109.47	14.38	14.38	5.20	19.58
			M	199507	1113856	624	91.35	80.75	10.60	10.60	3.82	14.42
			M	199507	1113864	139	20.35	17.99	2.36	2.36	0.83	3.19
			M	199507	1113872	806	118.00	104.30	13.70	13.70	4.94	18.64
			M	199507	1113876	1704	249.47	220.50	28.97	28.97	10.45	39.42
			M	199507	1113880	11	1.61	1.42	0.19	0.19	0.00	0.19
			M	199507	1113892	96	14.05	12.42	1.63	1.63	0.60	2.23
			P	199507	1999000	8480	1,241.47	1,097.31	144.16	144.16	52.06	196.22

TOTAL	TYP	CHR	REB	RES	M	199311	1096108	393497	57,607.78	52,115.56	5,492.22	5,492.22	5,492.22	2,368.70	7,860.92
				P	6099	199311	1096108	6099	17,485.83	14,997.44	2,488.39	2,488.39	2,488.39	1,326.52	3,814.91
				P	6167	199311	1099000	6167	38,102.19	34,442.08	3,660.11	3,660.11	3,660.11	1,951.14	5,611.25
				M	6099	199312	1096108	6099	17,485.83	14,997.44	2,488.39	2,488.39	2,488.39	1,916.58	5,576.69
				P	6167	199312	1099000	6167	38,102.19	34,442.08	3,660.11	3,660.11	3,660.11	1,289.42	3,777.81
				M	6099	199401	1096108	6099	17,485.83	14,997.44	2,488.39	2,488.39	2,488.39	1,896.58	5,556.69
				P	6167	199401	1099000	6167	38,102.19	34,442.08	3,660.11	3,660.11	3,660.11	1,272.78	3,761.17
				M	6099	199402	1096108	6099	17,485.83	14,997.44	2,488.39	2,488.39	2,488.39	1,872.04	5,532.15
				P	6167	199402	1099000	6167	38,102.19	34,442.08	3,660.11	3,660.11	3,660.11	138.53	413.60
				M	6099	199403	1096108	6099	15,272.51	14,997.44	275.07	275.07	275.07	1,022.77	3,053.56
				P	6167	199403	1099000	6167	36,472.87	34,442.08	2,030.79	2,030.79	2,030.79	136.64	411.71
				M	6099	199404	1096108	6099	15,272.51	14,997.44	275.07	275.07	275.07	1,008.88	3,039.67
				P	6167	199404	1099000	6167	36,472.87	34,442.08	2,030.79	2,030.79	2,030.79	992.96	409.56
				M	6099	199405	1096108	6099	15,272.51	14,997.44	275.07	275.07	275.07	132.33	407.40
				P	6167	199405	1099000	6167	36,472.87	34,442.08	2,030.79	2,030.79	2,030.79	976.77	3,007.56
				M	6099	199406	1096108	6099	15,272.51	14,997.44	275.07	275.07	275.07	129.89	404.96
				P	6167	199407	1096108	6099	36,472.87	34,442.08	2,030.79	2,030.79	2,030.79	958.73	2,989.52
				M	6099	199407	1099000	6099	15,272.51	14,997.44	275.07	275.07	275.07	127.52	402.59
				M	700	199408	1113812	700	1,752.87	1,721.30	31.57	31.57	31.57	14.61	46.18
				M	1028	199408	1113852	1028	2,574.21	2,527.85	46.36	46.36	46.36	21.51	67.87
				M	758	199408	1113856	758	1,898.11	1,863.92	34.19	34.19	34.19	15.86	50.05
				M	169	199408	1113864	169	423.19	415.57	7.62	7.62	7.62	3.52	11.14
				M	980	199408	1113872	980	2,454.02	2,409.82	44.20	44.20	44.20	20.46	64.66
				M	2071	199408	1113876	2071	5,185.99	5,092.59	93.40	93.40	93.40	43.30	136.70
				M	11	199408	1113880	11	27.55	27.05	0.50	0.50	0.50	0.18	0.68
				M	117	199408	1113892	117	292.98	287.70	5.28	5.28	5.28	2.67	7.75
				P	12066	199408	1099000	12066	71,360.74	67,387.40	3,973.34	3,973.34	3,973.34	1,861.67	5,815.01

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WILLIAMS NATURAL GAS COMPANY
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CUST	CONTRACT	RSC	TYP	A	DTE	LOCATION	TH	BILLED	SETTLED	BILLED -	REFUND	REFUND	REFUND
07921	ITA0553	FIS	CHR	R	ACC	(APT)	DTM	REVENUE	REVENUE	SETTLED	AMOUNT	INTEREST	TOTAL
			RES					15,272.51	14,997.44	275.07	275.07	125.33	400.40
			M		199409	1096108	6099	1,752.87	1,721.30	31.57	31.57	14.38	45.95
			M		199409	1113812	700	2,574.21	2,527.85	46.36	46.36	21.14	67.50
			M		199409	1113852	1028	1,898.11	1,863.92	34.19	34.19	15.57	49.76
			M		199409	1113856	758	423.19	415.57	7.62	7.62	3.47	11.09
			M		199409	1113864	169	2,454.02	2,409.82	44.20	44.20	20.15	64.35
			M		199409	1113872	980	5,185.99	5,092.59	93.40	93.40	42.59	135.99
			M		199409	1113876	2071	27.55	27.05	0.50	0.50	0.18	0.68
			M		199409	1113880	11	292.98	287.70	5.28	5.28	2.42	7.70
			M		199409	1113892	117	71,360.74	67,387.40	3,973.34	3,973.34	1,810.70	5,784.04
			P		199409	1999000	12066	15,272.51	14,997.44	275.07	275.07	123.06	398.13
			M		199410	1096108	6099	1,752.87	1,721.30	31.57	31.57	14.13	45.70
			M		199410	1113812	700	2,574.21	2,527.85	46.36	46.36	20.74	67.10
			M		199410	1113852	1028	1,898.11	1,863.92	34.19	34.19	15.31	49.50
			M		199410	1113856	758	423.19	415.57	7.62	7.62	3.40	11.02
			M		199410	1113864	169	2,454.02	2,409.82	44.20	44.20	19.78	63.98
			M		199410	1113872	980	5,185.99	5,092.59	93.40	93.40	41.80	135.20
			M		199410	1113876	2071	27.55	27.05	0.50	0.50	0.17	0.67
			M		199410	1113880	11	292.98	287.70	5.28	5.28	2.37	7.65
			M		199410	1113892	117	71,360.74	67,387.40	3,973.34	3,973.34	1,777.38	5,750.72
			P		199410	1999000	12066	15,272.51	14,997.44	275.07	275.07	120.66	395.73
			M		199411	1096108	6099	1,752.87	1,721.30	31.57	31.57	13.86	45.43
			M		199411	1113812	700	2,574.21	2,527.85	46.36	46.36	20.34	66.70
			M		199411	1113852	1028	1,898.11	1,863.92	34.19	34.19	14.97	49.16
			M		199411	1113856	758	423.19	415.57	7.62	7.62	3.34	10.96
			M		199411	1113864	169	2,454.02	2,409.82	44.20	44.20	19.40	63.60
			M		199411	1113872	980	5,185.99	5,092.59	93.40	93.40	40.96	134.36
			M		199411	1113876	2071	27.55	27.05	0.50	0.50	0.17	0.67
			M		199411	1113880	11	292.98	287.70	5.28	5.28	2.32	7.60
			M		199411	1113892	117	71,360.74	67,387.40	3,973.34	3,973.34	1,742.96	5,716.30
			P		199411	1999000	12066	15,272.51	14,716.89	555.62	555.62	238.88	794.50
			M		199412	1096108	6099	1,752.87	1,689.10	63.77	63.77	27.42	91.19
			M		199412	1113812	700	2,574.21	2,480.56	93.65	93.65	40.23	133.88
			M		199412	1113852	1028	1,898.11	1,829.05	69.06	69.06	29.68	98.74
			M		199412	1113856	758	423.19	407.80	15.39	15.39	6.61	22.00
			M		199412	1113864	169	2,454.02	2,364.74	89.28	89.28	38.39	127.67
			M		199412	1113872	980	5,185.99	4,997.32	188.67	188.67	81.11	269.78
			M		199412	1113876	2071	27.55	26.54	1.01	1.01	0.41	1.42
			M		199412	1113880	11	292.98	282.32	10.66	10.66	4.57	15.23
			M		199412	1113892	117	71,360.74	65,912.94	5,447.80	5,447.80	2,342.15	7,789.95
			P		199412	1999000	12066	15,272.51	14,716.89	555.62	555.62	233.12	788.74
			M		199501	1096108	6099	1,752.87	1,689.10	63.77	63.77	26.75	90.52
			M		199501	1113812	700	2,574.21	2,480.56	93.65	93.65	39.30	132.95
			M		199501	1113852	1028	1,898.11	1,829.05	69.06	69.06	28.97	98.03
			M		199501	1113856	758	423.19	407.80	15.39	15.39	6.49	21.88
			M		199501	1113864	169	2,454.02	2,364.74	89.28	89.28	37.46	126.74
			M		199501	1113872	980	5,185.99	4,997.32	188.67	188.67	79.16	267.83
			M		199501	1113876	2071	27.55	26.54	1.01	1.01	0.41	1.42
			M		199501	1113880	11	292.98	282.32	10.66	10.66	4.47	15.13
			M		199501	1113892	117	71,360.74	65,912.94	5,447.80	5,447.80	2,285.80	7,733.60
			P		199501	1999000	12066	15,272.51	14,716.89	555.62	555.62	228.59	784.21
			M		199502	1096108	6099	1,752.87	1,689.10	63.77	63.77	26.25	90.02
			M		199502	1113812	700						

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CUST	CONTRACT	RSC	FTS	TYP	A	DTE	LOCATION	APR	TH	BILLED	REVENUE	SETTLED	REVENUE	SETTLED	REFUND	AMOUNT	INTEREST	REFUND	TOTAL
07921	17A0553			M	199502	1113852			1028	2,574.21	2,574.21	1028	2,480.56	93.65	93.65	38.53	132.18		
				M	199502	1113856			758	1,898.11	1,898.11	758	1,829.05	69.06	69.06	28.41	97.47		
				M	199502	1113864			169	423.19	423.19	169	407.80	15.39	15.39	6.34	21.73		
				M	199502	1113872			980	2,454.02	2,454.02	980	2,364.74	89.28	89.28	36.72	126.00		
				M	199502	1113876			2071	5,185.99	5,185.99	2071	4,997.32	188.67	188.67	77.60	266.27		
				M	199502	1113880			11	27.55	27.55	11	26.54	1.01	1.01	0.40	1.41		
				M	199502	1113892			117	292.98	292.98	117	282.32	10.66	10.66	4.38	15.04		
				P	199502	1999000			12066	71,360.74	71,360.74	12066	65,912.94	5,447.80	5,447.80	2,241.04	7,688.84		
				M	199503	1096108			6099	15,272.51	15,272.51	6099	14,716.89	555.62	555.62	222.64	778.26		
				M	199503	1113812			700	1,752.87	1,752.87	700	1,689.10	63.77	63.77	25.56	89.33		
				M	199503	1113852			1028	2,574.21	2,574.21	1028	2,480.56	93.65	93.65	37.53	131.18		
				M	199503	1113856			758	1,898.11	1,898.11	758	1,829.05	69.06	69.06	27.66	96.72		
				M	199503	1113864			169	423.19	423.19	169	407.80	15.39	15.39	6.14	21.53		
				M	199503	1113872			980	2,454.02	2,454.02	980	2,364.74	89.28	89.28	35.79	125.07		
				M	199503	1113876			2071	5,185.99	5,185.99	2071	4,997.32	188.67	188.67	75.62	264.29		
				M	199503	1113880			11	27.55	27.55	11	26.54	1.01	1.01	0.40	1.41		
				M	199503	1113892			117	292.98	292.98	117	282.32	10.66	10.66	4.27	14.93		
				P	199503	1999000			12066	71,360.74	71,360.74	12066	65,912.94	5,447.80	5,447.80	2,182.87	7,630.67		
				M	199504	1096108			6099	15,272.51	15,272.51	6099	14,716.89	555.62	555.62	217.54	773.16		
				M	199504	1113812			700	1,752.87	1,752.87	700	1,689.10	63.77	63.77	24.98	88.75		
				M	199504	1113852			1028	2,574.21	2,574.21	1028	2,480.56	93.65	93.65	36.63	130.28		
				M	199504	1113856			758	1,898.11	1,898.11	758	1,829.05	69.06	69.06	27.03	96.09		
				M	199504	1113864			169	423.19	423.19	169	407.80	15.39	15.39	6.01	21.40		
				M	199504	1113872			980	2,454.02	2,454.02	980	2,364.74	89.28	89.28	34.95	124.23		
				M	199504	1113876			2071	5,185.99	5,185.99	2071	4,997.32	188.67	188.67	73.86	262.53		
				M	199504	1113880			11	27.55	27.55	11	26.54	1.01	1.01	0.39	1.40		
				M	199504	1113892			117	292.98	292.98	117	282.32	10.66	10.66	4.18	14.84		
				P	199504	1999000			12066	71,360.74	71,360.74	12066	65,912.94	5,447.80	5,447.80	2,132.89	7,580.69		
				M	199505	1096108			6099	15,272.51	15,272.51	6099	14,716.89	555.62	555.62	211.88	767.50		
				M	199505	1113812			700	1,752.87	1,752.87	700	1,689.10	63.77	63.77	24.33	88.10		
				M	199505	1113852			1028	2,574.21	2,574.21	1028	2,480.56	93.65	93.65	35.73	129.38		
				M	199505	1113856			758	1,898.11	1,898.11	758	1,829.05	69.06	69.06	26.35	95.41		
				M	199505	1113864			169	423.19	423.19	169	407.80	15.39	15.39	5.89	21.28		
				M	199505	1113872			980	2,454.02	2,454.02	980	2,364.74	89.28	89.28	34.04	123.32		
				M	199505	1113876			2071	5,185.99	5,185.99	2071	4,997.32	188.67	188.67	71.96	260.63		
				M	199505	1113880			11	27.55	27.55	11	26.54	1.01	1.01	0.37	1.38		
				M	199505	1113892			117	292.98	292.98	117	282.32	10.66	10.66	4.07	14.73		
				P	199505	1999000			12066	71,360.74	71,360.74	12066	65,912.94	5,447.80	5,447.80	2,077.55	7,525.35		
				M	199506	1096108			6099	15,272.51	15,272.51	6099	14,716.89	555.62	555.62	206.00	761.62		
				M	199506	1113812			700	1,752.87	1,752.87	700	1,689.10	63.77	63.77	23.63	87.40		
				M	199506	1113852			1028	2,574.21	2,574.21	1028	2,480.56	93.65	93.65	34.72	128.37		
				M	199506	1113856			758	1,898.11	1,898.11	758	1,829.05	69.06	69.06	25.62	94.68		
				M	199506	1113864			169	423.19	423.19	169	407.80	15.39	15.39	5.70	21.09		
				M	199506	1113872			980	2,454.02	2,454.02	980	2,364.74	89.28	89.28	33.13	122.41		
				M	199506	1113876			2071	5,185.99	5,185.99	2071	4,997.32	188.67	188.67	69.94	256.61		
				M	199506	1113880			11	27.55	27.55	11	26.54	1.01	1.01	0.37	1.38		
				M	199506	1113892			117	292.98	292.98	117	282.32	10.66	10.66	3.93	14.59		
				P	199506	1999000			12066	71,360.74	71,360.74	12066	65,912.94	5,447.80	5,447.80	2,019.68	7,467.48		
				M	199507	1096108			5832	14,603.91	14,603.91	5832	14,072.62	531.29	531.29	191.85	723.14		
				M	199507	1113812			576	1,442.36	1,442.36	576	1,389.89	52.47	52.47	18.95	71.42		
				M	199507	1113852			866	2,118.47	2,118.47	866	2,041.40	77.07	77.07	27.83	104.90		
				M	199507	1113856			624	1,562.56	1,562.56	624	1,505.71	56.85	56.85	20.53	77.38		

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

PAGE 2320

CUST	CONTRACT	RSC	TYP	CHR	ACC	DTE	LOCATION	DTN	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	1TA0553	FIS	RES	M	199507	1113864	139	7744	348.07	335.41	12.66	12.66	4.54	17.20
			RES	M	199507	1113872	806	7744	2,018.30	1,944.88	73.42	73.42	26.51	99.93
			RES	M	199507	1113876	1704	7744	4,266.99	4,111.75	155.24	155.24	56.04	211.28
			RES	M	199507	1113880	11	27.55	26.54	1.01	1.01	0.36	1.37	
			RES	M	199507	1113892	96	240.39	231.65	8.74	8.74	3.17	11.91	
			P		199507	1999000	8480	50,152.42	46,323.70	3,828.72	3,828.72	1,382.50	5,211.22	

TYP CHR RES

TOTAL 393497 1,671,523.87 1,566,812.61 104,711.26 46,667.97 151,379.23

RSC FIS

TOTAL 2173614 1,739,713.10 1,627,367.93 112,345.17 50,162.44 162,507.61

CONTRACT 1TA0553

CUST	CONTRACT	RSC	TYP	CHR	ACC	DTE	LOCATION	DTN	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
	1TA0557	TSS	CHD	M	199507	1013745	7744	103.77	1,739,713.10	1,627,367.93	112,345.17	112,345.17	50,162.44	162,507.61
			CHD	M	199507	1096108	106964	1,433.32	1,294.26	1,294.26	139.06	139.06	50.20	189.26
			CHD	M	199507	1113812	11160	149.54	135.04	135.04	14.50	14.50	5.23	19.73
			CHD	M	199507	1113852	10264	137.54	124.19	124.19	13.35	13.35	4.81	18.16
			CHD	M	199507	1113856	6932	92.89	83.88	83.88	9.01	9.01	3.26	12.27
			CHD	M	199507	1113864	6692	89.68	80.98	80.98	8.70	8.70	3.16	11.86
			CHD	M	199507	1113872	12786	171.33	154.71	154.71	16.62	16.62	5.98	22.60
			CHD	M	199507	1113876	30026	402.35	363.31	363.31	39.04	39.04	14.10	53.14
			CHD	M	199507	1113880	452	6.06	5.47	5.47	0.59	0.59	0.19	0.78
			CHD	M	199507	1113892	1450	19.43	17.55	17.55	1.88	1.88	0.67	2.55
			CHD	M	199507	1630204	80846	1,083.34	978.24	978.24	105.10	105.10	37.95	143.05
			P		199507	1999000	535370	6,049.68	6,370.90	321.22	321.22	116.01	437.23	

TYP CHR CHD

CUST	CONTRACT	RSC	TYP	CHR	ACC	DTE	LOCATION	DTN	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
			NNF	M	199507	1096108	810686	9,738.93	9,702.23	36.70	36.70	13.17	49.87	
			NNF	M	199507	1113812	29330	340.23	442.88	102.65	102.65	37.06	139.71	
			NNF	M	199507	1113852	4572	53.04	69.04	16.00	16.00	5.79	21.79	
			NNF	M	199507	1113856	6714	77.88	101.38	23.50	23.50	8.49	31.99	
			NNF	M	199507	1113864	4953	57.45	74.79	17.34	17.34	6.25	23.59	
			NNF	M	199507	1113872	1105	12.82	16.69	3.87	3.87	1.42	5.29	
			NNF	M	199507	1113876	6401	74.25	96.66	22.41	22.41	8.09	30.50	
			NNF	M	199507	1113880	13525	156.89	204.23	47.34	47.34	17.10	64.44	
			NNF	M	199507	1113892	86	1.00	1.50	0.50	0.50	0.14	0.64	
			NNF	M	199507	1113892	762	8.84	11.51	2.67	2.67	0.96	3.63	

TYP CHR NNF

CUST	CONTRACT	RSC	TYP	CHR	ACC	DTE	LOCATION	DTN	BILLED REVENUE	SETTLED REVENUE	BILLED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
			RES	M	199507	1096108	67448	782.40	1,018.48	236.08	236.08	85.30	321.38	
			RES	M	199507	1113812	29330	73,445.25	70,773.29	2,671.96	2,671.96	964.81	3,636.77	
			RES	M	199507	1113852	4572	11,448.75	11,032.24	416.51	416.51	150.38	566.89	
			RES	M	199507	1113856	6714	16,812.53	16,200.88	611.65	611.65	220.85	832.50	
			RES	M	199507	1113864	4953	12,402.81	11,951.59	451.22	451.22	162.93	614.15	
			RES	M	199507	1113872	1105	2,767.03	2,666.37	100.66	100.66	36.36	137.02	
			RES	M	199507	1113876	6401	16,028.74	15,445.61	583.13	583.13	210.53	793.66	
			RES	M	199507	1113892	13525	33,867.95	32,635.83	1,232.12	1,232.12	444.89	1,677.01	

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WILLIAMS NATURAL GAS COMPANY
REFUND REPORT
RP93-109 REFUND DOCKET RP93-109
REFUND PERIOD 11/01/1993 - 07/31/1995
LEVEL: CONTRACT

PAGE 2521

CUST	CONTRACT	RSC	TSS	TYP A	DTE	LOCATION	CHR R	ACC	DTM	BILLED REVENUE	SETTLED REVENUE	811LED - SETTLED	REFUND AMOUNT	REFUND INTEREST	REFUND TOTAL
07921	ITA0557			RES M	199507	1113880			86	215.35	207.52	7.83	7.83	2.83	10.66
				M	199507	1113892			762	1,908.12	1,838.71	69.41	69.41	25.06	94.47
				P	199507	1999000			23240	137,446.01	126,953.15	10,492.86	10,492.86	3,788.81	14,281.67

TOTAL

TYP CHR RES 90688 306,342.54 289,705.19 16,637.35 16,637.35 6,007.45 22,644.80

TOTAL

RSC TSS 968822 316,863.87 300,425.90 16,437.97 16,437.97 5,935.32 22,373.29

CONTRACT ITA0557

TOTAL	ITA0840	FTS	CMB P	199507	1999000	968822			45520	316,863.87	300,425.90	16,437.97	16,437.97	5,935.32	22,373.29
										4.55	9.10	4.55	4.55	1.63	6.18

TOTAL

TYP CHR CMB 45520 514.38 4.55 9.10 4.55 1.63 6.18
45520 514.38 4.55 9.10 4.55 9.86 37.17

TOTAL

TYP CHR CMB 45520 514.38 4.55 9.10 4.55 1.63 6.18
2273 332.77 294.13 38.64 38.64 13.96 52.60

TOTAL

TYP CHR RES 2273 332.77 294.13 38.64 38.64 13.96 52.60
2273 13,442.98 12,416.72 1,026.26 1,026.26 370.59 1,396.85

TOTAL

TYP CHR RES 2273 13,442.98 12,416.72 1,026.26 1,026.26 370.59 1,396.85

TOTAL

RSC FTS 95586 14,294.68 13,261.64 1,033.04 1,033.04 373.06 1,406.10

CONTRACT ITA0840

TOTAL 95586 14,294.68 13,261.64 1,033.04 1,033.04 373.06 1,406.10

CUST 07921

TOTAL 42954811 8,528,052.91 8,084,625.30 443,427.61 444,227.90 198,371.03 642,598.93

15

WILLIAMS GAS PIPELINES CENTRAL, INC.
REFUND ALLOCATION

Journal Entry

Debit GSS Refund Account	28,840.41	
Credit 229.001 5198 MPS		14,560.53
Credit 229.001 5191 KPS		9,771.32
Credit 229.001 5191 PNG		2,725.36
Reduce current month gas costs:		
RG3		379.99
KCI		783.84
GSS		152.13
WP		467.24

UTILICORP UNITED
REFUND ALLOCATION
WILLIAMS GAS PIPELINES CENTRAL, INC.

SOUTHERN SYSTEM
GRI Refund - 1998

Actual GRI Payments

	<u>MPS</u>	<u>KPS</u>	<u>RG3</u>	<u>KCI</u>	<u>PNG</u>	<u>SFRS</u>	<u>WP</u>	<u>Total</u>
Jan-98	17,934.27	7,190.15	1.13	7,663.31	2,213.07		2,600.00	37,601.93
Feb-98	15,826.05	12,975.90		3.39	3,633.79		2,600.00	35,039.13
Mar-98	17,032.42	13,537.38	181.62	(40.82)	4,376.37			35,086.97
Apr-98	14,203.87	5,501.51	10.90		2,709.23	88.61		22,514.12
May-98	12,644.96	7,883.48		47.24	2,274.22			22,849.90
Jun-98	11,040.32	9,528.29	623.57	239.14	1,797.73	148.43		23,377.48
Jul-98	15,564.77	8,160.64	1,053.89	303.45	2,226.93			27,309.68
Aug-98	12,500.60	9,401.95	1,168.28	281.66	2,568.16			25,920.65
Sep-98	13,463.06	10,255.91	1,114.56	226.07	3,248.93	264.00		28,572.53
Oct-98	8,861.01	5,881.45	40.80	0.17	2,043.48	298.86		17,125.77
Nov-98	10,723.71	8,131.87			1,471.32	308.00		20,634.90
Dec-98	12,253.47	10,299.45	34.19		1,768.14	585.20		24,940.45
	162,048.51	108,747.98	4,228.94	8,723.61	30,331.37	1,693.10	5,200.00	320,973.51
Allocation								
Percents	50.49%	33.88%	1.32%	2.72%	9.45%	0.53%	1.62%	100%
Refund Total	28,840.41							
Refunds	14,560.53	9,771.32	379.99	783.84	2,725.36	152.13	467.24	28,840.41

Total GRI Payments per Williams 321,930.54

Difference (957.03)

WILLIAMS GAS PIPELINES CENTRAL, INC.
P. O. Box 3288, Tulsa, Oklahoma 74101

THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT CORRECT, PLEASE NOTIFY US PROMPTLY AT 1-800-926-8661

CHECK DATE	INVOICE/CONTRACT NUMBER	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
6/09/99	1629106	GRI REFUND - 1998	\$28,840.41		\$28,840.41
CHECK NO. 352165	VENDOR NO. U036 1	CHECK DATE 06/11/99	TOTALS	\$28,840.41	\$28,840.41

CHECK NO. 352165
VENDOR NO. U036 1
CHECK DATE 06/11/99

Williams. WILLIAMS GAS PIPELINES CENTRAL, INC.
P. O. Box 3288, Tulsa, Oklahoma 74101

BankBoston Maine, N.A.
South Portland, ME

52-153
112

PAY EXACTLY
\$28,840.41

28,840 DOLLARS AND 41 CENTS

TO THE ORDER OF
UTILICORP UNITED, INC.
ATTN: GAS SUPPLY ACCOUNTING
2533 NORTH 117TH AVENUE
OMAHA, NE 68164-8618

WILLIAMS GAS PIPELINES CENTRAL, INC.

Paul Pignatelli
AUTHORIZED SIGNATURE

⑈ 352165 ⑆ ⑆ 011201539 ⑆ 80 025 354 ⑆



Gas Pipelines - Central
One Williams Center
P.O. Box 3288
Tulsa, Oklahoma 74101
918/588-2000

June 11, 1999

TO THE CUSTOMERS OF
WILLIAMS GAS PIPELINES CENTRAL, INC.
RECEIVING A REFUND IN
DOCKET NO. GT97-31

Dear Customer:

Per the attached refund report, Williams is refunding the \$484,162 received from GRI applicable to 1998. Enclosed is a check for your share of the refund.

Should you have any questions, please call Suzie Myers at (918) 588-4348 or me at (918) 588-4369.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Bart W. Wherritt".

Bart W. Wherritt, Manager
Certificates and Tariffs



June 11, 1999

Gas Pipelines - Central
One Williams Center
P.O. Box 3288
Tulsa, Oklahoma 74101
918/588-2000

Office of the Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D. C. 20426

Re: Williams Gas Pipelines Central, Inc.
Docket No. GT97-31

Dear Mr. Boergers:

Pursuant to Commission order issued February 22, 1995¹ (February 22 order), in the above referenced docket, Williams Gas Pipelines Central, Inc (Williams) submits herewith for filing a report of GRI refunds made to customers.

STATEMENT OF NATURE, REASONS AND BASIS

The February 22 order directed each pipeline receiving a refund from GRI to credit such refunds pro rata to its eligible customers, and within 15 days of making these credits, file a refund report with the Commission. The attached refund report reflects refunds of \$484,162 made by Williams to its eligible firm customers on June 11, 1999.

GENERAL

Copies of this filing are being served on all of Williams' jurisdictional customers and interested state commissions.

Respectfully submitted,

Bart W. Wherritt, Manager
Certificates and Tariffs

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UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Williams Gas Pipelines Central, Inc.)

Docket No. GT-

NOTICE OF FILING OF REFUND REPORT

Take notice that on June 11, 1999, Williams Gas Pipelines Central, Inc. (Williams), tendered for filing a report of GRI refunds made to customers.

Williams states that this filing is being made in compliance with Commission order issued February 22, 1997, in Docket No. GT97-31. The February 22 order directed each pipeline receiving a refund from GRI to credit such refunds pro rata to its eligible customers, and within 15 days of making these credits, file a refund report with the Commission. The refund report reflects refunds of \$484,162 made by Williams to its eligible firm customers on June 11, 1999.

Williams states that a copy of its filing was served on all of Williams' jurisdictional customers and interested state commissions.

Any person desiring to be heard or to protest this filing should file a motion to intervene or a protest with the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426, in accordance with Sections 385.214 and 385.211 of the Commission's Rules and Regulations. All such motions or protests must be filed as provided in Section 154.210 of the Commission's Regulations. Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceedings. Any person wishing to become a party must file a motion to intervene. Copies of this filing are on file with the Commission and are available for public inspection in the Public Reference Room.

David L. Boergers
Secretary

WILLIAMS GAS PIPELINES CENTRAL, INC.
GAS RESEARCH INSTITUTE REFUND REPORT
FOR THE PERIOD 01/98 THRU 12/98

#	Customer Name	Amount Billed	Percent Allocations	Total Refund Amount
18	ACME BRICK COMPANY	2,717.88	0.00050290	243.49
52	AFG INDUSTRIES, INC.	3,812.90	0.00070551	341.58
54	AG PROCESSING INC.	3,099.91	0.00057358	277.71
97	ALATAMONT MUNICIPAL GAS AUTHORITY	1,164.14	0.00021540	104.29
6801	AMARILLO NATURAL GAS, INC.	3.61	0.00000067	0.32
123	AMERICUS GAS COMPANY	1,083.17	0.00020042	97.04
127	AMOCO ENERGY TRADING CORP.	5,823.51	0.00107754	521.70
126	AMOCO PRODUCTION COMPANY	1,662.83	0.00030768	148.97
7437	ANADARKO ENERGY SERVICES COMPANY	471.94	0.00008732	42.28
3765	AQUILA ENERGY MARKETING CORP.	40,350.18	0.00746610	3,614.80
7802	AQUILA ENERGY TRANSPORTATION CORPORATION	21,151.14	0.00391365	1,894.84
189	ARGONIA KANSAS, CITY OF	673.62	0.00012464	60.35
190	ARKANSAS LOUISIANA COMPANY	2,724.06	0.00050404	244.04
190D	ARKLA (Rural Water/Pocasset)	137.08	0.00002536	12.28
7954	ASSOCIATED PURCHASING SERVICE, INC.	14.64	0.00000276	1.34
223	AUBURN KANSAS, CITY OF	3,752.03	0.00069425	336.13
227	AVANT UTILITIES AUTHORITY	264.26	0.00004890	23.68
7274	BARRETT RESOURCES CORPORATION	492.80	0.00009118	44.15
3407	BAYER CORP	2,574.06	0.00047629	230.60
419	BILLINGS PUBLIC WORKS	520.98	0.00009640	46.67
532	RESOURCE ENERGY SERVICES, LLC	1,962.08	0.00036305	175.78
728	BURLINGTON OKLAHOMA, CITY OF	167.48	0.00003099	15.00
816	CARGILL, INCORPORATED	89.67	0.00001659	8.03
887	CERTAINTED CORPORATION	14,095.52	0.00260813	1,262.76
927	CIBOLA ENERGY SERVICES CORP.	2,387.15	0.00044170	213.85
4672	CITY UTILITIES OF SPRINGFIELD MISSOURI	167,430.57	0.03098013	14,999.40
979	CLEVELAND OKLAHOMA, CITY OF	2,657.96	0.00049181	238.12
7700	COLUMBIA ENERGY SERVICES	65.09	0.00001204	5.83
1043	COMMISSIONERS OF THE LAND OFFICE OF OK	612.99	0.00011342	54.91
7844	CONAGRA ENERGY SERVICES, INC.	3,491.80	0.00064610	312.82
1053	CONOCO INC.	896.00	0.00016579	80.27
1060	CONTINENTAL NATURAL GAS, INC.	20,855.18	0.00385889	1,868.33
1082	COPAN PUBLIC WORKS AUTHORITY	722.92	0.00013376	64.76
8427	COTTON VALLEY COMPRESSION, L.L.C.	5,753.90	0.00106466	515.47
4920	CROSS TIMBERS ENERGY SERVICES, INC.	163.35	0.00003023	14.64
8531	CROSSTEX ENERGY SERVICES, INC.	215.42	0.00003986	19.30
1272	DENISON KANSAS, CITY OF	263.74	0.00004880	23.63
8284	DUKE ENERGY TRADING & MARKETING L.L.C.	11,666.13	0.00215862	1,045.12
7781	DYNEGY GAS TRANSPORTATION, INC.	55.11	0.00001020	4.94
1440	ECKERT GAS COMPANY	66.30	0.00001227	5.94
1511	EMPIRE DISTRICT ELECTRIC COMPANY	107,257.43	0.01984613	9,608.74
1518	ENERGY DYNAMICS, INC.	24.18	0.00000447	2.16
993	ENGAGE ENERGY US, L.P.	5,346.46	0.00098927	478.97
1056	ENSERCH ENERGY SERVICES, INC.	42,911.11	0.00793996	3,844.23
8336	ENSERCO ENERGY, INC.	15,222.11	0.00281659	1,363.69
6045	FAG BEARING CORPORATION	543.07	0.00010049	48.65
1687	FLINT HILLS GAS COMPANY, INC.	66.32	0.00001227	5.94
1711	FORD KANSAS, CITY OF	777.93	0.00014394	69.69
7198	FREEDOM MUNICIPAL TRUST AUTHORITY	348.36	0.00006446	31.21
7806	GALEASSI, MERLE AND NANCY	1,667.53	0.00030855	149.39
1816	GATE OKLAHOMA, TOWN OF	139.80	0.00002587	12.53
1838	GENERAL MOTORS CORPORATION	16,425.31	0.00303922	1,471.47
8425	GENERATION SERVICES, BUSINESS UNIT WRI	63.66	0.00001178	5.70
7397	GPM GAS CORPORATION	12,357.67	0.00228657	1,107.07
1948	GRANBY MISSOURI, CITY OF	1,342.88	0.00024848	120.30
1981	GREELEY GAS COMPANY	48,161.00	0.00891136	4,314.54
7484	GROVE MUNICIPAL SERVICES AUTHORITY	11,985.55	0.00221772	1,073.74

WILLIAMS GAS PIPELINES CENTRAL, INC.
GAS RESEARCH INSTITUTE REFUND REPORT
FOR THE PERIOD 01/98 THRU 12/98

#	Customer Name	Amount Billed	Percent Allocations	Total Refund Amount
192	GST STEEL COMPANY	6,400.67	0.00118433	573.41
2080	HAMILTON KANSAS, CITY OF	266.56	0.00004932	23.88
2181	HEARTLAND CEMENT COMPANY	1,558.34	0.00028834	139.60
2344	HOWARD KANSAS, CITY OF	791.70	0.00014649	70.92
7939	HS RESOURCES, INC.	767.32	0.00014198	68.74
2456	IOLA KANSAS, CITY OF	14,026.43	0.00259535	1,256.57
3914	JANE PHILLIPS MEMORIAL MEDICAL CENTER	2,523.16	0.00046687	226.04
2490	J-W OPERATING COMPANY	1,624.48	0.00030058	145.53
5816	K N GAS MARKETING, INC.	2,279.17	0.00042172	204.18
8096	KANSAS BUSINESS SERVICES	12,603.20	0.00233200	1,129.07
2643	KANSAS CITY POWER AND LIGHT COMPANY	25,841.76	0.00478157	2,315.05
4086	KANSAS GAS MARKETING	61,773.71	0.01143016	5,534.05
2626	KANSAS GAS SERVICE COMPANY	1,784,535.06	0.33019738	159,869.02
2647	KANSAS INDUSTRIAL ENERGY SUPPLY COMPANY	766.05	0.00014174	68.63
7560	KANSAS MUNICIPAL GAS AGENCY	67,265.66	0.01244635	6,026.05
765	KN MARKETING, L.P.	3,122.78	0.00057782	279.76
7768	KOCH GAS SERVICES COMPANY	2,991.34	0.00055350	267.98
8310	LACLEDE GAS COMPANY	47,524.01	0.00879350	4,257.48
7573	LAWRENCE PAPER COMPANY	265.60	0.00004914	23.79
2900	LEANN GAS COMPANY	3,890.93	0.00071995	348.57
2905	LEBO KANSAS, CITY OF	596.08	0.00011029	53.40
2945	LIBERAL MISSOURI, CITY OF	767.26	0.00014197	68.74
3097	MANNFORD PUBLIC WORKS AUTHORITY	3,731.07	0.00069037	334.25
6905	MARGASCO PARTNERSHIP	2,792.63	0.00051673	250.18
6655	MARSHALL MUNICIPAL UTILITIES	645.69	0.00011947	57.84
3245	MCCLOUTH KANSAS, CITY OF	769.38	0.00014236	68.93
7831	MISSOURI GAS ENERGY	1,792,231.43	0.33162146	160,558.51
3472	MOUNTAIN ENERGY CORPORATION	48,499.95	0.00897408	4,344.91
3481	MULBERRY KANSAS, CITY OF	783.14	0.00014491	70.16
3549	DYNEGY MARKETING & TRADE	1,401.66	0.00025935	125.57
8015	NATURAL GAS TRANSMISSION SERVICES, INC.	2,450.98	0.00045351	219.57
7315	NEBRASKA PUBLIC GAS AGENCY	22,351.36	0.00413573	2,002.36
4296	NELAGONEY RURAL GAS	55.30	0.00001023	4.95
3569	NEODESHA KANSAS, CITY OF	4,598.34	0.00085084	411.94
5219	ONEOK GAS MARKETING COMPANY	45,731.97	0.00846191	4,096.94
3725	ORLANDO OKLAHOMA, TOWN OF	154.68	0.00002862	13.86
3726	ORONOGO MISSOURI, CITY OF	239.34	0.00004429	21.44
8257	OZARK NATURAL GAS COMPANY	2,386.80	0.00044164	213.83
8030	PANENERGY GAS SERVICES, INC.	4,885.01	0.00090389	437.63
3782	PANOAK GAS COMPANY, INC.	0.70	0.00000013	0.06
8306	PETRO SOURCE GAS VENTURES	9,703.28	0.00179542	869.27
8489	PG&E ENERGY SERVICES	14,223.07	0.00263173	1,274.18
5120	PG&E ENERGY TRADING CORPORATION	2,510.76	0.00046457	224.93
8496	PIONEER ENERGY MARKETING COMPANY, INC.	32.31	0.00000598	2.90
3956	PLATTSBURG MISSOURI, CITY OF	4,398.73	0.00081391	394.06
7457	POST ROCK GAS, INC.	1,011.69	0.00018720	90.64
4034	PUBLIC SERVICE COMPANY OF COLORADO	599.43	0.00011091	53.70
5073	QUESTAR ENERGY TRADING COMPANY	3,995.42	0.00073928	357.93
4107	READING KANSAS, CITY OF	216.32	0.00004003	19.38
4440	SEVERY GAS COMPANY	430.26	0.00007961	38.54
8258	SOUTHERN MISSOURI GAS COMPANY L.P.	18,474.05	0.00341830	1,655.01
4868	TALBOT INDUSTRIES INC. C/O CONTINENTAL NATURAL GAS	361.42	0.00006687	32.38
7149	TENASKA MARKETING VENTURES	691.12	0.00012788	61.91
8629	TENASKA MARKETING, INC.	455.58	0.00008430	40.81
4046B	THE QUAKER OATS COMPANY	459.43	0.00008501	41.16
6100	TYSON FOODS, INC.	3,992.39	0.00073872	357.66

**WILLIAMS GAS PIPELINES CENTRAL, INC.
GAS RESEARCH INSTITUTE REFUND REPORT
FOR THE PERIOD 01/98 THRU 12/98**

#	Customer Name	Amount Billed	Percent Allocations	Total Refund Amount
5873	UNION PACIFIC FUELS, INC.	37,137.58	0.00687167	3,327.00
5061	UNION PACIFIC RESOURCES GROUP, INC.	18,602.26	0.00344203	1,666.50
6515	UNITED CITIES GAS COMPANY	191,753.35	0.03548064	17,178.38
7786	UTILICORP ENERGY SOLUTIONS	12,968.74	0.00239964	1,161.81
7921	UTILICORP UNITED, INC.	321,930.54	0.05956768	28,840.41
5138	VIOLA KANSAS, CITY OF	152.08	0.00002814	13.62
5169	WAKITA UTILITIES AUTHORITY	470.28	0.00008702	42.13
5216	WANN PUBLIC WORKS AUTHORITY	91.22	0.00001688	8.17
8278	WHEATON NATURAL GAS SYSTEMS	1,521.03	0.00028144	136.26
5338	WILLIAMS ENERGY MARKETING & TRADING CO.	191,622.91	0.03545651	17,166.69
	TOTAL	5,404,449.41	1.00000000	484,162.00

WILLIAMS GAS PIPELINES CENTRAL, INC.

P. O. Box 3288, Tulsa, Oklahoma 74101

DETACH AND RETAIN THIS STATEMENT
THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW.
IF NOT PAID, PLEASE NOTIFY US PROMPTLY AT (502)926-8686.

CHECK DATE	INVOICE/CONTRACT NUMBER	DESCRIPTION	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9/20/99	2649046	OCTOBER 1993 ITS REFUND	\$28,745.59		\$28,745.59

Acc't Dept Prod
MPD 229001 5198.100
RTsou

RECEIVED
SEP 23 1999

BY: _____

CHECK NO.	VENDOR NO.	CHECK DATE	TOTALS		
352249	M072 1	09/20/99		\$28,745.59	\$28,745.59

CHECK NO.	VENDOR NO.	CHECK DATE			
352249	<i>Williams</i>	09/20/99	WILLIAMS GAS PIPELINES CENTRAL, INC. P. O. Box 3288, Tulsa, Oklahoma 74101	352249	52-153 112
	M072 1				

BankBoston Maine, N.A.
South Portland, ME

PAY EXACTLY

\$28,745.59

Y -----28,745 DOLLARS AND 59 CENTS-----

THE
ORDER
OF

MISSOURI PUBLIC SERVICE
C/O UTILICORP UNITED GAS SUPPL
ATTN: LINDA GOW

OMAHA, NE 68164

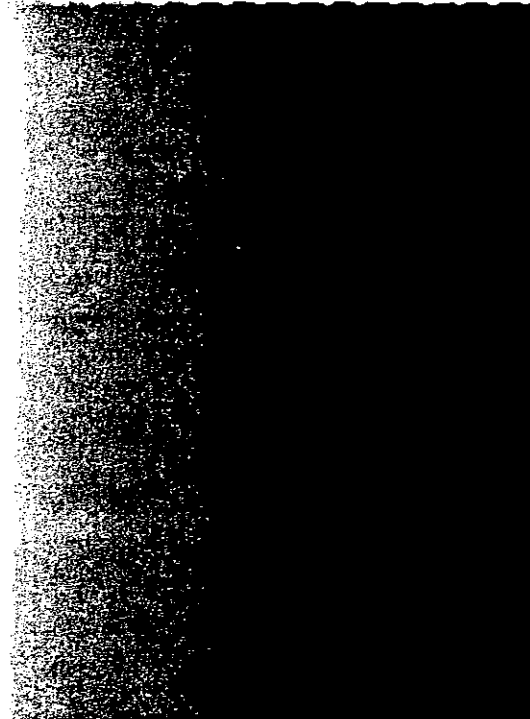
2533 NORTH 117TH AVENUE

WILLIAMS GAS PIPELINES CENTRAL, INC.

Paul Reynolds
CONTROLLER & CHIEF ACCOUNTING OFFICER

AUTHORIZED SIGNATURE

⑈352249⑈ ⑆011201539⑆ 80 025 354⑈





September 20, 1999

Gas Pipelines - Central
One Williams Center
P.O. Box 3288
Tulsa, Oklahoma 74101
918/588-2000

TO THE CUSTOMERS OF
WILLIAMS GAS PIPELINES CENTRAL, INC.
RECEIVING A REFUND IN
DOCKET NO. RP99-451

Dear Customer:

Enclosed is a check for your portion of interruptible transportation and authorized overrun service revenue in Docket No. RP99-451 for the month of October 1993.

On July 29, 1999, as revised on August 12, 1999, Williams filed its interruptible excess refund report pursuant to Article 12 of the General Terms and Conditions of the tariff, for the month of October 1993. By Commission order issued September 9, 1999, in Docket No. RP99-451, the interruptible excess refund report was approved.

The attached schedule shows the allocation of the refund including interest through September 20, 1999.

If you have any questions regarding this refund, please call Suzie Myers at 918-573-4348 or me at 918-573-4369.

Very truly yours,

A handwritten signature in dark ink, appearing to read "Bart W. Wherritt".

Bart W. Wherritt
Manager, Certificates and Tariffs

Schedule 2

Page 1 of 2

**Williams Gas Pipelines Central
Allocation of ITS Refund by Shipper
October 1993
Market Area**

Cust #	Customer Name	Reservation Charge by Customer	%	Principal	Interest	Total ITS Refund
54	Ag Processing	\$1,139.94	0.000362	\$25.76	\$15.28	\$41.04
97	Altamont	\$1,250.26	0.000397	\$28.25	\$16.76	\$45.01
123	Americus Gas	\$711.17	0.000226	\$16.07	\$9.53	\$25.60
192	GST Steel	\$2,279.88	0.000725	\$51.52	\$30.57	\$82.09
223	Auburn	\$1,913.85	0.000608	\$43.25	\$25.66	\$68.91
726	Burlingame	\$1,405.52	0.000447	\$31.76	\$18.84	\$50.60
858	Cassoday	\$209.80	0.000065	\$4.60	\$2.73	\$7.33
1053	Conoco	\$1,519.92	0.000483	\$34.34	\$20.38	\$54.72
1060	CMS-Continental Natural	\$2,383.89	0.000761	\$54.09	\$32.09	\$86.18
1272	Denison	\$230.79	0.000073	\$5.21	\$3.09	\$8.30
1440	Eckert Gas	\$57.82	0.000018	\$1.30	\$0.77	\$2.07
1687	Flint Hills	\$58.80	0.000019	\$1.33	\$0.79	\$2.12
1838	General Motors	\$7,599.80	0.002415	\$171.72	\$101.88	\$273.60
1948	Granby	\$1,595.70	0.000507	\$36.06	\$21.39	\$57.45
1981	Greeley Gas Co.	\$32,024.93	0.010177	\$723.65	\$429.34	\$1,152.99
2080	Hamilton	\$286.88	0.000094	\$6.71	\$3.98	\$10.69
2344	Howard	\$802.28	0.000255	\$18.13	\$10.76	\$28.89
2456	IOLA	\$9,689.49	0.003079	\$218.95	\$129.90	\$348.85
2626	Kansas Gas Service Company	\$887,265.39	0.313745	\$22,308.82	\$13,235.76	\$35,544.58
2900	Leann Gas	\$1,424.83	0.000463	\$32.20	\$19.10	\$51.30
2905	Lebo	\$658.08	0.000209	\$14.87	\$8.82	\$23.69
2945	Liberal	\$528.72	0.000168	\$11.95	\$7.09	\$19.04
3245	McLouth	\$915.75	0.000291	\$20.69	\$12.28	\$32.97
3407	Bayar	\$759.96	0.000242	\$17.17	\$10.19	\$27.36
3472	Mountain Iron	\$6,507.18	0.002068	\$147.04	\$87.24	\$234.28
3481	Mulberry	\$528.82	0.000168	\$11.95	\$7.09	\$19.04
3569	Neodesha	\$4,217.38	0.001340	\$95.30	\$56.54	\$151.84
3707	Olivet	\$73.58	0.000023	\$1.66	\$0.99	\$2.65
3726	Oronogo	\$218.15	0.000069	\$4.88	\$2.90	\$7.78
3846	Pittsburgh Corning	\$2,279.88	0.000725	\$51.52	\$30.57	\$82.09
3858	Plattsburg	\$3,138.42	0.000997	\$70.87	\$42.05	\$112.92
4086	Kansas Gas Marketing	\$18,136.42	0.005764	\$409.82	\$243.15	\$652.97
4107	Reading	\$227.83	0.000072	\$5.15	\$3.05	\$8.20
4440	Savery Gas	\$271.70	0.000086	\$6.14	\$3.64	\$9.78
4672	City Utilities	\$198,964.51	0.063229	\$4,495.92	\$2,667.42	\$7,163.34
6120	Vesta Energy	\$9,332.31	0.002966	\$210.88	\$125.11	\$335.99
5218	Wann Public Works	\$45.21	0.000014	\$1.02	\$0.61	\$1.63
5337	Weyerhaeuser Paper Company	\$110.18	0.000035	\$2.49	\$1.48	\$3.97
5338	Weaco	\$92,480.57	0.010325	\$734.18	\$435.58	\$1,169.76
5830	Brock Gas Systems	\$664.87	0.000211	\$15.03	\$8.91	\$23.94
6515	United Cities	\$207,879.02	0.066062	\$4,687.35	\$2,786.93	\$7,484.28
6576	Ford Motor	\$13,299.30	0.004226	\$300.52	\$178.30	\$478.82
7315	Nebraska Public	\$11,524.81	0.003694	\$262.68	\$155.85	\$418.53
7397	GPM Gas Corp	\$379.98	0.000121	\$8.59	\$5.09	\$13.68
7437	Anadarko Energy Service	\$6,146.17	0.001953	\$138.88	\$82.40	\$221.28
7484	Grove Municipal	\$10,449.45	0.003321	\$236.12	\$140.09	\$376.21
7560	KMGA	\$24,577.78	0.007811	\$555.37	\$329.50	\$884.87
7573	Lawrence Paper	\$493.97	0.000157	\$11.16	\$6.62	\$17.78
7786	Utilicorp Energy Solutions	\$3,414.14	0.001085	\$77.15	\$45.77	\$122.92
7831	MGE	\$1,368,941.23	0.434403	\$30,886.21	\$18,325.89	\$49,214.10
7921	Utilicorp-KPS (2651)	\$89,576.61	0.022111	\$1,572.19	\$932.78	\$2,504.97
7921	Utilicorp-MoPub (3351)	\$98,002.97	0.031145	\$2,214.53	\$1,313.88	\$3,528.41
Total		\$3,146,715.71	1.000000	\$71,105.00	\$42,186.41	\$113,291.41

Schedule 2

Page 2 of 2

**Williams Gas Pipelines Central
Allocation of ITS Refund by Shipper
October 1993
Production Area**

Cust #	Customer Name	Reservation Charge by Customer	%	Principal	Interest	Total ITS Refund
54	Ag Processing	\$2,418.71	0.000588	\$436.52	\$258.99	\$695.51
97	Altamont	\$2,890.16	0.000685	\$485.61	\$288.05	\$773.56
123	American Gas	\$523.71	0.000129	\$94.62	\$56.06	\$150.60
169	Argonne	\$975.50	0.000241	\$176.06	\$104.45	\$280.51
160	Arkla	\$4,598.67	0.001136	\$829.96	\$492.41	\$1,322.36
182	GST Steel	\$4,833.44	0.001194	\$872.32	\$517.55	\$1,389.87
223	Auburn	\$2,717.27	0.000671	\$490.40	\$290.96	\$781.36
227	Avent	\$564.88	0.000140	\$101.95	\$60.48	\$162.43
419	Billings	\$710.67	0.000176	\$128.24	\$76.09	\$204.33
726	Birmingham	\$2,504.42	0.000619	\$451.99	\$268.18	\$720.15
728	Burlington	\$300.33	0.000074	\$54.20	\$32.16	\$86.36
979	Cleveland	\$1,672.68	0.000413	\$301.77	\$179.04	\$480.81
1053	Conoco	\$3,223.82	0.000796	\$581.78	\$346.17	\$928.96
1080	CMS-Continental Natural	\$5,076.50	0.001254	\$918.18	\$543.67	\$1,461.76
1082	Copen	\$1,617.84	0.000375	\$273.83	\$162.62	\$436.45
1295	Danville	\$76.83	0.000019	\$13.89	\$8.12	\$21.61
1272	Dartmouth	\$488.08	0.000120	\$87.73	\$52.05	\$139.78
1711	Ford	\$570.81	0.000141	\$102.68	\$61.10	\$164.08
1818	Gate	\$228.78	0.000057	\$41.29	\$24.60	\$65.79
1838	General Motors	\$18,118.11	0.003982	\$2,908.85	\$1,725.87	\$4,634.82
1934	Rural Water	\$210.44	0.000052	\$37.88	\$22.53	\$60.51
1948	Granby	\$2,350.98	0.000581	\$424.22	\$261.89	\$686.11
1981	Greenley Gas Co.	\$30,928.74	0.007842	\$5,582.10	\$3,311.85	\$8,893.95
2080	Hamilton	\$455.85	0.000113	\$82.29	\$48.82	\$131.11
2344	Howard	\$1,151.58	0.000285	\$207.83	\$123.31	\$331.14
2466	IOLA	\$20,548.09	0.005077	\$3,708.83	\$2,200.32	\$5,908.95
2628	WRI	\$1,871,470.77	0.467112	\$355,804.82	\$211,098.13	\$566,902.95
2876	Kechi	\$988.41	0.000246	\$179.83	\$106.68	\$286.52
2900	Learn Gas	\$8,001.27	0.001877	\$1,444.04	\$866.75	\$2,310.79
2905	Lebo	\$815.78	0.000202	\$147.23	\$87.35	\$234.58
2945	Liberal	\$390.83	0.000097	\$70.54	\$41.86	\$112.39
3007	Mannford	\$1,887.88	0.000412	\$300.92	\$178.54	\$479.46
3245	McLouth	\$1,217.59	0.000301	\$219.75	\$130.38	\$350.13
3407	Bayer	\$1,813.80	0.000389	\$291.25	\$172.80	\$464.05
3472	Mountain Iron	\$18,188.17	0.004483	\$3,282.18	\$1,847.31	\$5,129.49
3481	Mulberry	\$390.83	0.000087	\$70.54	\$41.85	\$112.39
3482	Muhall Natural Gas	\$403.85	0.000100	\$72.88	\$43.24	\$116.13
3508	Neodesha	\$6,812.03	0.001708	\$1,247.48	\$740.12	\$1,987.58
3681	Olton	\$117.25	0.000029	\$21.18	\$12.55	\$33.71
3726	Orlando	\$288.68	0.000087	\$48.87	\$28.87	\$77.54
3728	Oronogo	\$303.84	0.000075	\$54.68	\$32.45	\$87.14
3814	Joyne Phillips Memorial	\$1,583.88	0.000394	\$287.88	\$170.67	\$458.55
3846	Pittsburgh Corning	\$4,633.44	0.001194	\$872.32	\$517.55	\$1,389.87
3868	Plattsburg	\$2,767.08	0.000684	\$489.39	\$295.29	\$784.68
4034	Public Service Co.	\$878.43	0.000143	\$104.39	\$61.84	\$166.23
4080	Ramona Public Works	\$707.18	0.000175	\$127.63	\$75.72	\$203.35
4088	Kansas Gas Marketing	\$23,188.98	0.005728	\$4,184.71	\$2,482.78	\$6,667.49
4268	Nalagany Rural	\$77.88	0.000019	\$14.07	\$8.35	\$22.42
4440	Savery Gas	\$203.28	0.000050	\$36.68	\$21.78	\$58.44
4672	City Utilities	\$45,808.26	0.011244	\$8,213.37	\$4,872.97	\$13,086.34
5088	United States Gypsum	\$15,858.18	0.003814	\$2,858.81	\$1,696.00	\$4,554.81
5073	Questar Energy Trading	\$19,623.50	0.004823	\$3,585.73	\$2,133.34	\$5,719.07
5138	Viola	\$228.34	0.000050	\$41.21	\$24.45	\$65.66
5189	Wekiva	\$898.66	0.000207	\$151.00	\$89.59	\$240.59
5216	Wann Public Works	\$218.74	0.000064	\$39.88	\$23.53	\$63.19
5337	Weyerhaeuser Paper Company	\$235.10	0.000058	\$42.43	\$25.17	\$67.60
5338	Wasco	\$137,137.44	0.033884	\$24,750.13	\$14,684.19	\$39,434.32
5630	Brock Gas Systems	\$1,410.88	0.000349	\$254.58	\$151.04	\$405.62
5637	Vulcan Chemicals	\$32,802.81	0.008105	\$5,820.11	\$3,512.38	\$9,332.50
5873	Union Pacific Fuels	\$152,546.26	0.037891	\$27,531.07	\$16,334.11	\$43,865.18
6513	United Cities	\$168,185.87	0.041555	\$30,353.65	\$18,008.75	\$48,362.40
6578	Ford Motor	\$38,207.70	0.008970	\$6,980.84	\$3,020.38	\$9,001.22
7198	Freedom Municipal	\$480.53	0.000118	\$88.72	\$51.46	\$139.17
7315	Nebraska Public	\$10,815.88	0.002687	\$1,870.06	\$1,188.83	\$3,058.89
7397	GPM Gas Corp	\$27,900.88	0.006894	\$5,036.46	\$2,887.53	\$7,923.99
7437	Anadarko Energy Services	\$14,380.86	0.003548	\$2,581.80	\$1,537.71	\$4,119.51
7484	Grove Municipal	\$22,182.90	0.005476	\$3,999.89	\$2,372.13	\$6,372.02
7580	KMGA	\$38,627.83	0.009766	\$7,133.82	\$4,232.48	\$11,366.30
7573	Lawrence Paper	\$1,047.87	0.000259	\$189.13	\$112.21	\$301.34
7786	Utilicorp Energy Solutions	\$7,878.01	0.001947	\$1,421.80	\$843.55	\$2,265.35
7831	MGE	\$1,009,400.55	0.249403	\$182,173.42	\$108,083.04	\$290,256.46
7821	KPS (2851)	\$87,388.89	0.018952	\$12,163.56	\$7,216.62	\$19,380.20
7921	McPub (3391)	\$87,088.86	0.021668	\$15,827.04	\$9,380.14	\$25,207.18
3852C	Peoples Natural Gas	\$1,297.98	0.000311	\$227.04	\$134.70	\$361.74
Total		\$4,047,287.18	1.000000	\$738,438.00	\$433,367.08	\$1,171,805.08

MISSOURI PUBLIC SERVICE
Northern System Gas Refund

	FIRM	INTERRUPTIBLE	TOTAL
Prior Years Balance (Adjusted)	\$722,982.31	\$36,633.32	\$759,615.63
Actual Gas Refunds:			
Prior Years' Balance	\$647,505.57	\$36,633.32	\$684,138.89
September 1998	\$2,487.94	\$0.00	\$2,487.94
October 1998	\$4,525.16	\$0.00	\$4,525.16
November 1998	\$6,789.89	\$0.00	\$6,789.89
December 1998	\$7,242.79	\$0.00	\$7,242.79
January 1999	\$14,714.06	\$0.00	\$14,714.06
February 1999	\$9,682.13	\$0.00	\$9,682.13
March 1999	\$9,270.64	\$0.00	\$9,270.64
April 1999	\$6,375.93	\$0.00	\$6,375.93
May 1999	\$2,963.69	\$0.00	\$2,963.69
June 1999	\$1,432.92	\$0.00	\$1,432.92
July 1999	\$1,215.53	\$0.00	\$1,215.53
August 1999	\$1,132.05	\$0.00	\$1,132.05
Actual Refunds Through August 1999	\$715,338.30	\$36,633.32	\$751,971.62
Balance as of August 31, 1999	<u>\$7,644.01</u>	<u>\$0.00</u>	<u>\$7,644.01</u>
GR-93-Mcfs			
Firm	1,468,777		1,468,777
Interrupt	-		
Transpo	-		
	<u>1,468,777</u>	Refund Rate Per Gcf	<u>\$0.00052</u>

MPS proposes to change the refund rate from the present rate of \$0.0514/Mcf to \$0.0052/Mcf.

WILLIAMS TAKE OR PAY

Enclosure 7

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Oct-89	\$63,521.76	\$1,094.47	\$0.00	
Nov-89	\$0.00	\$0.00	\$0.00	
Dec-89	\$0.00	\$0.00	\$0.00	
Jan-90	\$0.00	\$0.00	\$0.00	
Feb-90	\$0.00	\$0.00	\$0.00	
Mar-90	\$0.00	\$0.00	\$0.00	
Apr-90	\$0.00	\$0.00	\$18,437.80	
May-90	\$0.00	\$0.00	\$14,578.60	
Jun-90	\$233,925.00	\$62,773.00	\$7,875.80	
Jul-90	\$15,077.00	\$3,295.00	\$5,131.19	
Aug-90	\$12,603.00	\$4,852.00	\$5,136.94	
Sep-90	\$12,603.00	\$2,076.00	\$5,309.17	
Oct-90	\$12,603.00	\$2,033.00	\$8,028.82	
Nov-90	\$0.00	\$0.00	\$16,167.60	
Dec-90	\$0.00	\$0.00	\$26,170.99	
Jan-91	\$0.00	\$0.00	\$50,325.30	
Feb-91	\$0.00	\$0.00	\$36,688.34	
Mar-91	\$0.00	\$0.00	\$27,468.95	
Apr-91	\$12,680.00	\$0.00	\$16,051.32	
May-91	\$0.00	\$0.00	\$10,065.53	
Jun-91	\$0.00	\$0.00	\$111,706.58	
Jul-91	\$0.00	\$0.00	\$14,318.30	
Aug-91	\$0.00	\$0.00	\$9,749.68	
Sep-91	\$0.00	\$0.00	\$11,208.64	
Oct-91	\$0.00	\$0.00	\$15,063.58	
Nov-91	\$0.00	\$0.00	\$28,658.42	
Dec-91	\$0.00	\$0.00	\$37,969.19	
Jan-92	\$0.00	\$0.00	(\$92.00)	
Feb-92	\$0.00	\$0.00	\$0.82	
Mar-92	\$0.00	\$0.00	(\$3.49)	
Apr-92	\$0.00	\$0.00	\$0.00	
May-92	\$0.00	\$0.00	\$0.00	
Jun-92	\$10,520.89	\$0.00	\$0.00	
Jul-92	\$9,995.60	\$577.82	\$0.00	
Aug-92	\$10,051.42	\$582.11	\$0.00	
Sep-92	\$10,193.23	\$492.78	\$0.00	
Oct-92	\$10,329.30	\$407.67	\$0.00	
Nov-92	\$10,335.07	\$468.88	\$0.00	
Dec-92	\$10,525.18	\$334.53	\$0.00	
Jan-93	\$10,638.35	\$276.70	\$0.00	
Feb-93	\$10,765.29	\$199.68	\$0.00	
Mar-93	\$10,854.83	\$165.20	\$0.00	
Apr-93	\$0.00	\$0.00	\$0.00	
May-93	\$0.00	\$0.00	\$0.00	
Jun-93	\$0.00	\$0.00	\$0.00	
Jul-93	\$0.00	\$0.00	\$0.00	
Aug-93	(\$592,341.21)	(\$79,628.84)	\$0.00	

WILLIAMS TAKE OR PAY

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-93	\$0.00	\$0.00	\$0.00	
Oct-93	\$528,001.96	\$0.00	\$0.00	
Nov-93	\$0.00	(\$3,330.08)	(\$4,890.22)	
Dec-93	\$0.00	\$5,781.87	(\$9,804.19)	
Jan-94	\$0.00	\$0.00	(\$13,117.18)	
Feb-94	\$0.00	\$0.00	(\$12,295.64)	
Mar-94	\$0.00	\$0.00	(\$9,450.94)	
Apr-94	\$0.00	\$0.00	(\$5,357.07)	
May-94	\$0.00	\$0.00	(\$4,286.49)	
Jun-94	\$0.00	\$0.00	(\$3,000.82)	
Jul-94	\$0.00	\$0.00	(\$2,483.61)	
Aug-94	\$0.00	\$0.00	(\$2,274.17)	
Sep-94	\$0.00	\$0.00	(\$64.81)	
Oct-94	\$11,359.97	\$5,773.87	\$0.20	
Nov-94	\$11,359.97	\$2,398.67	(\$54.92)	
Dec-94	\$11,359.97	\$2,407.80	\$0.00	
Jan-95	\$11,359.97	\$2,508.92	\$0.00	
Feb-95	\$11,359.97	\$2,197.45	\$0.00	
Mar-95	\$11,359.97	\$2,447.60	\$2,178.77	
Apr-95	\$13,557.42	\$2,413.73	\$11,048.42	
May-95	\$11,359.97	\$2,409.66	\$8,168.50	
Jun-95	\$11,359.97	\$2,250.98	\$5,929.50	
Jul-95	\$11,359.97	\$2,327.71	\$4,779.12	
Aug-95	\$11,359.97	\$2,240.88	\$4,197.63	
Sept-95	\$11,359.97	\$2,084.56	\$4,681.26	
Oct.-95	\$11,359.97	\$2,032.76	\$5,919.45	
Nov.-95	\$17,601.97	\$5,220.65	\$10,378.18	
Dec-95	\$17,601.97	\$3,504.23	\$16,639.21	
Jan-96	\$17,601.97	\$3,333.82	\$22,083.44	
Feb-96	\$86,601.97	\$2,979.06	\$22,131.09	
Mar-96	\$17,601.97	\$2,305.43	\$17,017.10	
Apr-96	\$17,601.97	\$2,125.10	\$14,567.11	
May-96	\$91,030.97	\$3,081.26	\$8,510.13	
Jun-96	\$17,601.97	\$2,024.44	\$5,773.23	
Jul-96	\$17,601.97	\$1,924.47	\$4,816.53	
Aug-96	\$17,601.97	\$1,733.80	\$4,622.52	

WILLIAMS TAKE OR PAY

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-96	\$17,601.97	\$1,614.77	\$5,298.55	
Oct.-96	\$17,601.97	\$1,445.88	\$8,511.05	
Nov.-96	\$17,601.97	\$2,100.66	\$25,365.46	
Dec-96	\$17,601.97	\$1,781.76	\$63,585.80	
Jan-97	\$17,601.97	\$1,663.30	\$78,844.98	
Feb-97	\$17,601.97	\$1,639.32	\$54,775.71	
Mar-97	\$17,601.97	\$959.66	\$57,772.38	
Apr-97	\$17,601.97	\$1,293.30	\$45,105.52	
May-97	\$17,601.97	\$1,056.75	\$36,771.65	
Jun-97	\$17,601.97	\$1,114.15	\$20,666.51	
Jul-97	\$17,601.97	\$907.16	\$17,016.43	
Aug-97	\$16,503.28	\$817.42	\$16,333.28	
Sep-97	\$16,503.28	\$699.26	\$16,493.49	
Oct-97	\$6,242.00	\$546.72	\$20,172.40	
Nov-97	\$6,242.00	\$558.31	\$23,883.11	
Dec-97	\$6,242.00	\$478.91	\$18,918.23	
Jan-98	\$6,242.00	\$421.66	\$19,245.23	
Feb-98	\$56,194.90	\$431.85	\$18,381.97	
Feb-98 *	\$0.00	\$0.00	(\$26,009.53)	
Mar-98	\$0.00	\$0.00	\$17,363.99	
Apr-98	\$0.00	\$0.00	\$14,214.24	
May-98	\$0.00	\$0.00	\$8,267.35	
Jun-98	\$0.00	\$0.00	\$5,982.74	
Jul-98	\$0.00	\$0.00	\$5,814.63	
Aug-98	\$0.00	\$0.00	\$5,101.40	
Total	\$1,178,999.56	\$83,709.48	\$1,160,253.97	\$102,455.07
Less Settlement for GR-93-172			\$47,095.45	
Less Interest Per Settlement for GR-93-189			\$2,144.46	
Refund including interest effective with 3/21/95 rates			\$54,411.84	
Total	\$1,178,999.56	\$83,709.48	\$1,263,905.72	(\$1,196.68)

WILLIAMS TAKE OR PAY

Total	\$1,178,999.56	\$83,709.48	\$1,263,905.72	(\$1,196.68)
Sep-98 - actual recovery			5,678.46	
Oct-98 - estimated recovery			6,722.52	
Total Liability	<u>\$1,178,999.56</u>	<u>\$83,709.48</u>	<u>\$1,276,306.70</u>	(\$13,597.66)

Over Recovery in the amount of 13,597.66 transferred to the 97-98 annual ACA calculation.

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

98-99 ACA Year

Reversal of Oct-98 estimated recovery	(6,722.52)
Actual Recovery	
Sep-98 adj**	(0.07)
Oct-98	6,203.48
Nov-98	5,585.86
Dec-98	(1.43)
Jan-99	(0.60)
Feb-99	0.32
Mar-99	(0.08)
Apr-99	0.02
Feb-98/Aug-98 adj**	17.47
May-99	(0.03)
Jun-99	-
Jul-99	(0.08)
Aug-99	-
Total Additional Over Recovery	<u>5,082.34</u>

Over Recovery in the amount of 5,082.34 transferred to the 98-99 annual ACA calculation.

**1998 Adjustment for company use gas.

WILLIAMS TRANSITION COSTS

Enclosure 8

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.

PANHANDLE TAKE OR PAY

Enclosure 9

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Dec-88	13,383.64	8,898.89	0.00	
Jan-89	4,461.22	2,966.29	0.00	
Feb-89	11,105.97	4,608.02	0.00	
Mar-89	11,082.25	(179.90)	0.00	
Apr-89	6,184.55	4,123.90	0.00	
May-89	6,184.56	4,123.89	0.00	
Jun-89	12,901.25	(450.01)	0.00	
Jul-89	19,107.11	3,148.05	0.00	
Aug-89	11,121.48	3,578.38	0.00	
Sep-89	10,983.54	3,578.37	0.00	
Oct-89	10,983.54	4,221.01	0.00	
Nov-89	10,983.54	4,221.01	0.00	
Dec-89	10,983.54	6,008.12	0.00	
Jan-90	22,901.52	10,828.34	0.00	
Feb-90	14,167.24	4,762.16	0.00	
Mar-90	12,307.76	6,569.68	11,647.51	
Apr-90	12,307.76	6,569.68	12,044.74	
May-90	13,259.74	5,730.55	7,049.31	
Jun-90	13,164.87	6,261.64	3,498.57	
Jul-90	12,362.75	6,845.65	2,623.07	
Aug-90	12,362.75	6,845.65	2,256.94	
Sep-90	12,630.18	6,860.89	2,464.80	
Oct-90	15,713.62	3,607.78	4,102.40	
Nov-90	13,846.29	5,440.79	8,477.29	
Dec-90	0.00	0.00	13,657.07	
Jan-91	19,304.24	0.00	27,663.57	
Feb-91	18,768.75	10,205.91	19,108.96	
Mar-91	0.00	0.00	14,014.71	
Apr-91	56,009.57	15,211.89	8,068.84	
May-91	56,009.57	13,089.24	4,879.98	
Jun-91	56,009.57	14,973.74	70,269.26	
Jul-91	56,009.57	12,929.47	8,547.89	
Aug-91	56,009.57	12,181.19	6,011.41	
Sep-91	56,009.57	12,104.82	6,343.79	
Oct-91	56,009.57	10,701.81	8,816.28	
Nov-91	9,802.42	0.00	16,260.97	
Dec-91	9,802.42	4,223.10	21,787.61	
Jan-92	9,802.42	2,183.83	24,270.30	
Feb-92	9,802.42	2,172.71	23,286.19	
Mar-92	9,802.42	2,046.22	17,444.84	
Apr-92	9,802.42	1,843.43	14,980.19	
May-92	9,802.42	1,624.63	10,405.82	
Jun-92	9,802.42	1,622.82	8,443.50	
Jul-92	9,802.42	1,480.32	7,861.66	
Aug-92	9,802.42	1,457.10	7,347.64	

PANHANDLE TAKE OR PAY

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-92	9,802.42	1,465.12	2,644.61	
Oct-92	9,802.42	1,261.46	11,589.09	
Nov-92	9,802.42	1,287.26	17,922.26	
Dec-92	23,103.42	1,140.21	23,966.79	
Jan-93	23,103.42	11,774.72	28,438.34	
Feb-93	23,103.42	4,918.43	26,065.64	
Mar-93	23,103.42	4,465.10	25,973.94	
Apr-93	9,802.42	949.09	18,786.88	
May-93	36,404.42	8,314.81	10,305.70	
Jun-93	23,103.42	4,447.50	6,199.08	
Jul-93	23,103.42	4,190.10	4,840.78	
Aug-93	23,103.42	4,212.03	5,772.03	
Sep-93	23,103.42	4,094.30	5,785.36	
Oct-93	23,103.42	3,848.29	8,073.82	
Nov-93	23,103.42	3,858.83	25,876.03	
Dec-93	23,103.42	3,620.43	46,943.33	
Jan-94	23,103.42	3,623.37	63,768.64	
Feb-94	23,103.42	3,505.64	60,130.75	
Mar-94	23,103.42	3,060.04	47,780.30	
Apr-94	23,103.42	3,270.17	25,413.97	
May-94	23,103.42	3,050.75	21,185.84	
Jun-94	23,103.42	3,034.71	14,880.10	
Jul-94	23,103.42	2,979.71	14,285.50	
Aug-94	23,103.42	3,032.51	12,244.28	
Sep-94	23,103.42	2,904.97	10,982.01	
Oct-94	23,103.27	2,826.79	15,524.97	
Nov-94	13,301.00	3,398.00	27,123.31	
Dec-94	13,301.00	2,815.56	44,360.01	
Jan-95	13,301.00	3,001.18	57,518.32	
Feb-95	13,301.00	2,945.42	62,840.91	
Mar-95	13,301.00	2,597.78	46,377.62	
Apr-95	13,301.00	2,946.38	36,933.50	
May-95	13,301.00	2,851.82	25,851.65	
Jun-95	13,301.00	2,848.94	17,587.65	
Jul-95	13,301.00	2,729.81	13,030.02	
Aug-95	13,301.00	2,754.04	10,687.19	

PANHANDLE TAKE OR PAY

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-95	13,301.00	2,652.37	14,644.99	
Oct-95	13,301.00	2,440.98	17,280.70	
Nov-95	13,301.00	2,408.21	31,446.48	
Dec-95	13,301.00	2,233.77	56,191.43	
Jan-96	13,301.00	2,192.15	60,964.96	
Feb-96	13,301.00	2,078.76	72,049.52	
Mar-96	13,301.00	1,852.43	54,842.94	
Apr-96	13,301.00	1,842.76	46,257.55	
May-96	13,301.00	1,670.30	26,551.62	
Jun-96	13,301.00	1,630.55	17,581.13	
Jul-96	13,301.00	1,459.88	14,653.54	
Aug-96	13,301.00	1,402.31	14,214.51	
Sep-96	13,301.00	1,276.01	15,459.76	
Oct-96	13,301.00	1,225.58	18,614.44	
Nov-96	13,301.00	997.30	38,581.46	
Dec-96	13,301.00	1,040.35	65,177.54	
Jan-97	13,301.00	846.97	78,051.37	
Feb-97	13,301.00	680.82	77,698.54	
Mar-97	13,301.00	660.57	51,372.77	
Apr-97	13,301.00	549.07	41,396.66	
May-97	13,301.00	474.17	29,493.99	
Jun-97	13,301.00	374.05	19,622.23	
Jul-97	13,301.00	294.06	16,422.05	
Aug-97	13,301.00	198.83	16,514.25	
Sep-97	13,301.00	100.81	16,784.86	
Oct-97	1,168.00	8.43	18,531.12	
Nov-97	0.00	0.00	21,583.59	
Dec-97	0.00	0.00	13,495.45	
Jan-98	0.00	0.00	6,391.13	
Feb-98	0.00	0.00	9,225.25	
Feb-98 *	0.00	0.00	6,716.14	
Mar-98	0.00	0.00	9,045.91	
Apr-98	0.00	0.00	7,061.94	
May-98	0.00	0.00	3,928.08	
Jun-98	0.00	0.00	2,907.70	
Jul-98	0.00	0.00	3,234.06	
Aug-98	0.00	0.00	3,266.66	
Total	1,850,143.62	395,837.82	2,308,581.65	(62,600.21)

PANHANDLE TAKE OR PAY

Total	1,850,143.62	395,837.82	2,308,581.65	(62,600.21)
Sep-98 - actual recovery			2,364.41	
Oct-98 - estimated recovery			2,704.32	
Total Liability	<u>\$1,850,143.62</u>	<u>\$395,837.82</u>	<u>\$2,313,650.38</u>	<u>(\$67,668.94)</u>

Over Recovery in the amount of 67,668.94 transferred to the 97-98 annual ACA calculation.

* Adjusting entry to correct Mar - May 97 and Jul - Aug 97 Total Recovery amounts.

98-99 ACA Year

Reversal of Oct-98 estimated recovery	(2,704.32)
Actual Recovery	
Sep-98 adj**	(0.03)
Oct-98	3,150.30
Nov-98	3,155.72
Dec-98	(3.42)
Jan-99	-
Feb-99	(0.02)
Mar-99	-
Apr-99	-
Feb-98/Aug-98 adj**	8.27
May-99	-
Jun-99	-
Jul-99	-
Aug-99	-
Total Additional Over Recovery	<u>3,606.50</u>

Over Recovery in the amount of 3,606.50 transferred to the 98-99 annual ACA calculation.

**1998 Adjustment for company use gas.

PANHANDLE TRANSITION COSTS**Enclosure 10**

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-93	8,837.00	0.00	0.00	
Oct-93	10,673.00	4,042.35	0.00	
Nov-93	10,673.00	260.62	0.00	
Dec-93	10,673.00	526.35	0.00	
Jan-94	10,673.00	489.51	0.00	
Feb-94	10,673.00	435.12	0.00	
Mar-94	10,673.00	343.88	0.00	
Apr-94	10,673.00	326.34	0.00	
May-94	10,673.00	263.18	0.00	
Jun-94	10,673.00	217.56	0.00	
Jul-94	10,673.00	166.69	0.00	
Aug-94	10,673.00	117.85	0.00	
Sep-94	10,675.00	58.93	0.00	
Oct-94	0.00	57.34	0.00	
Nov-94	0.00	4.94	4,854.25	
Dec-94	0.00	0.00	15,415.64	
Jan-95	0.00	0.00	19,987.91	
Feb-95	0.00	0.00	21,837.95	
Mar-95	0.00	0.00	16,116.38	
Apr-95	0.00	0.00	12,849.13	
May-95	0.00	0.00	8,990.65	
Jun-95	0.00	0.00	6,115.07	
Jul-95	0.00	0.00	4,530.46	
Aug-95	0.00	0.00	3,717.14	
Sep-95	0.00	0.00	5,091.47	
Oct-95	0.00	0.00	6,008.72	
Nov-95	0.00	0.00	10,946.03	
Dec-95	0.00	0.00	2,288.39	
Jan-96	0.00	0.00	34.94	
Feb-96	0.00	0.00	37.75	
Mar-96	0.00	0.00	28.40	
Apr-96	43,159.00	1,496.59	19.07	
May-96	0.00	0.00	4.97	
Jun-96	0.00	0.00	0.62	
Jul-96	0.00	0.00	0.17	
Aug-96	0.00	0.00	0.16	

PANHANDLE TRANSITION COSTS

Date	Total Principal All Dockets	Total Interest All Dockets	Total Recovery	Net Balance
Sep-96	0.00	0.00	0.26	
Oct-96	0.00	0.00	0.18	
Nov-96	0.00	0.00	2,100.46	
Dec-96	0.00	0.00	7,044.70	
Jan-97	0.00	0.00	8,455.00	
Feb-97	0.00	0.00	8,436.79	
Mar-97	0.00	0.00	5,556.45	
Apr-97	0.00	0.00	4,468.84	
May-97	0.00	0.00	3,178.39	
Jun-97	0.00	0.00	2,111.25	
Jul-97	0.00	0.00	1,765.88	
Aug-97	0.00	0.00	1,776.32	
Sep-97	0.00	0.00	1,805.00	
Oct-97	0.00	0.00	1,992.62	
Nov-97	0.00	0.00	2,179.10	
Dec-97	0.00	0.00	1,153.04	
Jan-98	0.00	0.00	286.63	
Feb-98	0.00	0.00	642.22	
Feb-98 *	0.00	0.00	722.80	
Mar-98	0.00	0.00	630.34	
Apr-98	0.00	0.00	491.97	
May-98	0.00	0.00	272.84	
Jun-98	0.00	0.00	195.09	
Jul-98	0.00	0.00	216.57	
Aug-98	0.00	0.00	217.11	
Total	180,074.00	8,807.25	194,575.12	(5,693.87)

PANHANDLE TRANSITION COSTS

Total	180,074.00	8,807.25	194,575.12	(5,693.87)
Sep-98 - actual recovery			152.67	
Oct-98 - estimated recovery			174.62	
Total Liability	<u>\$180,074.00</u>	<u>\$8,807.25</u>	<u>\$194,902.41</u>	<u>(\$6,021.16)</u>

Over Recovery in the amount of 6,021.16 transferred to the 97-98 annual ACA calculation.

* Adjusting entry to correct Apr 97 and Jul - Aug 97 Total Recovery amounts.

98-99 ACA Year

Reversal of Oct-98 estimated recovery	(174.62)
Actual Recovery	
Sep-98 adj**	(0.25)
Oct-98	216.17
Nov-98	219.36
Dec-98	(0.22)
Jan-99	-
Feb-99	-
Mar-99	-
Apr-99	2.22
Feb-98/Aug-98 adj**	67.42
May-99	0.54
Jun-99	0.02
Jul-99	-
Aug-99	-
Total Additional Over Recovery	<u>330.64</u>

Over Recovery in the amount of 330.64 transferred to the 98-99 annual ACA calculation.

**1998 Adjustment for company use gas.

**Missouri Public Service
Southern System
Deferred Carrying Cost Balance (DCCB) Calculation
1998-99 ACA Year**

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Annual Gas Cost Level													
Gas Cost from Nov 98 ACA calculation	12,833,040												
Gas Cost from Nov 97 ACA calculation	15,425,365												
Gas Cost from Nov 96 ACA calculation	13,027,778												
Average of 3 most recent gas cost calculations	<u>13,762,061</u>												
	10%												
10% of average annual gas cost threshold	1,376,206												
Sales Volumes (in Mcf)	87,983	110,047	234,910	352,412	817,052	515,447	480,235	351,127	183,773	86,038	85,064	76,012	3,380,099
Cost of Gas Purchased and Produced	474,661	690,960	1,136,993	1,828,648	2,197,695	1,520,848	1,522,817	763,810	603,542	498,597	449,092	473,961	12,161,625
PGA - Estimated Annualized Unit Cost of Gas	\$3,2238	\$3,2238	\$3,2351	\$3,3783	\$3,4117	\$3,4117	\$3,4117	\$3,3586	\$2,9155	\$2,8270	\$2,8270	\$2,8270	\$2,8270
Actual Annualized Unit Cost of Gas	5,3949	6,2788	4,8401	5,1890	2,6898	2,9505	3,1710	2,1753	3,2842	5,7951	5,2795	6,2354	5,2795
Difference	-2,1711	-3,0550	-1,6050	-1,8106	0,7219	0,4612	0,2407	1,1813	-0,3686	-2,9681	-2,4525	-3,4084	-3,4084
Actual Sales Volumes	87,983	110,047	234,910	352,412	817,052	515,447	480,235	351,127	183,773	86,038	85,064	76,012	
DCCB Monthly Over/(Under) Recovery	(191,022)	(336,190)	(377,042)	(638,087)	589,842	237,702	115,601	414,773	(67,745)	(255,367)	(208,617)	(259,076)	
1997-98 DCCB Yr. to Date Over/(Under) Recovery	(191,022)	(527,212)	(904,254)	(1,542,341)	(952,498)	(714,797)	(599,195)	(184,422)	(252,168)	(507,535)	(716,152)	(975,227)	
10% of average annual gas cost threshold	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	1,376,206	
Absolute Value Rcvry Bal that exceeds threshold	-	-	-	166,135	-	-	-	-	-	-	-	-	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	-	(166,135)	-	-	-	-	-	-	-	-	
Interest at Prime Rate - Wall Street Journal - 1%	7.25%	7.00%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	7.00%	7.00%	7.25%	
Carrying Costs Refunded/(Collected)	-	-	-	(935)	-	-	-	-	-	-	-	-	(935)
DCCB Percent of Avg Annual Gas Costs	-1.39%	-3.83%	-6.57%	-11.21%	-8.92%	-5.19%	-4.35%	-1.34%	-1.83%	-3.68%	-5.20%	-7.09%	

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

Missouri Public Service
Prior Period Adjustment Summary
98-99 ACA Year

Southern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 98-99 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 98 ACA calculation	12,815,627.94	12,161,624.61	DCCB Cost of Gas
Adjustments:			
5/99 tracker - 4/98 ppa credit for swing pool gas	(3,952.44)	(3,952.44)	
5/99 tracker - 4/98 ppa debit for storage costs	29.56	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		
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		
Gas Cost from Nov 96 ACA calculation	13,218,765.00		
Adjustments:			
11/98 tracker - credit for Case No. GR-96-192	(190,000.00)	(190,000.00)	
10/95 tracker - ppa for 4/95-6/95 (f)	(595.08)		
6/96 tracker - ppa for 2/95-3/95 (g)	(391.71)		
Total Adjusted Gas Cost Nov 96 ACA	13,027,778.21		
Adjustment related to time period prior to 95-96 ACA			
10/95 tracker - ppa for 4/95-6/95 (f)	595.08		
6/96 tracker - ppa for 2/95-3/95 (g)	391.71		
		11,967,701.73	Adjusted Cost of Gas
		11,967,701.73	Sched. 1 Cost of Gas
		-	Difference

**Missouri Public Service
Northern System
Deferred Carrying Cost Balance (DCCB) Calculation
1998-99 ACA Year**

Annual Gas Cost Level	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Gas Cost from Nov 98 ACA calculation	5,260,714												
Gas Cost from Nov 97 ACA calculation	6,177,967												
Gas Cost from Nov 96 ACA calculation	5,514,355												
Average of 3 most recent gas cost calculations	5,651,012												
10%													
10% of average annual gas cost threshold	565,101												
Sales Volumes (in Mcf)	19,068	34,686	78,804	141,129	286,456	188,492	180,456	124,097	57,649	27,791	23,555	21,900	1,184,082
Cost of Gas Purchased and Produced	191,722	265,884	387,663	472,259	966,445	582,650	554,971	286,280	278,513	206,027	218,063	223,908	4,634,366
PGA - Estimated Annualized Unit Cost of Gas	\$3,6640	\$3,6620	\$3,6606	\$3,6192	\$3,6066	\$3,6066	\$3,6066	\$3,5807	\$3,2277	\$3,1534	\$3,1534	\$3,1534	
Actual Annualized Unit Cost of Gas	10,0546	7,6655	4,9183	3,3463	3,3738	3,0911	3,0754	2,3069	4,8312	7,4135	9,2577	10,2243	
Difference	-6,3906	-4,0015	-1,2573	0,2729	0,2328	0,5155	0,5312	1,2538	-1,6035	-4,2601	-6,1043	-7,0709	
Actual Sales Volumes	19,068	34,686	78,804	141,129	286,456	188,492	180,456	124,097	57,649	27,791	23,555	21,900	
DCCB Monthly Over/(Under) Recovery	(121,857)	(138,795)	(99,079)	38,512	66,685	97,164	95,861	155,589	(92,442)	(118,391)	(143,785)	(154,850)	
1998-99 DCCB Yr to Date Over/(Under) Recovery	(121,857)	(260,651)	(359,731)	(321,219)	(254,533)	(157,370)	(61,509)	94,080	1,639	(116,753)	(260,538)	(415,388)	
10% of average annual gas cost threshold	565,101	565,101	565,101	565,101	565,101	565,101	565,101	565,101	565,101	565,101	565,101	565,101	
Absolute Value Rcvry Bal that exceeds threshold	-	-	-	-	-	-	-	-	-	-	-	-	
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	-	-	-	-	-	-	-	-	-	-	
Interest at Prime Rate - Wall Street Journal - 1%	7.25%	7.00%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	7.00%	7.00%	7.25%	
Carrying Costs Refunded/(Collected)	-	-	-	-	-	-	-	-	-	-	-	-	
DCCB Percent of Avg Annual Gas Costs	-2.16%	-4.61%	-6.37%	-5.68%	-4.50%	-2.78%	-1.09%	1.66%	0.03%	-2.07%	-4.61%	-7.35%	

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

Missouri Public Service
Period Adjustment Summary
98-99 ACA Year

Northern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 98-99 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 98 ACA calculation	5,176,027.31	4,634,385.80	DCCB Cost of Gas
Adjustments:			
9/98 tracker - 5/98 ppa debit for Aquila invoice	1,190.88	1,190.88	
9/98 tracker - 8/98 ppa debit for transportation	26.37	26.37	
9/98 tracker - 7/98 ppa debit for transportation	2,256.16	2,256.16	
10/98 tracker - 8/98 ppa debit for transportation	2.88	2.88	
2/99 tracker - 11/97 ppa credit for Duke invoice	(146,459.85)	(146,459.85)	
2/99 tracker - 12/97 ppa debit for Southern invoice	3,611.50	3,611.50	
2/99 tracker - 11/97 ppa credit for Aquila invoice	(6,748.28)	(6,748.28)	
3/99 tracker - 11/97-7/98 ppa credits for transportation	(15,158.73)	(15,158.73)	
4/99 tracker - 12/97 ppa credit for capacity release	(82.42)	(82.42)	
4/99 tracker - 12/97 ppa debit for transportation	173.86	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)	(67,672.64)
3/99 tracker - 3/97 ppa debit for overrun charge	3,600.00	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

Gas Cost from Nov 96 ACA calculation	5,703,855.00	
Adjustments:		
2/97 tracker - ppa for 2/96 (g)	(188,880.98)	
3/97 tracker - ppa for 8/96 (h)	(1,430.73)	
4/96 tracker - ppa for 6/95 (i)	1,855.12	
7/96 tracker - ppa for 7/94-10/94 (j)	(1,043.07)	

Total Adjusted Gas Cost Nov 96 ACA 5,514,355.34

Adjustment related to time period prior to 95-96 ACA

8/98 tracker - ppa for 6/95-8/95 (f)	(95,901.00)
4/96 tracker - ppa for 6/95 (i)	(1,855.12)
7/96 tracker - ppa for 7/94-10/94 (j)	1,043.07

4,409,125.53 Adjusted Cost of Gas

4,409,125.53 Sched. 1 Cost of Gas

- Difference

ESOCB

**Missouri Public Service
Eastern System
Deferred Carrying Cost Balance (DCCB) Calculation
1998-99 ACA Year**

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Annual Gas Cost Level													
Gas Cost from Nov 98 ACA calculation	1,484,792												
Gas Cost from Nov 97 ACA calculation	1,181,660												
Gas Cost from Nov 96 ACA calculation	341,809												
Average of 3 most recent gas cost calculations	<u>1,002,754</u>												
	10%												
10% of average annual gas cost threshold	100,275												
Sales Volumes (in Mcf)													
Cost of Gas Purchased and Produced	7,364	8,177	14,861	34,803	70,231	59,420	53,430	43,317	19,932	10,862	6,889	7,930	337,215
	66,422	103,222	186,868	229,344	370,374	246,853	251,673	113,035	100,549	89,330	86,342	83,364	1,927,398
PGA - Estimated Annualized Unit Cost of Gas													
Actual Annualized Unit Cost of Gas	\$4,8592	\$4,8592	\$4,8588	\$4,6510	\$4,5286	\$4,5286	\$4,5286	\$4,5211	\$3,9969	\$3,7786	\$3,7786	\$3,7786	\$3,7786
Difference	9,0194	12,6239	12,5761	6,5899	5,2736	4,1544	4,7104	2,6095	5,0446	8,2240	12,5330	10,5126	10,5126
	-4,1602	-7,7647	-7,7173	-1,9389	-0,7450	0,3742	-0,1818	1,9116	-1,0478	-4,4454	-8,7544	-6,7340	-6,7340
Actual Sales Volumes													
	7,364	8,177	14,861	34,803	70,231	59,420	53,430	43,317	19,932	10,862	6,889	7,930	7,930
DCCB Monthly Over/(Under) Recovery													
	(30,637)	(63,489)	(114,664)	(67,478)	(52,325)	22,235	(9,711)	82,805	(20,885)	(48,287)	(60,311)	(53,400)	(53,400)
1998-99 DCCB Yr to Date Over/(Under) Recovery													
	(30,637)	(94,127)	(208,810)	(276,286)	(328,613)	(306,377)	(316,089)	(233,284)	(254,169)	(302,456)	(362,767)	(416,166)	(416,166)
10% of average annual gas cost threshold	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275	100,275
Absolute Value Rcvry Bal that exceeds threshold	-	-	108,535	176,013	228,337	206,102	215,813	133,009	153,894	202,181	262,491	315,891	315,891
Over/(Und) Rcvry Bal that exceeds 10% threshold	-	-	(108,535)	(176,013)	(228,337)	(206,102)	(215,813)	(133,009)	(153,894)	(202,181)	(262,491)	(315,891)	(315,891)
Interest at Prime Rate - Wall Street Journal - 1%	7,25%	7,00%	6,75%	6,75%	6,75%	6,75%	6,75%	6,75%	6,75%	7,00%	7,00%	7,25%	7,25%
Carrying Costs Refunded/(Collected)	-	-	(611)	(980)	(1,284)	(1,159)	(1,214)	(748)	(866)	(1,176)	(1,531)	(1,909)	(11,491)
DCCB Percent of Avg Annual Gas Costs	-3,06%	-9,39%	-20,82%	-27,55%	-32,77%	-30,55%	-31,52%	-23,26%	-25,35%	-30,16%	-36,18%	-41,50%	-41,50%

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

Missouri Public Service
Period Adjustment Summary
98-99 ACA Year

Eastern System

	Annual Gas Cost Level Adjustment Summary	Reconciliation of ACA 98-99 Cost of Gas on DCCB to Schedule 1	
Gas Cost from Nov 98 ACA calculation	1,822,414.16	1,927,395.57	DCCB Cost of Gas
Adjustments:			
9/98 tracker - 98 portion of PEPL pipeline credit	(234,421.43)	(234,421.43)	
9/98 tracker - 8/98 ppa debit for H & P invoice	29.33	29.33	
9/98 tracker - 2/98 ppa credit for H & P invoice	(538.65)	(538.65)	
9/98 tracker - 12/97 ppa credit for MoPipe invoice	(7,012.11)	(7,012.11)	
12/98 tracker - 10/97 ppa credit for Aquila invoice	(76.59)	(76.59)	
3/99 tracker - 12/97 ppa credit for MoGas invoice	(6,190.80)	(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	1,484,792.23		
Gas Cost from Nov 97 ACA calculation	1,232,612.00		
Adjustments:			
9/98 tracker - 97 portion of PEPL pipeline credit	(65,558.57)	(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		
Gas Cost from Nov 96 ACA calculation	367,884		
Adjustments:			
9/98 tracker - 96 portion of PEPL pipeline credit	(4,979.26)	(4,979.26)	
11/98 tracker - credit for Case No. GR-96-192	-	-	
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		
Total Adjusted Gas Cost Nov 96 ACA	341,809.10		
Adjustment related to time period prior to 95-96 ACA			
9/98 tracker - 95 portion of PEPL pipeline credit	(39,477.57)	(39,477.57)	
8/98 tracker - ppa for 7/95 (d)	95,901.00		
		1,569,169.92	Adjusted Cost of Gas
		1,927,296.91	Sched. 1 Cost of Gas
Remove prior yr's credit reversal to reflect curr yr only		(358,126.99)	
		1,569,169.92	Adjusted Sched. 1
		(0.00)	Difference

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

**Missouri Public Service
Northern System
1999-2000 Winter Season Revenue Impact from Winter PGA Filing**

Month	PGA Factor	Month	PGA Factor	PGA Change (11/99)	Revenue Impact (Summer Season)
Nov-98	3.0414	Nov-99	4.1366	1.0952	130,029
Dec-98	3.0414	Dec-99	4.1366	1.0952	239,950
Jan-99	3.0414	Jan-00	4.1366	1.0952	316,359
Feb-99	3.0414	Feb-00	4.1366	1.0952	290,889
Mar-99	3.0414	Mar-00	4.1366	1.0952	213,140

Estimated Winter Season Change in Revenue 1,190,367

Percent Change Between PGA Factors 36.01%

Firm Sales Volume @ Burnertip 1,468,777

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

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

**Missouri Public Service
Eastern System
1999-2000 Winter Season Revenue Impact from Winter PGA Filing**

Month	PGA Factor	Month	PGA Factor	PGA Change (11/99)	Revenue Impact (Summer Season)
Nov-98	5.1261	Nov-99	6.1489	1.0228	51,630
Dec-98	5.1261	Dec-99	6.1489	1.0228	95,276
Jan-99	5.1261	Jan-00	6.1489	1.0228	125,616
Feb-99	5.1261	Feb-00	6.1489	1.0228	115,503
Mar-99	5.1261	Mar-00	6.1489	1.0228	84,631

Estimated Winter Season Change in Revenue 472,656

Percent Change Between PGA Factors 19.95%

Firm Sales Volume @ Burnertip

624,486

Month	Estimated Customer Usage Mcf/Mnth	Estimated % Mcf/Yr	Estimated Company Sales Mcf/Mnth
Jan	23.6	19.67%	122,816
Feb	21.7	18.08%	112,928
Mar	15.9	13.25%	82,744
Apr	9.6	8.00%	49,959
May	5.3	4.42%	27,581
Jun	3.6	3.00%	18,735
Jul	2.8	2.33%	14,571
Aug	2.7	2.25%	14,051
Sep	3	2.50%	15,612
Oct	4.2	3.50%	21,857
Nov	9.7	8.08%	50,479
Dec	17.9	14.92%	93,152
TOTAL	120	100%	624,486

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