



a PPL company

Gwen R. Pinson
Executive Director
Public Service Commission of Kentucky
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40601

December 27, 2019

Re: Performance Based Ratemaking Mechanism

Dear Ms. Pinson:

Louisville Gas and Electric Company (“LG&E”) is filing support for LG&E’s Performance Based Ratemaking (“PBR”) mechanism as approved pursuant to the Order dated June 30, 2015, in Case No. 2014-00476. LG&E encloses herewith an original and ten copies of the PBR mechanism quarterly activity report. This report is a summary of LG&E’s activity under the PBR mechanism for the period beginning November 1, 2018 and ending October 31, 2019.

If you have any questions regarding this matter, please contact Clay Murphy, Director of Gas Management, Planning, and Supply at (502) 627-2424.

Sincerely,

Andrea M. Fackler

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DEC 27 2019

PUBLIC SERVICE
COMMISSION

Louisville Gas and
Electric Company
State Regulation and Rates
220 West Main Street
PO Box 32010
Louisville, Kentucky 40232
www.lge-ku.com

Andrea M. Fackler
Manager, Revenue
Requirement/Cost of Service
T 502-627-3442
F 502-627-3213
andrea.fackler@lge-ku.com

**Activity Under LG&E’s Performance-Based Ratemaking (“PBR”) Mechanism
for the PBR Period for the 12 Months Ended October 31, 2019**

Attached is a summary of LG&E’s activity and the supporting documentation for the PBR mechanism covering the entirety of PBR Year 22 (November 1, 2018, through October 31, 2019) of LG&E’s gas supply cost PBR mechanism. LG&E is making this annual filing in accordance with the Order in Case No. 2014-00476 dated June 30, 2015. This information has also been used as the basis for the calculation and filing of the applicable PBR Recovery Component (“PBRRC”) effective February 1, 2020.

General Discussion: The results for this PBR period cannot and should not be extrapolated for subsequent PBR periods. The results shown in this filing compare the various calculated benchmarks against actual gas costs for each PBR component by month. The actual gas costs and volumes set forth herein do not correspond to the dollars and volumes actually booked and reported by LG&E as purchased gas costs for the period as reported in LG&E’s Gas Supply Clause (“GSC”). In order to match actual costs with the appropriate monthly benchmarks, the actual costs and volumes used herein reflect adjustments made to LG&E’s costs and volumes, not in the month the adjustments were made and booked, but in the month for which the adjustments were applicable.

Information Required to be Reported: As required by the Commission, the following information is being supplied as a part of this filing.

Calculated Results: During the 12 months ended October 31, 2019, LG&E has achieved the following results:

	<u>PBR-GAIF</u>	<u>PBR-TIF</u>	<u>PBR-OSSIF</u>	<u>Total</u>
<i>Nov. 2018</i>	<i>\$1,531,382</i>	<i>\$204,716</i>	<i>\$149,500</i>	<i>\$1,885,598</i>
<i>Dec.</i>	<i>\$493,237</i>	<i>\$204,716</i>	<i>\$0</i>	<i>\$697,953</i>
<i>Jan. 2019</i>	<i>\$654,858</i>	<i>\$204,716</i>	<i>\$0</i>	<i>\$859,574</i>
<i>Qtr. Subtotal</i>	<i>\$2,679,477</i>	<i>\$614,148</i>	<i>\$149,500</i>	<i>\$3,443,125</i>
<i>Feb.</i>	<i>\$191,497</i>	<i>\$204,716</i>	<i>\$0</i>	<i>\$396,213</i>
<i>Mar.</i>	<i>\$108,525</i>	<i>\$204,716</i>	<i>\$0</i>	<i>\$313,241</i>
<i>Apr.</i>	<i>\$113,903</i>	<i>\$204,716</i>	<i>\$0</i>	<i>\$318,619</i>
<i>Qtr. Subtotal</i>	<i>\$413,925</i>	<i>\$614,148</i>	<i>\$0</i>	<i>\$1,028,073</i>

	<u>PBR-GAIF</u>	<u>PBR-TIF</u>	<u>PBR-OSSIF</u>	<u>Total</u>
<i>May</i>	\$66,887	\$204,716	\$0	\$271,603
<i>Jun.</i>	\$257,385	\$204,716	\$0	\$462,101
<i>Jul.</i>	\$210,434	\$204,716	\$0	\$415,150
<i>Qtr. Subtotal</i>	\$534,706	\$614,148	\$0	\$1,148,854
<i>Aug.</i>	\$189,632	\$204,716	\$0	\$394,348
<i>Sep.</i>	\$431,676	\$204,716	\$0	\$636,392
<i>Oct.</i>	\$289,809	\$204,716	\$0	\$494,525
<i>Qtr. Subtotal</i>	\$911,117	\$614,148	\$0	\$1,525,265
<i>Total</i>	\$4,539,225	\$2,456,592	\$149,500	\$7,145,317

The supporting calculations are enclosed with this filing.

PBR—Gas Acquisition Index Factor (“GAIF”) is an incentive mechanism for gas commodity costs. Under this component, LG&E benchmarks its gas commodity costs against a calculated benchmark representative of the market price of gas by using various industry-accepted price postings. Factors affecting LG&E’s performance under this portion of the PBR mechanism are discussed below.

Purchasing Practices and Strategy: LG&E has sought to generate savings under the PBR mechanism by (1) aggressively managing gas supplies to ensure that purchases will be made at less than applicable gas supply indices,(2) purchasing gas at capacity-constrained points at which points natural gas is typically priced at less than the referenced indices, and (3) maximizing the use of LG&E’s on-system storage and off-system contract storage by accelerating or deferring injections (or withdrawals) in order to maximize savings under the PBR mechanism. LG&E has not used any financial instruments to date in pursuing its objectives under the PBR mechanism.

Composition of Savings: Total savings under the PBR-GAIF component of the mechanism is \$4,539,225.

PBR – Transportation Index Factor (“TIF”) is an incentive mechanism for pipeline transportation costs. With this component, LG&E benchmarks its pipeline transportation costs against the transportation rates filed with the Federal Energy Regulatory Commission (“FERC”) by either Texas Gas Transmission, LLC (“Texas Gas”) or Tennessee Gas Pipeline Company, LLC (“Tennessee”), as applicable.

Purchasing Practices and Strategy: LG&E has sought to ensure that savings result under the PBR mechanism by (1) aggressively negotiating pipeline discounts, and (2) releasing pipeline capacity when not required by LG&E to serve its customers. Factors affecting LG&E's performance under this portion of the PBR mechanism are discussed below.

Texas Gas Transmission LLC Rate Case: The rates charged by Texas Gas are final rates and are not being billed subject to refund.

Tennessee Gas Pipeline Company: The rates charged by Tennessee Gas are final rates and are not being billed subject to refund.

Composition of Savings by Pipeline: Total savings under the PBR-TIF component of the PBR is \$2,456,592. The portion of savings attributable to Texas Gas under PBR-TIF is \$0. The portion of savings attributable to Tennessee under PBR-TIF is \$2,456,592. On a combined pipeline basis, the portion of savings attributable to any commodity discounts is \$0, and the portion of savings attributable to any demand discounts is \$2,456,592.

PBR – Off-System Sales Index Factor (“OSSIF”) is an incentive mechanism for off-system sales. LG&E may be in a position to sell natural gas or transportation services or both above cost.

Off-System Sales Activity: LG&E made off-system sales during the PBR period when the opportunity arose to generate savings, and LG&E had natural gas under contract and available for sale. These off-system sales were made to entities which are not affiliated with LG&E. During the period covered by this report, LG&E made off-system sales during the month of November 2018.

PBR Amounts and Demand/Commodity Allocation: Following is a summary of the various PBR components in total for the 12 months ended October 31, 2019. Under the revised sharing mechanism approved by the Commission in its Order dated June 30, 2015, in Case No. 2014-00476, LG&E's share in any savings or expenses is 25% for all savings or expenses up to 3.0% of Total Actual Gas Supply Costs (“TAGSC”), which is the sum of Actual Gas Costs (“AGC”) and Total Actual Annual Gas Transportation Costs (“TAAGTC”). For savings (or expenses) in excess of 3.0% of TAGSC, LG&E's share is 50%.

Total savings for PBR Year 22 were \$7,145,317, and TAGSC was \$114,689,853, which is the sum of \$90,607,727 in AGC and \$24,082,126 in TAAGTC. Therefore, savings as a percentage of TAGSC were 6.23% ($\$7,145,317 / \$114,689,853$). Hence, all of the savings up to \$3,440,696 ($3.0\% \times \$114,689,853$) are shared with 25% allocated to LG&E and the remaining 75% being retained by customers as having already been reflected in LG&E's GSCC. The portion of the savings in excess of that amount, or \$3,704,621 ($\$7,145,317 - \$3,440,696$), is the subject of the 50% sharing tier.

Therefore, the initial tier of the sliding scale is allocated on a 25/75 basis with \$860,174 (25% x \$3,440,696) being allocated to the Company and \$2,580,522 (75% x \$3,440,696) being allocated to customers. The second tier is subject to sharing on a 50/50 basis with \$1,852,311 (50% x \$3,704,621) being allocated to the Company and \$1,852,310 (50% x \$3,704,621) being allocated to customers. Therefore, the total portion of the savings being retained by customers is \$4,432,832 (\$2,580,522 + \$1,852,310); and the total portion of the savings being allocated to the Company and collected from customers is \$2,712,485 (\$860,174 + \$1,852,311). Therefore, the CSPBR to be collected for the Company from customers by means of the PBRRC (as a part of the GSCC) is \$2,712,485.

The total to be collected for the Company from customers through the GSCC is \$2,712,485. This amount must be segregated into its respective commodity (or volumetric) and demand (or fixed) components in order to properly recover the amounts from sales and standby transportation customers. Of this total amount, \$932,552 is to be recovered for the Company from sales and standby transportation customers through the Pipeline Supplier's Demand Component as a demand component. The remaining \$1,779,933 is to be recovered for the Company from sales customers through the GSCC. The calculation of the split as between demand and commodity is set forth as a part of the attached PBR calculations.

Labor and Operating and Maintenance ("O&M") Costs: The PBR mechanism requires that LG&E exclude labor-related or other expenses typically classified as O&M expenses from the determination of any savings or expenses under the PBR mechanism. LG&E is required to report any costs required to implement the PBR mechanism. Inasmuch as such costs cannot be shared between Company and Customer, LG&E has sought to minimize incremental costs. LG&E has not incurred any significant quantifiable costs during the period covered by this report for activity under the PBR mechanism.

**PBR CALCULATIONS FOR THE 12 MONTHS ENDED
OCTOBER 31, 2019**

**PBR-GAIF
SUPPORTING CALCULATIONS**

**PBR-GAIF
CALCULATION OF BENCHMARK GAS COSTS
("BGC")**

LOUISVILLE GAS & ELECTRIC COMPANY
GAIF - CALCULATION OF BGC

Column	1	2	3	4	5	6	7	8	9	10	11	12	13
ALLOCATION OF APV ACCORDING TO SZFQE%													
	APV TRANSPORTED UNDER TGT RATE NNS	APV TRANSPORTED UNDER TGT RATE FT	APV TRANSPORTED UNDER TGT RATE STF	APV TRANSPORTED UNDER TGPL FT-A	APV TRANSPORTED UNDER OTHER CAPACITY	TOTAL APV FOR SYSTEM SUPPLY (1+2+3+4+5)	TGT OR TGPL PEFDCQ	APV - PEFDCQ= TOTAL APV FOR SYSTEM SUPPLY (6-7)	TGT ZONE SL 48.07% 22.81%	TGT ZONE 1 20.39% 9.82%	TGT ZONE 4 23.06% 50.53%	TGPL ZONE 0 7.88% 16.84%	TGPL ZONE 1 0.00% 0.00%
									(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)
Nov 18	2,089,944	1,140,000	0	800,800	400,000	4,230,544	0	4,230,544	2,033,622	882,608	1,000,947	333,367	0
Dec 18	1,093,576	945,000	0	620,620	290,000	2,949,196	0	2,949,196	1,417,678	601,341	697,780	232,397	0
Jan 19	1,430,044	1,255,000	0	620,620	505,000	3,810,664	8,826	3,801,838	1,827,543	775,195	899,515	299,585	0
Feb 19	905,964	290,000	0	560,560	0	1,756,524	0	1,756,524	844,361	358,155	415,594	138,414	0
Mar 19	1,355,006	715,000	0	400,400	0	2,470,406	0	2,470,406	1,187,524	503,716	584,488	194,068	0
Apr 19	762,948	750,000	0	0	0	1,512,948	0	1,512,948	345,103	148,572	784,493	254,780	0
May 19	788,409	775,000	0	0	0	1,563,409	0	1,563,409	356,614	153,527	789,990	283,278	0
Jun 19	762,960	1,776,638	0	0	0	2,539,598	0	2,539,598	579,282	249,388	1,283,258	427,688	0
Jul 19	1,408,392	1,859,297	0	0	620,000	3,887,689	0	3,887,689	886,782	381,771	1,984,449	654,687	0
Aug 19	1,408,388	1,858,585	0	0	620,000	3,886,933	0	3,886,933	886,609	381,697	1,984,067	654,560	0
Sep 19	1,362,990	1,784,823	0	0	600,000	3,727,813	0	3,727,813	850,314	368,071	1,883,864	627,784	0
Oct 19	1,155,423	1,857,771	0	0	619,999	3,633,193	0	3,633,193	828,731	356,780	1,835,852	611,830	0
Total	14,524,024	14,987,092	0	2,802,800	3,654,999	35,968,915	8,826	35,960,089	12,044,163	5,138,821	14,084,107	4,692,998	0
Column	14	15	16	17	18	19	20	21	22	23	24	25	
	SAI TGT-SL	APV x SAI TGT-SL (9X14)	SAI TGT-Z1	APV x SAI TGT-Z1 (10X18)	SAI TGT-Z4	APV x SAI TGT-Z4 (11X18)	SAI TGPL-Z0	APV x SAI TGPL-Z0 (12X20)	SAI TGPL-Z1	APV x SAI TGPL-Z1 (13X22)	DAI	TOTAL BMGCC (15+17+19+21+23+24)	
Nov 18	\$3,6384	\$7,399,130	\$3,8219	\$3,124,280	\$3,6122	\$3,615,621	\$3,6261	\$1,208,822	\$3,6618	\$0	\$0	\$15,347,853	
Dec 18	\$4,0914	\$5,800,288	\$4,0692	\$2,446,977	\$4,0854	\$2,850,710	\$4,0737	\$946,716	\$4,1604	\$0	\$0	\$12,044,691	
Jan 19	\$3,1899	\$5,829,679	\$3,1311	\$2,427,213	\$3,1816	\$2,861,897	\$3,1440	\$941,895	\$3,2006	\$0	\$36,530	\$12,097,214	
Feb 19	\$2,6811	\$2,263,816	\$2,6580	\$961,260	\$2,7161	\$1,128,795	\$2,6711	\$369,718	\$2,7097	\$0	\$0	\$4,713,589	
Mar 19	\$2,8337	\$3,365,087	\$2,7992	\$1,410,002	\$2,8502	\$1,665,936	\$2,8031	\$545,674	\$2,8481	\$0	\$0	\$6,986,699	
Apr 19	\$2,5164	\$868,417	\$2,4813	\$368,652	\$2,4571	\$1,878,436	\$2,5254	\$643,421	\$2,5683	\$0	\$0	\$3,756,626	
May 19	\$2,4457	\$872,171	\$2,3721	\$364,181	\$2,3044	\$1,820,453	\$2,4302	\$639,818	\$2,4998	\$0	\$0	\$3,696,623	
Jun 19	\$2,3080	\$1,335,824	\$2,2440	\$559,627	\$2,1539	\$2,784,009	\$2,3144	\$989,795	\$2,3685	\$0	\$0	\$5,649,255	
Jul 19	\$2,1529	\$1,906,153	\$2,0993	\$801,452	\$2,0651	\$4,056,784	\$2,1556	\$1,411,243	\$2,2214	\$0	\$0	\$8,178,632	
Aug 19	\$2,0301	\$1,799,905	\$1,9644	\$749,806	\$1,9217	\$3,774,348	\$1,9933	\$1,304,734	\$2,0985	\$0	\$0	\$7,628,763	
Sep 19	\$2,2487	\$1,912,101	\$2,1358	\$781,854	\$2,0449	\$3,851,905	\$2,1944	\$1,377,565	\$2,3484	\$0	\$0	\$7,823,425	
Oct 19	\$2,1477	\$1,779,866	\$1,9431	\$693,259	\$1,8415	\$3,380,721	\$2,0715	\$1,267,406	\$2,2174	\$0	\$0	\$7,121,252	
Total		\$35,135,437		\$14,678,563		\$33,649,615		\$11,648,807		\$0	\$36,530	\$95,146,952	

**PBR-GAIF
CALCULATION OF ACTUAL GAS COSTS
("AGC")**

LOUISVILLE GAS AND ELECTRIC COMPANY
GAS ACQUISITION INDEX FACTOR - CALCULATION OF AGC

Column	1	2	3	4	5	6	7	8	9	10
	APV TRANSPORTED UNDER LG&E'S TGT RATE NNS	COST OF GAS TRANSPORTED UNDER LG&E'S RATE NNS	APV TRANSPORTED UNDER LG&E'S TGT RATE FT	COST OF GAS TRANSPORTED UNDER LG&E'S TGT RATE FT	APV TRANSPORTED UNDER LG&E'S TGT RATE STF	COST OF GAS TRANSPORTED UNDER LG&E'S TGT RATE STF	APV TRANSPORTED UNDER LG&E'S TGPL RATE FT-A	COST OF GAS TRANSPORTED UNDER LG&E'S TGPL RATE FT-A	APV TRANSPORTED UNDER OTHER CAPACITY	COST OF GAS TRANSPORTED UNDER OTHER CAPACITY
Nov 18	2,089,944	\$6,543,736	1,140,000	\$3,794,125	0	\$0	600,600	\$1,861,860	400,000	\$1,616,750
Dec 18	1,093,576	\$4,372,270	945,000	\$3,612,450	0	\$0	620,620	\$2,336,734	290,000	\$1,230,000
Jan 19	1,430,044	\$4,306,335	1,255,000	\$3,794,675	0	\$0	620,620	\$1,822,721	505,000	\$1,518,625
Feb 19	905,964	\$2,334,276	290,000	\$745,475	0	\$0	560,560	\$1,442,341	0	\$0
Mar 19	1,355,006	\$3,768,426	715,000	\$2,010,250	0	\$0	400,400	\$1,099,498	0	\$0
Apr 19	762,948	\$1,850,023	750,000	\$1,795,000	0	\$0	0	\$0	0	\$0
May 19	788,409	\$1,858,611	775,000	\$1,771,125	0	\$0	0	\$0	0	\$0
Jun 19	762,960	\$1,630,446	1,776,636	\$3,761,424	0	\$0	0	\$0	0	\$0
Jul 19	1,408,392	\$2,900,948	1,859,297	\$3,788,150	0	\$0	0	\$0	620,000	\$1,279,100
Aug 19	1,408,368	\$2,724,912	1,858,565	\$3,530,049	0	\$0	0	\$0	620,000	\$1,184,200
Sep 19	1,362,990	\$2,808,899	1,764,823	\$3,473,850	0	\$0	0	\$0	600,000	\$1,209,000
Oct 19	1,155,423	\$2,254,962	1,857,771	\$3,349,283	0	\$0	0	\$0	619,999	\$1,227,198
	14,524,024	\$37,353,844	14,987,092	\$35,425,856	0	\$0	2,802,800	\$8,563,154	3,654,999	\$9,264,873

Column	11	12
	TOTAL TRANSPORT GAS (1+3+5+7+9)	TOTAL GAS COMMODITY COSTS (2+4+6+8+10)
Nov 18	4,230,544	\$13,816,471
Dec 18	2,949,196	\$11,551,454
Jan 19	3,810,664	\$11,442,356
Feb 19	1,756,524	\$4,522,092
Mar 19	2,470,406	\$6,878,174
Apr 19	1,512,948	\$3,645,023
May 19	1,563,409	\$3,629,736
Jun 19	2,539,596	\$5,391,870
Jul 19	3,887,689	\$7,968,198
Aug 19	3,886,933	\$7,439,161
Sep 19	3,727,813	\$7,491,749
Oct 19	3,633,193	\$6,831,443
Total	35,968,915	\$90,607,727

**PBR-GAIF
CALCULATION OF SAVINGS AND/OR EXPENSES**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF SAVINGS AND EXPENSES
 UNDER PBR GAS ACQUISITION FACTOR ("GAIF")

Column	1	2	3
	BGC FROM COL. 25	AGC FROM COL. 11	SAVINGS/ (EXPENSES) (1 - 2)
Nov 18	\$15,347,853	\$13,816,471	\$1,531,382
Dec 18	\$12,044,691	\$11,551,454	\$493,237
Jan 19	\$12,097,214	\$11,442,356	\$654,858
Feb 19	\$4,713,589	\$4,522,092	\$191,497
Mar 19	\$6,986,699	\$6,878,174	\$108,525
Apr 19	\$3,758,926	\$3,645,023	\$113,903
May 19	\$3,696,623	\$3,629,736	\$66,887
Jun 19	\$5,649,255	\$5,391,870	\$257,385
Jul 19	\$8,178,632	\$7,968,198	\$210,434
Aug 19	\$7,628,793	\$7,439,161	\$189,632
Sep 19	\$7,923,425	\$7,491,749	\$431,676
Oct 19	\$7,121,252	\$6,831,443	\$289,809
Total	\$95,146,952	\$90,607,727	\$4,539,225

**PBR-GAIF
INDICES**

**PBR-GAIF
INDICES
TEXAS GAS – ZONE SL**

LOUISVILLE GAS AND ELECTRIC
 CALCULATION OF SUPPLY AREA INDICES
 SAI (TGT-SL)

	NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE	PLATTS GAS DAILY AVERAGE LOUISIANA/ SOUTHEAST, TX. GAS, ZONE SL	PLATTS INSIDE FERC's GAS MARKET REPORT LOUISIANA/SOUTHEAST TEXAS GAS, ZONE SL	AVERAGE
Nov. 18	\$3.8925	\$3.9127	\$3.1100	\$3.6384
Dec. 18	\$3.9100	\$3.6941	\$4.6700	\$4.0914
Jan. 19	\$3.0150	\$3.0146	\$3.5400	\$3.1899
Feb. 19	\$2.6300	\$2.5634	\$2.8500	\$2.6811
Mar. 19	\$2.9150	\$2.8062	\$2.7800	\$2.8337
Apr. 19	\$2.5320	\$2.4273	\$2.5900	\$2.5164
May 19	\$2.4825	\$2.4146	\$2.4400	\$2.4457
Jun. 19	\$2.2925	\$2.1655	\$2.4600	\$2.3060
Jul. 19	\$2.2280	\$2.1307	\$2.1000	\$2.1529
Aug. 19	\$2.1000	\$2.0303	\$1.9600	\$2.0301
Sep. 19	\$2.3500	\$2.3260	\$2.0700	\$2.2487
Oct. 19	\$2.0850	\$2.0982	\$2.2600	\$2.1477

**CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR TEXAS GAS ZONE SL**

NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE	NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE
11/05/2018	\$3.1500			05/06/2019	\$2.4800		
11/12/2018	\$3.6000			05/13/2019	\$2.4600		
11/19/2018	\$4.2500			05/20/2019	\$2.5100		
11/26/2018	\$4.5700	\$3.8925		05/27/2019	\$2.4800	\$2.4825	
12/03/2018	\$4.3800			06/03/2019	\$2.4400		
12/10/2018	\$4.4400			06/10/2019	\$2.2900		
12/17/2018	\$4.1500			06/17/2019	\$2.2300		
12/24/2018	\$3.4800			06/24/2019	\$2.2100	\$2.2925	
12/31/2018	\$3.1000	\$3.9100		07/01/2019	\$2.2200		
01/07/2019	\$2.7900			07/08/2019	\$2.1500		
01/14/2019	\$2.8200			07/15/2019	\$2.3800		
01/21/2019	\$3.3600			07/22/2019	\$2.2600		
01/28/2019	\$3.0900	\$3.0150		07/29/2019	\$2.1300	\$2.2280	
02/04/2019	\$2.8100			08/05/2019	\$2.1000		
02/11/2019	\$2.5200			08/12/2019	\$2.0700		
02/18/2019	\$2.5600			08/19/2019	\$2.1100		
02/25/2019	\$2.6300	\$2.6300		08/26/2019	\$2.1200	\$2.1000	
03/04/2019	\$3.0800			09/02/2019	\$2.1900		
03/11/2019	\$3.1100			09/09/2019	\$2.3300		
03/18/2019	\$2.7400			09/16/2019	\$2.5600		
03/25/2019	\$2.7300	\$2.9150		09/23/2019	\$2.5200		
04/01/2019	\$2.6100			09/30/2019	\$2.1500	\$2.3500	
04/08/2019	\$2.5800			10/07/2019	\$2.1500		
04/15/2019	\$2.6000			10/14/2019	\$2.0200		
04/22/2019	\$2.4500			10/21/2019	\$2.0600		
04/29/2019	\$2.4200	\$2.5320		10/28/2019	\$2.1100	\$2.0850	

PBR YEAR TWENTY-TWO PLATTS GAS DAILY MIDPOINT PRICE
 LOUISIANA/SOUTHEAST, TX. GAS, ZONE SL

Holiday

Saturday/Sunday

NOVEMBER 2018			DECEMBER 2018			JANUARY 2019			FEBRUARY 2019			MARCH 2019			APRIL 2019			
DAY	MIDPOINT		MIDPOINT			MIDPOINT			DAY	MIDPOINT		MIDPOINT			MIDPOINT			
1	\$ 3.0850		\$ 4.3950		\$ -		\$ 2.7100		1	\$ 2.7100		\$ 2.8450		\$ 2.5350				
2	\$ 3.0900		\$ 4.3950		\$ -		2	\$ 2.4500		2	\$ 2.4500		\$ 3.2200		\$ 2.5850			
3	\$ 3.0200		\$ 4.3950		\$ -		3	\$ 2.4500		3	\$ 2.4500		\$ 3.2200		\$ 2.5200			
4	\$ 3.0200		\$ 4.3550		\$ -		4	\$ 2.4500		4	\$ 2.4500		\$ 3.2200		\$ 2.5050			
5	\$ 3.0200		\$ -		\$ 2.5700		5	\$ 2.4500		5	\$ 2.4500		\$ 4.1700		\$ 2.5300			
6	\$ 3.3600		\$ -		\$ 2.5700		6	\$ 2.4500		6	\$ 2.4500		\$ 2.9850		\$ 2.4600			
7	\$ 3.4150		\$ 4.2550		\$ 2.5700		7	\$ 2.4600		7	\$ 2.4600		\$ 2.8850		\$ 2.4600			
8	\$ 3.4350		\$ 4.3750		\$ -		8	\$ 2.5200		8	\$ 2.5200		\$ 2.8250		\$ 2.4600			
9	\$ 3.5100		\$ 4.3750		\$ 2.8000		9	\$ 2.4750		9	\$ 2.4750		\$ 2.7900		\$ 2.5300			
10	\$ 3.6200		\$ 4.3750		\$ 2.8050		10	\$ 2.4750		10	\$ 2.4750		\$ 2.7900		\$ 2.5200			
11	\$ 3.6200		\$ -		\$ 2.8050		11	\$ 2.4750		11	\$ 2.4750		\$ 2.7900		\$ 2.5550			
12	\$ 3.6200		\$ 4.3250		\$ 2.7800		12	\$ -		12	\$ -		\$ 2.6700		\$ 2.5450			
13	\$ -		\$ -		\$ 2.7800		13	\$ 2.5600		13	\$ 2.5600		\$ 2.6500		\$ 2.5100			
14	\$ 3.9900		\$ 4.0600		\$ 2.7800		14	\$ -		14	\$ -		\$ 2.6850		\$ 2.5100			
15	\$ 4.5300		\$ 3.7500		\$ 3.3400		15	\$ -		15	\$ -		\$ 2.7450		\$ 2.5100			
16	\$ 4.5200		\$ 3.7500		\$ 3.4850		16	\$ 2.5150		16	\$ 2.5150		\$ 2.7250		\$ 2.4200			
17	\$ 4.2000		\$ 3.7500		\$ 3.6500		17	\$ 2.5150		17	\$ 2.5150		\$ 2.7250		\$ 2.4250			
18	\$ 4.2000		\$ 3.4500		\$ 3.4400		18	\$ 2.5150		18	\$ 2.5150		\$ 2.7250		\$ 2.3700			
19	\$ 4.2000		\$ 3.5000		\$ 3.2300		19	\$ 2.5150		19	\$ 2.5150		\$ 2.7250		\$ 2.3100			
20	\$ -		\$ 3.3400		\$ 3.2300		20	\$ 2.5900		20	\$ 2.5900		\$ 2.7600		\$ 2.3100			
21	\$ 4.5300		\$ 3.5500		\$ 3.2300		21	\$ 2.6150		21	\$ 2.6150		\$ 2.7250		\$ 2.3100			
22	\$ 4.5850		\$ 3.3400		\$ 3.2300		22	\$ 2.5900		22	\$ 2.5900		\$ 2.7050		\$ 2.3100			
23	\$ 4.5850		\$ 3.3400		\$ -		23	\$ 2.6250		23	\$ 2.6250		\$ 2.6300		\$ 2.3500			
24	\$ 4.5850		\$ 3.3400		\$ 3.0500		24	\$ 2.6250		24	\$ 2.6250		\$ 2.6300		\$ 2.2800			
25	\$ 4.5850		\$ 3.3400		\$ 3.0650		25	\$ 2.6250		25	\$ 2.6250		\$ 2.6300		\$ 2.3100			
26	\$ 4.5850		\$ 3.3400		\$ 3.0500		26	\$ 2.7600		26	\$ 2.7600		\$ -		\$ 2.2700			
27	\$ -		\$ 3.0450		\$ 3.0500		27	\$ 2.8600		27	\$ 2.8600		\$ 2.6350		\$ 2.3400			
28	\$ -		\$ 2.9000		\$ 3.0500		28	\$ 2.8100		28	\$ 2.8100		\$ 2.5200		\$ 2.3400			
29	\$ 4.3600		\$ 2.9000		\$ 3.0100		29			29			\$ 2.5200		\$ 2.3400			
30	\$ 4.4600		\$ 2.9000		\$ 2.9200		30			30			\$ 2.5200		\$ 2.4000			
31			\$ 2.9000		\$ 2.8750		31			31			\$ 2.5200					
TOTAL	\$ 101.7300		\$ 99.7400		\$ 75.3650		TOTAL	\$ 64.0850		TOTAL	\$ 64.0850		\$ 84.1850		\$ 72.8200			
POSTINGS	26		27		25		POSTINGS	25		POSTINGS	25		30		30			
AVERAGE	\$ 3.9127		\$ 3.6941		\$ 3.0146		AVERAGE	\$ 2.5634		AVERAGE	\$ 2.5634		\$ 2.8062		\$ 2.4273			

MAY 2019		JUNE 2019		JULY 2019		AUGUST 2019		SEPTEMBER 2019		OCTOBER 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT
1	\$ 2.4050	\$ 2.3000	\$ 2.1250	\$ 2.0600	1	\$ 2.1000	\$ 2.1550				
2	\$ 2.4550	\$ 2.3000	\$ 2.0750	\$ 2.1350	2	\$ 2.1000	\$ 2.1200				
3	\$ 2.4400	\$ 2.3000	\$ 2.0700	\$ 1.9400	3	\$ 2.1000	\$ 2.1100				
4	\$ 2.3900	\$ 2.2400	\$ 2.0550	\$ 1.9400	4	\$ 2.2200	\$ 2.1050				
5	\$ 2.3900	\$ 2.2200	\$ 2.0550	\$ 1.9400	5	\$ 2.2300	\$ 2.1000				
6	\$ 2.3900	\$ 2.2100	\$ 2.0550	\$ 1.9300	6	\$ 2.2450	\$ 2.1000				
7	\$ 2.3800	\$ 2.2000	\$ 2.0550	\$ 2.0400	7	\$ 2.2950	\$ 2.1000				
8	\$ 2.3600	\$ 2.1450	\$ 2.0550	\$ 2.0250	8	\$ 2.2950	\$ 2.1200				
9	\$ 2.3900	\$ 2.1450	\$ -	\$ 1.9950	9	\$ 2.2950	\$ 2.0900				
10	\$ 2.3900	\$ 2.1450	\$ 2.2000	\$ 1.9800	10	\$ 2.4350	\$ 2.1450				
11	\$ 2.3800	\$ 2.1750	\$ 2.3550	\$ 1.9800	11	\$ 2.4100	\$ -				
12	\$ 2.3800	\$ 2.1800	\$ -	\$ 1.9800	12	\$ 2.4250	\$ 1.9050				
13	\$ 2.3800	\$ 2.1900	\$ 2.3300	\$ -	13	\$ 2.4300	\$ 1.9050				
14	\$ 2.4600	\$ 2.1600	\$ 2.3300	\$ -	14	\$ 2.4400	\$ 1.9050				
15	\$ 2.4400	\$ 2.1600	\$ 2.3300	\$ -	15	\$ 2.4400	\$ 2.0100				
16	\$ 2.4050	\$ 2.1600	\$ 2.2850	\$ 2.0450	16	\$ 2.4400	\$ 1.9700				
17	\$ 2.4100	\$ 2.1600	\$ 2.2500	\$ -	17	\$ 2.6350	\$ 2.2500				
18	\$ 2.4300	\$ 2.2150	\$ 2.2000	\$ -	18	\$ 2.5900	\$ 2.1450				
19	\$ 2.4300	\$ 2.2100	\$ 2.1800	\$ -	19	\$ 2.5150	\$ 1.9850				
20	\$ 2.4300	\$ 2.1950	\$ 2.0950	\$ 2.0750	20	\$ -	\$ 1.9850				
21	\$ 2.5300	\$ 2.1350	\$ 2.0950	\$ 2.1000	21	\$ -	\$ 1.9850				
22	\$ 2.4700	\$ 2.0250	\$ 2.0950	\$ 2.0600	22	\$ -	\$ 1.9400				
23	\$ 2.4150	\$ 2.0250	\$ 2.0600	\$ 2.0400	23	\$ -	\$ 2.1050				
24	\$ -	\$ 2.0250	\$ 2.0850	\$ -	24	\$ 2.3050	\$ 2.1950				
25	\$ -	\$ 2.0700	\$ 2.0400	\$ -	25	\$ -	\$ 2.1150				
26	\$ -	\$ 2.1050	\$ 2.0600	\$ -	26	\$ 2.3000	\$ 2.0500				
27	\$ -	\$ 2.1500	\$ 2.0250	\$ -	27	\$ 2.3050	\$ 2.0500				
28	\$ -	\$ 2.1400	\$ 2.0250	\$ -	28	\$ 2.2000	\$ 2.0500				
29	\$ 2.3800	\$ 2.1400	\$ 2.0250	\$ 2.1000	29	\$ 2.2000	\$ 2.2750				
30	\$ 2.4500	\$ 2.1400	\$ 2.0500	\$ 2.1200	30	\$ 2.2000	\$ 2.4250				
31	\$ 2.4000	\$ -	\$ -	\$ 2.1200	31	\$ -	\$ 2.5500				
TOTAL	\$ 62.7800	\$ 64.9650	\$ 59.6600	TOTAL	\$ 40.6050	\$ 58.1500	\$ 62.9450				
POSTINGS	26	30	28	POSTINGS	20	25	30				
AVERAGE	\$ 2.4146	\$ 2.1655	\$ 2.1307	AVERAGE	\$ 2.0303	\$ 2.3260	\$ 2.0982				

**PBR-GAIF
INDICES
TEXAS GAS – ZONE 1**

LOUISVILLE GAS AND ELECTRIC
 CALCULATION OF SUPPLY AREA INDICES
 SAI (TGT-Z1)

	NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA NORTH	PLATTS GAS DAILY AVERAGE LOUISIANA/ SOUTHEAST, TX. GAS, ZONE 1	PLATTS INSIDE FERC's GAS MARKET REPORT LOUISIANA/SOUTHEAST TEXAS GAS, ZONE 1	AVERAGE
Nov. 18	\$3.8550	\$3.9507	\$3.0600	\$3.6219
Dec. 18	\$3.8240	\$3.7535	\$4.6300	\$4.0692
Jan. 19	\$2.9650	\$2.9484	\$3.4800	\$3.1311
Feb. 19	\$2.5925	\$2.5754	\$2.8000	\$2.6560
Mar. 19	\$2.8725	\$2.7952	\$2.7300	\$2.7992
Apr. 19	\$2.4480	\$2.4258	\$2.5700	\$2.4813
May 19	\$2.3625	\$2.3639	\$2.3900	\$2.3721
Jun. 19	\$2.1750	\$2.1370	\$2.4200	\$2.2440
Jul. 19	\$2.1240	\$2.1139	\$2.0600	\$2.0993
Aug. 19	\$1.9850	\$1.9881	\$1.9200	\$1.9644
Sep. 19	\$2.1640	\$2.2133	\$2.0300	\$2.1358
Oct. 19	\$1.8425	\$1.8969	\$2.0900	\$1.9431

**CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR TEXAS GAS ZONE 1**

NATURAL GAS WEEK GAS PRICE REPORT			NATURAL GAS WEEK GAS PRICE REPORT		
	LOUISIANA NORTH	MONTHLY AVERAGE		LOUISIANA NORTH	MONTHLY AVERAGE
11/05/2018	\$3.0800		05/06/2019	\$2.3600	
11/12/2018	\$3.5900		05/13/2019	\$2.3300	
11/19/2018	\$4.2100		05/20/2019	\$2.4000	
11/26/2018	\$4.5400	\$3.8550	05/27/2019	\$2.3600	\$2.3625
12/03/2018	\$4.3100		06/03/2019	\$2.3100	
12/10/2018	\$4.3400		06/10/2019	\$2.1700	
12/17/2018	\$4.0400		06/17/2019	\$2.1400	
12/24/2018	\$3.3700		06/24/2019	\$2.0800	\$2.1750
12/31/2018	\$3.0600	\$3.8240			
01/07/2019	\$2.7300		07/01/2019	\$2.1000	
01/14/2019	\$2.7400		07/08/2019	\$2.0500	
01/21/2019	\$3.3100		07/15/2019	\$2.2800	
01/28/2019	\$3.0800	\$2.9650	07/22/2019	\$2.1800	
			07/29/2019	\$2.0100	\$2.1240
02/04/2019	\$2.7400		08/05/2019	\$1.9700	
02/11/2019	\$2.4900		08/12/2019	\$1.9600	
02/18/2019	\$2.5400		08/19/2019	\$2.0100	
02/25/2019	\$2.6000	\$2.5925	08/26/2019	\$2.0000	\$1.9850
03/04/2019	\$2.9700		09/02/2019	\$1.9900	
03/11/2019	\$3.1400		09/09/2019	\$2.1500	
03/18/2019	\$2.7000		09/16/2019	\$2.3700	
03/25/2019	\$2.6800	\$2.8725	09/23/2019	\$2.2800	
			09/30/2019	\$2.0300	\$2.1640
04/01/2019	\$2.5600				
04/08/2019	\$2.5100		10/07/2019	\$1.8500	
04/15/2019	\$2.5200		10/14/2019	\$1.6900	
04/22/2019	\$2.3500		10/21/2019	\$1.8200	
04/29/2019	\$2.3000	\$2.4480	10/28/2019	\$2.0100	\$1.8425

PBR YEAR TWENTY-TWO PLATTS GAS DAILY MIDPOINT PRICE
LOUISIANA/SOUTHEAST, TX. GAS, ZONE 1

Holiday

Saturday/Sunday

NOVEMBER 2018			DECEMBER 2018			JANUARY 2019			FEBRUARY 2019			MARCH 2019			APRIL 2019		
DAY	MIDPOINT		MIDPOINT			MIDPOINT			DAY	MIDPOINT		MIDPOINT			MIDPOINT		
1	\$ 3.1150		\$ 4.3700			\$ 3.0700			1	\$ 2.7150		\$ 2.8450			\$ 2.5450		
2	\$ 3.1250		\$ 4.3700			\$ 3.0700			2	\$ 2.5200		\$ 3.1900			\$ 2.6000		
3	\$ 3.0450		\$ 4.3700			\$ 2.6050			3	\$ 2.5200		\$ 3.1900			\$ 2.5550		
4	\$ 3.0450		\$ 4.3300			\$ 2.5250			4	\$ 2.5200		\$ 3.1900			\$ 2.5100		
5	\$ 3.0450		\$ 4.5000			\$ 2.5350			5	\$ 2.4550		\$ 4.1650			\$ 2.5300		
6	\$ 3.3800		\$ 4.4950			\$ 2.5350			6	\$ 2.4700		\$ 2.9850			\$ 2.4700		
7	\$ 3.4250		\$ 4.2300			\$ 2.5350			7	\$ 2.4900		\$ 2.8850			\$ 2.4700		
8	\$ 3.4650		\$ 4.3350			\$ 2.5450			8	\$ 2.5350		\$ 2.8250			\$ 2.4700		
9	\$ 3.5400		\$ 4.3350			\$ 2.7650			9	\$ 2.4900		\$ 2.7900			\$ 2.5300		
10	\$ 3.7150		\$ 4.3350			\$ 2.7600			10	\$ 2.4900		\$ 2.7900			\$ 2.5300		
11	\$ 3.7150		\$ 4.3600			\$ 2.7600			11	\$ 2.4900		\$ 2.7900			\$ 2.5600		
12	\$ 3.7150		\$ 4.2850			\$ 2.7350			12	\$ 2.5950		\$ 2.6700			\$ 2.5400		
13	\$ 3.8250		\$ 4.0050			\$ 2.7350			13	\$ 2.5750		\$ 2.6550			\$ 2.5050		
14	\$ 3.9550		\$ 4.0500			\$ 2.7350			14	\$ 2.5050		\$ 2.6800			\$ 2.5050		
15	\$ 4.4800		\$ 3.7000			\$ 3.2650			15	\$ 2.5150		\$ 2.7400			\$ 2.5050		
16	\$ 4.4700		\$ 3.7000			\$ 3.4200			16	\$ 2.5200		\$ 2.7200			\$ 2.4450		
17	\$ 4.1900		\$ 3.7000			\$ 3.4900			17	\$ 2.5200		\$ 2.7200			\$ 2.4250		
18	\$ 4.1900		\$ 3.4650			\$ 3.3600			18	\$ 2.5200		\$ 2.7200			\$ 2.3800		
19	\$ 4.1900		\$ 3.5050			\$ 3.2350			19	\$ 2.5200		\$ 2.7150			\$ 2.3150		
20	\$ 4.4650		\$ 3.3300			\$ 3.2350			20	\$ 2.6000		\$ 2.7500			\$ 2.3150		
21	\$ 4.5200		\$ 3.4650			\$ 3.2350			21	\$ 2.6200		\$ 2.7150			\$ 2.3150		
22	\$ 4.5550		\$ 3.2750			\$ 3.2350			22	\$ 2.6250		\$ 2.6950			\$ 2.3150		
23	\$ 4.5550		\$ 3.2750			\$ 2.9650			23	\$ 2.6300		\$ 2.6200			\$ 2.3450		
24	\$ 4.5550		\$ 3.2750			\$ 3.0500			24	\$ 2.6300		\$ 2.6200			\$ 2.2550		
25	\$ 4.5550		\$ 3.2750			\$ 3.0600			25	\$ 2.6300		\$ 2.6200			\$ 2.2800		
26	\$ 4.5550		\$ 3.2750			\$ 3.0450			26	\$ 2.7500		\$ 2.6350			\$ 2.2550		
27	\$ 4.1850		\$ 3.0100			\$ 3.0450			27	\$ 2.8500		\$ 2.6200			\$ 2.3150		
28	\$ 4.2100		\$ 2.9350			\$ 3.0450			28	\$ 2.8100		\$ 2.5200			\$ 2.3150		
29	\$ 4.3300		\$ 2.9350			\$ 3.0050			29			\$ 2.5300			\$ 2.3150		
30	\$ 4.4050		\$ 2.9350			\$ 2.9200			30			\$ 2.5300			\$ 2.3600		
31			\$ 2.9350			\$ 2.8800			31			\$ 2.5300					
TOTAL	\$ 118.5200		\$ 116.3600			\$ 91.4000			TOTAL	\$ 72.1100		\$ 86.6500			\$ 72.7750		
POSTINGS	30		31			31			POSTINGS	28		31			30		
AVERAGE	\$ 3.9507		\$ 3.7535			\$ 2.9484			AVERAGE	\$ 2.5754		\$ 2.7952			\$ 2.4258		

MAY 2019		JUNE 2019		JULY 2019		AUGUST 2019		SEPTEMBER 2019		OCTOBER 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT
1	\$ 2.3700	\$ 2.2650	\$ 2.1550	\$ 2.0450	1	\$ 2.0450	\$ 1.9750	\$ 1.9200			
2	\$ 2.4100	\$ 2.2650	\$ 2.0850	\$ 2.0750	2	\$ 2.0750	\$ 1.9750	\$ 1.9100			
3	\$ 2.3850	\$ 2.2650	\$ 2.0600	\$ 1.9200	3	\$ 1.9200	\$ 1.9750	\$ 1.9200			
4	\$ 2.3250	\$ 2.2100	\$ 2.0400	\$ 1.9200	4	\$ 1.9200	\$ 2.1700	\$ 1.8350			
5	\$ 2.3250	\$ 2.2000	\$ 2.0400	\$ 1.9200	5	\$ 1.9200	\$ 2.2150	\$ 1.7700			
6	\$ 2.3250	\$ 2.1800	\$ 2.0400	\$ 1.9100	6	\$ 1.9100	\$ 2.1950	\$ 1.7700			
7	\$ 2.3100	\$ 2.1700	\$ 2.0400	\$ 2.0200	7	\$ 2.0200	\$ 2.2450	\$ 1.7700			
8	\$ 2.3050	\$ 2.1450	\$ 2.0400	\$ 2.0050	8	\$ 2.0050	\$ 2.2450	\$ 1.7550			
9	\$ 2.3450	\$ 2.1450	\$ 2.1950	\$ 1.9750	9	\$ 1.9750	\$ 2.2450	\$ 1.7350			
10	\$ 2.3400	\$ 2.1450	\$ 2.2150	\$ 1.9500	10	\$ 1.9500	\$ 2.3850	\$ 1.7950			
11	\$ 2.3500	\$ 2.1350	\$ 2.3500	\$ 1.9500	11	\$ 1.9500	\$ 2.4400	\$ 1.7650			
12	\$ 2.3500	\$ 2.1500	\$ 2.3150	\$ 1.9500	12	\$ 1.9500	\$ 2.4250	\$ 1.6200			
13	\$ 2.3500	\$ 2.1600	\$ 2.2800	\$ 1.9750	13	\$ 1.9750	\$ 2.3700	\$ 1.6200			
14	\$ 2.4300	\$ 2.1350	\$ 2.2800	\$ 1.9750	14	\$ 1.9750	\$ 2.3450	\$ 1.6200			
15	\$ 2.4100	\$ 2.1350	\$ 2.2800	\$ 1.9600	15	\$ 1.9600	\$ 2.3450	\$ 1.7400			
16	\$ 2.3750	\$ 2.1350	\$ 2.2450	\$ 2.0150	16	\$ 2.0150	\$ 2.3450	\$ 1.8700			
17	\$ 2.3750	\$ 2.1350	\$ 2.2100	\$ 2.0350	17	\$ 2.0350	\$ 2.5400	\$ 2.0450			
18	\$ 2.3950	\$ 2.1900	\$ 2.2200	\$ 2.0350	18	\$ 2.0350	\$ 2.4950	\$ 1.9400			
19	\$ 2.3950	\$ 2.1950	\$ 2.2150	\$ 2.0350	19	\$ 2.0350	\$ 2.4200	\$ 1.7150			
20	\$ 2.3950	\$ 2.1700	\$ 2.0850	\$ 2.0450	20	\$ 2.0450	\$ 2.2400	\$ 1.7150			
21	\$ 2.4600	\$ 2.1100	\$ 2.0850	\$ 2.0700	21	\$ 2.0700	\$ 2.1350	\$ 1.7150			
22	\$ 2.4000	\$ 1.9800	\$ 2.0850	\$ 2.0350	22	\$ 2.0350	\$ 2.1350	\$ 1.8900			
23	\$ 2.3450	\$ 1.9800	\$ 2.0550	\$ 1.9850	23	\$ 1.9850	\$ 2.1350	\$ 2.0550			
24	\$ 2.3350	\$ 1.9800	\$ 2.0350	\$ 1.9400	24	\$ 1.9400	\$ 2.1650	\$ 2.1550			
25	\$ 2.3350	\$ 2.0300	\$ 2.0000	\$ 1.9400	25	\$ 1.9400	\$ 2.2750	\$ 2.0650			
26	\$ 2.3350	\$ 2.0700	\$ 2.0300	\$ 1.9400	26	\$ 1.9400	\$ 2.1600	\$ 1.9800			
27	\$ 2.3350	\$ 2.1150	\$ 1.9650	\$ 1.9850	27	\$ 1.9850	\$ 2.0600	\$ 1.9800			
28	\$ 2.3350	\$ 2.1050	\$ 1.9650	\$ 1.9700	28	\$ 1.9700	\$ 1.9150	\$ 1.9800			
29	\$ 2.3550	\$ 2.1050	\$ 1.9650	\$ 2.0100	29	\$ 2.0100	\$ 1.9150	\$ 2.2250			
30	\$ 2.4150	\$ 2.1050	\$ 1.9750	\$ 2.0200	30	\$ 2.0200	\$ 1.9150	\$ 2.3750			
31	\$ 2.3650		\$ 1.9800	\$ 2.0200	31	\$ 2.0200		\$ 2.5550			
TOTAL	\$ 73.2800	\$ 64.1100	\$ 65.5300	TOTAL	\$ 61.6300	\$ 66.4000	\$ 58.8050				
POSTINGS	31	30	31	POSTINGS	31	30	31				
AVERAGE	\$ 2.3639	\$ 2.1370	\$ 2.1139	AVERAGE	\$ 1.9881	\$ 2.2133	\$ 1.8969				

**PBR-GAIF
INDICES
TEXAS GAS – ZONE 4**

LOUISVILLE GAS AND ELECTRIC
 CALCULATION OF SUPPLY AREA INDICES
 SAI (TGT-Z4)

	NATURAL GAS WEEKLY SPOT PRICES APPALACHIA LEBANON HUB	PLATTS GAS DAILY AVERAGE APPALACHIA LEBANON HUB	PLATTS INSIDE FERC's GAS MARKET REPORT APPALACHIA, LEBANON HUB	AVERAGE
Nov. 18	\$3.7925	\$3.9540	\$3.0900	\$3.6122
Dec. 18	\$3.8280	\$3.7381	\$4.6900	\$4.0854
Jan. 19	\$2.9925	\$3.0123	\$3.5400	\$3.1816
Feb. 19	\$2.6700	\$2.5984	\$2.8800	\$2.7161
Mar. 19	\$2.8975	\$2.8332	\$2.8200	\$2.8502
Apr. 19	\$2.4080	\$2.3933	\$2.5700	\$2.4571
May 19	\$2.3050	\$2.3082	\$2.3000	\$2.3044
Jun. 19	\$2.0775	\$2.0643	\$2.3200	\$2.1539
Jul. 19	\$2.0660	\$2.0894	\$2.0400	\$2.0651
Aug. 19	\$1.9275	\$1.9277	\$1.9100	\$1.9217
Sep. 19	\$2.0840	\$2.0908	\$1.9600	\$2.0449
Oct. 19	\$1.7925	\$1.8521	\$1.8800	\$1.8415

CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR LEBANON HUB

NATURAL GAS WEEKLY SPOT PRICES APPALACHIA LEBANON HUB			NATURAL GAS WEEKLY SPOT PRICES APPALACHIA LEBANON HUB		
		MONTHLY AVERAGE			MONTHLY AVERAGE
11/05/2018	\$3.0400		05/06/2019	\$2.3000	
11/12/2018	\$3.4100		05/13/2019	\$2.3000	
11/19/2018	\$4.1800		05/20/2019	\$2.3400	
11/26/2018	\$4.5400	\$3.7925	05/27/2019	\$2.2800	\$2.3050
12/03/2018	\$4.3600		06/03/2019	\$2.2300	
12/10/2018	\$4.3600		06/10/2019	\$2.0900	
12/17/2018	\$3.9900		06/17/2019	\$2.0100	
12/24/2018	\$3.3800		06/24/2019	\$1.9800	\$2.0775
12/31/2018	\$3.0500	\$3.8280			
			07/01/2019	\$2.0300	
01/07/2019	\$2.7300		07/08/2019	\$1.9900	
01/14/2019	\$2.7200		07/15/2019	\$2.1300	
01/21/2019	\$3.3600		07/22/2019	\$2.1500	
01/28/2019	\$3.1600	\$2.9925	07/29/2019	\$2.0300	\$2.0660
02/04/2019	\$2.9900		08/05/2019	\$1.9500	
02/11/2019	\$2.4900		08/12/2019	\$1.9100	
02/18/2019	\$2.5700		08/19/2019	\$1.9600	
02/25/2019	\$2.6300	\$2.6700	08/26/2019	\$1.8900	\$1.9275
03/04/2019	\$3.2600		09/02/2019	\$1.9500	
03/11/2019	\$3.0400		09/09/2019	\$2.1100	
03/18/2019	\$2.6500		09/16/2019	\$2.2800	
03/25/2019	\$2.6400	\$2.8975	09/23/2019	\$2.1300	
			09/30/2019	\$1.9500	\$2.0840
04/01/2019	\$2.5300				
04/08/2019	\$2.5000		10/07/2019	\$1.6900	
04/15/2019	\$2.4900		10/14/2019	\$1.6500	
04/22/2019	\$2.3100		10/21/2019	\$1.7200	
04/29/2019	\$2.2100	\$2.4080	10/28/2019	\$2.1100	\$1.7925

PBR YEAR TWENTY-TWO PLATTS GAS DAILY MIDPOINT PRICE
 APPALACHIA, LEBANON HUB

NOVEMBER 2018		DECEMBER 2018		JANUARY 2019		FEBRUARY 2019		MARCH 2019		APRIL 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT		
1	\$ 3.0600	\$ 4.3700	\$ 3.0550	1	\$ 2.7050	\$ 2.8550	\$ 2.5400				
2	\$ 3.1100	\$ 4.3700	\$ 3.0550	2	\$ 2.5150	\$ 3.7250	\$ 2.5700				
3	\$ 3.0200	\$ 4.3700	\$ 2.6100	3	\$ 2.5150	\$ 3.7250	\$ 2.5350				
4	\$ 3.0200	\$ 4.3250	\$ 2.5000	4	\$ 2.5150	\$ 3.7250	\$ 2.5500				
5	\$ 3.0200	\$ 4.4750	\$ 2.5350	5	\$ 2.4550	\$ 4.0600	\$ 2.5050				
6	\$ 3.3850	\$ 4.4550	\$ 2.5350	6	\$ 2.4750	\$ 3.0650	\$ 2.4450				
7	\$ 3.4450	\$ 4.2100	\$ 2.5350	7	\$ 2.5000	\$ 2.9450	\$ 2.4450				
8	\$ 3.4900	\$ 4.3200	\$ 2.5450	8	\$ 2.5800	\$ 2.8150	\$ 2.4450				
9	\$ 3.5650	\$ 4.3200	\$ 2.7450	9	\$ 2.5000	\$ 2.7900	\$ 2.5250				
10	\$ 3.7350	\$ 4.3200	\$ 2.7300	10	\$ 2.5000	\$ 2.7900	\$ 2.5300				
11	\$ 3.7350	\$ 4.3850	\$ 2.7300	11	\$ 2.5000	\$ 2.7900	\$ 2.5250				
12	\$ 3.7350	\$ 4.2850	\$ 2.7150	12	\$ 2.6100	\$ 2.6150	\$ 2.5050				
13	\$ 3.8750	\$ 4.0050	\$ 2.7150	13	\$ 2.5900	\$ 2.6350	\$ 2.4650				
14	\$ 4.0050	\$ 4.0550	\$ 2.7150	14	\$ 2.5150	\$ 2.6600	\$ 2.4650				
15	\$ 4.5250	\$ 3.7050	\$ 3.2950	15	\$ 2.5400	\$ 2.7300	\$ 2.4650				
16	\$ 4.3150	\$ 3.7050	\$ 3.4250	16	\$ 2.5650	\$ 2.6950	\$ 2.4500				
17	\$ 4.2000	\$ 3.7050	\$ 3.4750	17	\$ 2.5650	\$ 2.6950	\$ 2.4350				
18	\$ 4.2000	\$ 3.4400	\$ 3.3900	18	\$ 2.5650	\$ 2.6950	\$ 2.3950				
19	\$ 4.2000	\$ 3.4900	\$ 3.3000	19	\$ 2.5650	\$ 2.7050	\$ 2.3100				
20	\$ 4.4900	\$ 3.3100	\$ 3.3000	20	\$ 2.6400	\$ 2.7300	\$ 2.3100				
21	\$ 4.5100	\$ 3.4400	\$ 3.3000	21	\$ 2.6300	\$ 2.6800	\$ 2.3100				
22	\$ 4.5500	\$ 3.2000	\$ 3.3000	22	\$ 2.6450	\$ 2.6500	\$ 2.3100				
23	\$ 4.5500	\$ 3.2000	\$ 2.9400	23	\$ 2.6450	\$ 2.5950	\$ 2.2500				
24	\$ 4.5500	\$ 3.2000	\$ 3.0650	24	\$ 2.6450	\$ 2.5950	\$ 2.1950				
25	\$ 4.5500	\$ 3.2000	\$ 3.1000	25	\$ 2.6450	\$ 2.5950	\$ 2.2050				
26	\$ 4.5500	\$ 3.2000	\$ 3.0700	26	\$ 2.8300	\$ 2.6250	\$ 2.1900				
27	\$ 4.2950	\$ 2.9800	\$ 3.0700	27	\$ 2.9400	\$ 2.5900	\$ 2.2050				
28	\$ 4.2100	\$ 2.9600	\$ 3.0700	28	\$ 2.8600	\$ 2.5100	\$ 2.2050				
29	\$ 4.3300	\$ 2.9600	\$ 3.4450	29		\$ 2.5150	\$ 2.2050				
30	\$ 4.3950	\$ 2.9600	\$ 3.5950	30		\$ 2.5150	\$ 2.3100				
31		\$ 2.9600	\$ 3.5200	31		\$ 2.5150					
TOTAL	\$ 118.6200	\$ 115.8800	\$ 93.3800	TOTAL	\$ 72.7550	\$ 87.8300	\$ 71.8000				
POSTINGS	30	31	31	POSTINGS	28	31	30				
AVERAGE	\$ 3.9540	\$ 3.7381	\$ 3.0123	AVERAGE	\$ 2.5984	\$ 2.8332	\$ 2.3933				

MAY 2019		JUNE 2019		JULY 2019		AUGUST 2019		SEPTEMBER 2019		OCTOBER 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT
1	\$ 2.3400	\$ 2.1950	\$ 2.0750	\$ 2.0250	1	\$ 2.0250	\$ 1.9300	\$ 1.8000			
2	\$ 2.3900	\$ 2.1950	\$ 2.0350	\$ 2.0450	2	\$ 2.0450	\$ 1.9300	\$ 1.7950			
3	\$ 2.3400	\$ 2.1950	\$ 2.0200	\$ 1.8450	3	\$ 1.8450	\$ 1.9300	\$ 1.8650			
4	\$ 2.2850	\$ 2.1450	\$ 1.9800	\$ 1.8450	4	\$ 1.8450	\$ 2.0750	\$ 1.7600			
5	\$ 2.2850	\$ 2.1400	\$ 1.9800	\$ 1.8450	5	\$ 1.8450	\$ 2.1200	\$ 1.5600			
6	\$ 2.2850	\$ 2.1600	\$ 1.9800	\$ 1.8900	6	\$ 1.8900	\$ 2.1100	\$ 1.5600			
7	\$ 2.2900	\$ 2.1350	\$ 1.9800	\$ 1.9950	7	\$ 1.9950	\$ 2.1500	\$ 1.5600			
8	\$ 2.2900	\$ 2.0300	\$ 1.9800	\$ 1.9900	8	\$ 1.9900	\$ 2.1500	\$ 1.6100			
9	\$ 2.3150	\$ 2.0300	\$ 2.1050	\$ 1.9400	9	\$ 1.9400	\$ 2.1500	\$ 1.6750			
10	\$ 2.2950	\$ 2.0300	\$ 2.1300	\$ 1.8450	10	\$ 1.8450	\$ 2.3200	\$ 1.6900			
11	\$ 2.3050	\$ 2.0900	\$ 2.3050	\$ 1.8450	11	\$ 1.8450	\$ 2.4250	\$ 1.7050			
12	\$ 2.3050	\$ 2.1050	\$ 2.3150	\$ 1.8450	12	\$ 1.8450	\$ 2.3300	\$ 1.6050			
13	\$ 2.3050	\$ 2.1050	\$ 2.2700	\$ 1.9450	13	\$ 1.9450	\$ 2.2900	\$ 1.6050			
14	\$ 2.3900	\$ 2.0400	\$ 2.2700	\$ 1.9450	14	\$ 1.9450	\$ 2.2350	\$ 1.6050			
15	\$ 2.3750	\$ 1.9900	\$ 2.2700	\$ 1.9300	15	\$ 1.9300	\$ 2.2350	\$ 1.7650			
16	\$ 2.3200	\$ 1.9900	\$ 2.2700	\$ 1.9500	16	\$ 1.9500	\$ 2.2350	\$ 1.9100			
17	\$ 2.3200	\$ 1.9900	\$ 2.2000	\$ 1.9800	17	\$ 1.9800	\$ 2.3900	\$ 2.0300			
18	\$ 2.3350	\$ 2.1650	\$ 2.2000	\$ 1.9800	18	\$ 1.9800	\$ 2.3500	\$ 1.9100			
19	\$ 2.3350	\$ 2.1400	\$ 2.2000	\$ 1.9800	19	\$ 1.9800	\$ 2.3450	\$ 1.6300			
20	\$ 2.3350	\$ 2.0950	\$ 2.0600	\$ 2.0300	20	\$ 2.0300	\$ 2.2050	\$ 1.6300			
21	\$ 2.4000	\$ 2.0400	\$ 2.0600	\$ 2.0450	21	\$ 2.0450	\$ 1.9500	\$ 1.6300			
22	\$ 2.3400	\$ 1.9000	\$ 2.0600	\$ 1.9750	22	\$ 1.9750	\$ 1.9500	\$ 1.9050			
23	\$ 2.2700	\$ 1.9000	\$ 2.0550	\$ 1.9050	23	\$ 1.9050	\$ 1.9500	\$ 2.0700			
24	\$ 2.2500	\$ 1.9000	\$ 2.0400	\$ 1.7950	24	\$ 1.7950	\$ 1.9950	\$ 2.1700			
25	\$ 2.2300	\$ 1.9900	\$ 2.0000	\$ 1.7950	25	\$ 1.7950	\$ 1.9750	\$ 2.1100			
26	\$ 2.2300	\$ 2.0400	\$ 2.0500	\$ 1.7950	26	\$ 1.7950	\$ 1.9700	\$ 1.9800			
27	\$ 2.2300	\$ 2.0600	\$ 1.9700	\$ 1.9450	27	\$ 1.9450	\$ 1.9300	\$ 1.9800			
28	\$ 2.2300	\$ 2.0450	\$ 1.9700	\$ 1.9050	28	\$ 1.9050	\$ 1.7000	\$ 1.9800			
29	\$ 2.2850	\$ 2.0450	\$ 1.9700	\$ 1.9850	29	\$ 1.9850	\$ 1.7000	\$ 2.2950			
30	\$ 2.3600	\$ 2.0450	\$ 1.9900	\$ 1.9600	30	\$ 1.9600	\$ 1.7000	\$ 2.4350			
31	\$ 2.2900		\$ 1.9800	\$ 1.9600	31	\$ 1.9600		\$ 2.5900			
TOTAL	\$ 71.5550	\$ 61.9300	\$ 64.7700	TOTAL	\$ 59.7600	\$ 62.7250	\$ 57.4150				
POSTINGS	31	30	31	POSTINGS	31	30	31				
AVERAGE	\$ 2.3082	\$ 2.0643	\$ 2.0894	AVERAGE	\$ 1.9277	\$ 2.0908	\$ 1.8521				

**PBR-GAIF
INDICES
TENNESSEE – ZONE 0**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF SUPPLY AREA INDICES
 SAI (TGPL-Z0)

	NATURAL GAS WEEK GAS PRICE REPORT TEXAS, CENTRAL, ONSHORE	PLATTS GAS DAILY AVERAGE EAST TEXAS, TENNESSEE, ZONE 0	PLATTS INSIDE FERC's GAS MARKET REPORT EAST TEXAS, TENNESSEE, ZONE 0	AVERAGE
Nov. 18	\$3.8550	\$3.9233	\$3.1000	\$3.6261
Dec. 18	\$3.8360	\$3.7652	\$4.6200	\$4.0737
Jan. 19	\$2.9650	\$2.9369	\$3.5300	\$3.1440
Feb. 19	\$2.6100	\$2.5732	\$2.8300	\$2.6711
Mar. 19	\$2.8425	\$2.8068	\$2.7600	\$2.8031
Apr. 19	\$2.4880	\$2.4682	\$2.6200	\$2.5254
May 19	\$2.4250	\$2.4255	\$2.4400	\$2.4302
Jun. 19	\$2.2625	\$2.1707	\$2.5100	\$2.3144
Jul. 19	\$2.1740	\$2.1527	\$2.1400	\$2.1556
Aug. 19	\$2.0325	\$2.0073	\$1.9400	\$1.9933
Sep. 19	\$2.2600	\$2.2732	\$2.0500	\$2.1944
Oct. 19	\$1.9850	\$2.0295	\$2.2000	\$2.0715

**CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR TEXAS, CENTRAL, ONSHORE**

NATURAL GAS WEEK GAS PRICE REPORT TEXAS, CENTRAL, ONSHORE			MONTHLY AVERAGE	NATURAL GAS WEEK GAS PRICE REPORT TEXAS, CENTRAL, ONSHORE			MONTHLY AVERAGE
11/05/2018	\$3.1100			05/06/2019	\$2.4000		
11/12/2018	\$3.6200			05/13/2019	\$2.4300		
11/19/2018	\$4.2000			05/20/2019	\$2.4600		
11/26/2018	\$4.4900	\$3.8550		05/27/2019	\$2.4100	\$2.4250	
12/03/2018	\$4.2900			06/03/2019	\$2.3800		
12/10/2018	\$4.3800			06/10/2019	\$2.2700		
12/17/2018	\$3.9900			06/17/2019	\$2.2200		
12/24/2018	\$3.4200			06/24/2019	\$2.1800	\$2.2625	
12/31/2018	\$3.1000	\$3.8360					
01/07/2019	\$2.7800			07/01/2019	\$2.1600		
01/14/2019	\$2.7800			07/08/2019	\$2.1000		
01/21/2019	\$3.2800			07/15/2019	\$2.3100		
01/28/2019	\$3.0200	\$2.9650		07/22/2019	\$2.2000		
				07/29/2019	\$2.1000	\$2.1740	
02/04/2019	\$2.7100			08/05/2019	\$2.0200		
02/11/2019	\$2.5400			08/12/2019	\$2.0100		
02/18/2019	\$2.5600			08/19/2019	\$2.0600		
02/25/2019	\$2.6300	\$2.6100		08/26/2019	\$2.0400	\$2.0325	
03/04/2019	\$2.9500			09/02/2019	\$2.1300		
03/11/2019	\$3.0100			09/09/2019	\$2.2800		
03/18/2019	\$2.7100			09/16/2019	\$2.4400		
03/25/2019	\$2.7000	\$2.8425		09/23/2019	\$2.3800		
				09/30/2019	\$2.0700	\$2.2600	
04/01/2019	\$2.5700						
04/08/2019	\$2.5500			10/07/2019	\$2.0800		
04/15/2019	\$2.5700			10/14/2019	\$1.8700		
04/22/2019	\$2.3900			10/21/2019	\$1.9400		
04/29/2019	\$2.3600	\$2.4880		10/28/2019	\$2.0500	\$1.9850	

PBR YEAR TWENTY-TWO PLATTS GAS DAILY MIDPOINT PRICE
 EAST TEXAS, TENNESSEE, ZONE 0

NOVEMBER 2018		DECEMBER 2018		JANUARY 2019		FEBRUARY 2019		MARCH 2019		APRIL 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 3.1150	\$ 4.3700	\$ 3.0200	1	\$ 2.7100	\$ 2.8500	\$ 2.5700	\$ 2.8500	\$ 2.5700	\$ 2.5700	\$ 2.5700
2	\$ 3.1500	\$ 4.3700	\$ 3.0200	2	\$ 2.5700	\$ 3.1100	\$ 2.5700	\$ 3.1100	\$ 2.6250	\$ 2.6250	\$ 2.6250
3	\$ 3.1250	\$ 4.3700	\$ 2.6450	3	\$ 2.5700	\$ 3.1100	\$ 2.5700	\$ 3.1100	\$ 2.5950	\$ 2.5950	\$ 2.5950
4	\$ 3.1250	\$ 4.2550	\$ 2.5800	4	\$ 2.5700	\$ 3.1100	\$ 2.4700	\$ 4.0500	\$ 2.5450	\$ 2.5450	\$ 2.5450
5	\$ 3.1250	\$ 4.4550	\$ 2.5750	5	\$ 2.4700	\$ 2.9400	\$ 2.4900	\$ 2.9400	\$ 2.5650	\$ 2.5650	\$ 2.5650
6	\$ 3.3550	\$ 4.4050	\$ 2.5750	6	\$ 2.4900	\$ 2.8850	\$ 2.4850	\$ 2.8850	\$ 2.5200	\$ 2.5200	\$ 2.5200
7	\$ 3.4450	\$ 4.2150	\$ 2.5750	7	\$ 2.4850	\$ 2.8200	\$ 2.5200	\$ 2.8200	\$ 2.5200	\$ 2.5200	\$ 2.5200
8	\$ 3.4450	\$ 4.3300	\$ 2.6250	8	\$ 2.5200	\$ 2.8250	\$ 2.4750	\$ 2.8250	\$ 2.6100	\$ 2.6100	\$ 2.6100
9	\$ 3.5300	\$ 4.3300	\$ 2.8450	9	\$ 2.4750	\$ 2.8250	\$ 2.4750	\$ 2.8250	\$ 2.5850	\$ 2.5850	\$ 2.5850
10	\$ 3.6850	\$ 4.3300	\$ 2.7900	10	\$ 2.4750	\$ 2.8250	\$ 2.4750	\$ 2.8250	\$ 2.6050	\$ 2.6050	\$ 2.6050
11	\$ 3.6850	\$ 4.3700	\$ 2.7950	11	\$ 2.4750	\$ 2.6850	\$ 2.5900	\$ 2.6850	\$ 2.5800	\$ 2.5800	\$ 2.5800
12	\$ 3.6850	\$ 4.2900	\$ 2.8000	12	\$ 2.5900	\$ 2.6800	\$ 2.5650	\$ 2.6800	\$ 2.5650	\$ 2.5650	\$ 2.5650
13	\$ 3.7800	\$ 4.0950	\$ 2.8000	13	\$ 2.5650	\$ 2.7050	\$ 2.5050	\$ 2.7050	\$ 2.5650	\$ 2.5650	\$ 2.5650
14	\$ 3.9800	\$ 4.0950	\$ 2.8000	14	\$ 2.5050	\$ 2.7550	\$ 2.4900	\$ 2.7550	\$ 2.5200	\$ 2.5200	\$ 2.5200
15	\$ 4.4700	\$ 3.7450	\$ 3.3050	15	\$ 2.4900	\$ 2.7400	\$ 2.5100	\$ 2.7400	\$ 2.4500	\$ 2.4500	\$ 2.4500
16	\$ 4.3500	\$ 3.7450	\$ 3.4100	16	\$ 2.5100	\$ 2.7400	\$ 2.5100	\$ 2.7400	\$ 2.4200	\$ 2.4200	\$ 2.4200
17	\$ 4.1700	\$ 3.7450	\$ 3.4750	17	\$ 2.5100	\$ 2.7550	\$ 2.5100	\$ 2.7550	\$ 2.3550	\$ 2.3550	\$ 2.3550
18	\$ 4.1700	\$ 3.4650	\$ 3.3350	18	\$ 2.5100	\$ 2.8350	\$ 2.6200	\$ 2.8350	\$ 2.3550	\$ 2.3550	\$ 2.3550
19	\$ 4.1700	\$ 3.5250	\$ 3.1650	19	\$ 2.5100	\$ 2.7550	\$ 2.6150	\$ 2.7550	\$ 2.3550	\$ 2.3550	\$ 2.3550
20	\$ 4.4350	\$ 3.3400	\$ 3.1650	20	\$ 2.6200	\$ 2.7200	\$ 2.6150	\$ 2.7200	\$ 2.3800	\$ 2.3800	\$ 2.3800
21	\$ 4.4750	\$ 3.5250	\$ 3.1650	21	\$ 2.6150	\$ 2.6650	\$ 2.6150	\$ 2.6650	\$ 2.2950	\$ 2.2950	\$ 2.2950
22	\$ 4.4750	\$ 3.3100	\$ 3.1650	22	\$ 2.6150	\$ 2.6650	\$ 2.6150	\$ 2.6650	\$ 2.2800	\$ 2.2800	\$ 2.2800
23	\$ 4.4750	\$ 3.3100	\$ 2.9500	23	\$ 2.6150	\$ 2.6400	\$ 2.6150	\$ 2.6400	\$ 2.2700	\$ 2.2700	\$ 2.2700
24	\$ 4.4750	\$ 3.3100	\$ 2.9700	24	\$ 2.6150	\$ 2.6350	\$ 2.6150	\$ 2.6350	\$ 2.3600	\$ 2.3600	\$ 2.3600
25	\$ 4.4750	\$ 3.3100	\$ 2.9850	25	\$ 2.6150	\$ 2.5700	\$ 2.6150	\$ 2.5700	\$ 2.3600	\$ 2.3600	\$ 2.3600
26	\$ 4.4750	\$ 3.3100	\$ 2.9650	26	\$ 2.6150	\$ 2.5700	\$ 2.6150	\$ 2.5700	\$ 2.3600	\$ 2.3600	\$ 2.3600
27	\$ 4.1200	\$ 2.8800	\$ 2.9650	27	\$ 2.7600	\$ 2.5700	\$ 2.7600	\$ 2.5700	\$ 2.3950	\$ 2.3950	\$ 2.3950
28	\$ 4.1250	\$ 2.9800	\$ 2.9650	28	\$ 2.8350	\$ 2.5700	\$ 2.8350	\$ 2.5700			
29	\$ 4.2750	\$ 2.9800	\$ 2.9100	29	\$ 2.7650	\$ 2.5700					
30	\$ 4.3350	\$ 2.9800	\$ 2.8600	30		\$ 2.5700					
31		\$ 2.9800	\$ 2.8450	31		\$ 2.5700					
TOTAL	\$ 117.7000	\$ 116.7200	\$ 91.0450	TOTAL	\$ 72.0500	\$ 87.0100	\$ 87.0100	\$ 87.0100	\$ 74.0450	\$ 74.0450	\$ 74.0450
POSTINGS	30	31	31	POSTINGS	28	31	31	31	30	30	30
AVERAGE	\$ 3.9233	\$ 3.7652	\$ 2.9369	AVERAGE	\$ 2.5732	\$ 2.8068	\$ 2.8068	\$ 2.8068	\$ 2.4682	\$ 2.4682	\$ 2.4682

MAY 2019		JUNE 2019		JULY 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.3900	\$ 2.2750	\$ 2.1800		
2	\$ 2.4750	\$ 2.2750	\$ 2.0800		
3	\$ 2.4550	\$ 2.2750	\$ 2.0750		
4	\$ 2.3950	\$ 2.2300	\$ 2.1100		
5	\$ 2.3950	\$ 2.2200	\$ 2.1100		
6	\$ 2.3950	\$ 2.2450	\$ 2.1100		
7	\$ 2.3800	\$ 2.1450	\$ 2.1100		
8	\$ 2.3650	\$ 2.1100	\$ 2.1100		
9	\$ 2.4600	\$ 2.1100	\$ 2.2300		
10	\$ 2.4300	\$ 2.1100	\$ 2.2700		
11	\$ 2.4350	\$ 2.1900	\$ 2.3600		
12	\$ 2.4350	\$ 2.1800	\$ 2.3500		
13	\$ 2.4350	\$ 2.2450	\$ 2.3900		
14	\$ 2.4500	\$ 2.1700	\$ 2.3900		
15	\$ 2.4500	\$ 2.2000	\$ 2.3900		
16	\$ 2.4250	\$ 2.2000	\$ 2.2900		
17	\$ 2.4600	\$ 2.2000	\$ 2.2150		
18	\$ 2.4450	\$ 2.2350	\$ 2.2400		
19	\$ 2.4450	\$ 2.2150	\$ 2.2250		
20	\$ 2.4450	\$ 2.2300	\$ 2.1250		
21	\$ 2.5850	\$ 2.1500	\$ 2.1250		
22	\$ 2.4800	\$ 2.0250	\$ 2.1250		
23	\$ 2.4050	\$ 2.0250	\$ 2.1100		
24	\$ 2.4050	\$ 2.0250	\$ 2.0900		
25	\$ 2.3750	\$ 2.1250	\$ 2.0650		
26	\$ 2.3750	\$ 2.1200	\$ 2.0250		
27	\$ 2.3750	\$ 2.1250	\$ 1.9300		
28	\$ 2.3750	\$ 2.1550	\$ 1.9300		
29	\$ 2.3750	\$ 2.1550	\$ 1.9300		
30	\$ 2.4400	\$ 2.1550	\$ 2.0050		
31	\$ 2.4350		\$ 2.0400		
TOTAL	\$ 75.1900	\$ 65.1200	\$ 66.7350		
POSTINGS	31	30	31		
AVERAGE	\$ 2.4255	\$ 2.1707	\$ 2.1527		

AUGUST 2019		SEPTEMBER 2019		OCTOBER 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.0700	\$ 2.0900	\$ 2.0500		
2	\$ 2.1650	\$ 2.0900	\$ 2.1150		
3	\$ 1.9600	\$ 2.0900	\$ 2.0650		
4	\$ 1.9600	\$ 2.1700	\$ 2.0300		
5	\$ 1.9600	\$ 2.2400	\$ 2.0100		
6	\$ 1.9900	\$ 2.2250	\$ 2.0100		
7	\$ 2.0250	\$ 2.2950	\$ 2.0100		
8	\$ 2.0400	\$ 2.2950	\$ 1.8650		
9	\$ 1.9550	\$ 2.2950	\$ 2.0200		
10	\$ 1.9650	\$ 2.4050	\$ 1.9950		
11	\$ 1.9650	\$ 2.4600	\$ 1.9650		
12	\$ 1.9650	\$ 2.4050	\$ 1.8300		
13	\$ 1.9500	\$ 2.3950	\$ 1.8300		
14	\$ 1.9750	\$ 2.4100	\$ 1.8300		
15	\$ 1.9600	\$ 2.4100	\$ 2.0150		
16	\$ 2.0000	\$ 2.4100	\$ 2.0400		
17	\$ 2.0150	\$ 2.5150	\$ 2.1200		
18	\$ 2.0150	\$ 2.5350	\$ 2.0550		
19	\$ 2.0150	\$ 2.4250	\$ 1.8600		
20	\$ 2.0700	\$ 2.3300	\$ 1.8600		
21	\$ 2.0800	\$ 2.2500	\$ 1.8600		
22	\$ 2.0100	\$ 2.2500	\$ 1.9100		
23	\$ 2.0150	\$ 2.2500	\$ 2.0400		
24	\$ 1.9800	\$ 2.2800	\$ 2.1400		
25	\$ 1.9800	\$ 2.2850	\$ 2.1200		
26	\$ 1.9800	\$ 2.2450	\$ 2.0150		
27	\$ 1.9500	\$ 2.1450	\$ 2.0150		
28	\$ 1.9600	\$ 2.0000	\$ 2.0150		
29	\$ 2.0700	\$ 2.0000	\$ 2.2350		
30	\$ 2.0900	\$ 2.0000	\$ 2.4150		
31	\$ 2.0900		\$ 2.5750		
TOTAL	\$ 62.2250	\$ 68.1950	\$ 62.9150		
POSTINGS	31	30	31		
AVERAGE	\$ 2.0073	\$ 2.2732	\$ 2.0295		

**PBR-GAIF
INDICES
TENNESSEE – ZONE 1**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF SUPPLY AREA INDICES
 SAI (TGPL-Z1)

	NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE	PLATTS GAS DAILY AVERAGE LOUISIANA/ SOUTHEAST, TENNESSEE, 500 LEG	PLATTS INSIDE FERC's GAS MARKET REPORT LOUISIANA/SOUTHEAST, TENNESSEE, LOUISIANA, 500 LEG	AVERAGE
Nov. 18	\$3.8925	\$4.0030	\$3.1500	\$3.6818
Dec. 18	\$3.9100	\$3.8611	\$4.7100	\$4.1604
Jan. 19	\$3.0150	\$2.9968	\$3.5900	\$3.2006
Feb. 19	\$2.6300	\$2.6191	\$2.8800	\$2.7097
Mar. 19	\$2.9150	\$2.8394	\$2.7900	\$2.8481
Apr. 19	\$2.5320	\$2.5228	\$2.6500	\$2.5683
May 19	\$2.4825	\$2.5168	\$2.5000	\$2.4998
Jun. 19	\$2.2925	\$2.2530	\$2.5600	\$2.3685
Jul. 19	\$2.2280	\$2.2363	\$2.2000	\$2.2214
Aug. 19	\$2.1000	\$2.1355	\$2.0600	\$2.0985
Sep. 19	\$2.3500	\$2.5053	\$2.1900	\$2.3484
Oct. 19	\$2.0850	\$2.1873	\$2.3800	\$2.2174

**CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR GULF COAST, ONSHORE - LA**

NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE	NATURAL GAS WEEK GAS PRICE REPORT LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE
11/05/2018	\$3.1500			05/06/2019	\$2.4800		
11/12/2018	\$3.6000			05/13/2019	\$2.4600		
11/19/2018	\$4.2500			05/20/2019	\$2.5100		
11/26/2018	\$4.5700	\$3.8925		05/27/2019	\$2.4800	\$2.4825	
12/03/2018	\$4.3800			06/03/2019	\$2.4400		
12/10/2018	\$4.4400			06/10/2019	\$2.2900		
12/17/2018	\$4.1500			06/17/2019	\$2.2300		
12/24/2018	\$3.4800			06/24/2019	\$2.2100	\$2.2925	
12/31/2018	\$3.1000	\$3.9100		07/01/2019	\$2.2200		
01/07/2019	\$2.7900			07/08/2019	\$2.1500		
01/14/2019	\$2.8200			07/15/2019	\$2.3800		
01/21/2019	\$3.3600			07/22/2019	\$2.2600		
01/28/2019	\$3.0900	\$3.0150		07/29/2019	\$2.1300	\$2.2280	
02/04/2019	\$2.8100			08/05/2019	\$2.1000		
02/11/2019	\$2.5200			08/12/2019	\$2.0700		
02/18/2019	\$2.5600			08/19/2019	\$2.1100		
02/25/2019	\$2.6300	\$2.6300		08/26/2019	\$2.1200	\$2.1000	
03/04/2019	\$3.0800			09/02/2019	\$2.1900		
03/11/2019	\$3.1100			09/09/2019	\$2.3300		
03/18/2019	\$2.7400			09/16/2019	\$2.5600		
03/25/2019	\$2.7300	\$2.9150		09/23/2019	\$2.5200		
04/01/2019	\$2.6100			09/30/2019	\$2.1500	\$2.3500	
04/08/2019	\$2.5800			10/07/2019	\$2.1500		
04/15/2019	\$2.6000			10/14/2019	\$2.0200		
04/22/2019	\$2.4500			10/21/2019	\$2.0600		
04/29/2019	\$2.4200	\$2.5320		10/28/2019	\$2.1100	\$2.0850	

PBR YEAR TWENTY-TWO PLATTS GAS DAILY MIDPOINT PRICE
 LOUISIANA/SOUTHEAST, TENNESSEE, 500 LEG

NOVEMBER 2018		DECEMBER 2018		JANUARY 2019		FEBRUARY 2019		MARCH 2019		APRIL 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 3.1950	\$ 4.4750	\$ 3.1200	1	\$ 2.7600	\$ 2.8600	\$ 2.6300				
2	\$ 3.2100	\$ 4.4750	\$ 3.1200	2	\$ 2.6250	\$ 3.1050	\$ 2.6800				
3	\$ 3.1300	\$ 4.4750	\$ 2.6800	3	\$ 2.6250	\$ 3.1050	\$ 2.6350				
4	\$ 3.1300	\$ 4.3800	\$ 2.5900	4	\$ 2.6250	\$ 3.1050	\$ 2.5850				
5	\$ 3.1300	\$ 4.5900	\$ 2.6400	5	\$ 2.5100	\$ 4.0800	\$ 2.6200				
6	\$ 3.4400	\$ 4.5300	\$ 2.6400	6	\$ 2.5300	\$ 3.0300	\$ 2.5700				
7	\$ 3.4850	\$ 4.3350	\$ 2.6400	7	\$ 2.5350	\$ 2.9000	\$ 2.5700				
8	\$ 3.5200	\$ 4.4450	\$ 2.6200	8	\$ 2.5750	\$ 2.8450	\$ 2.5700				
9	\$ 3.5650	\$ 4.4450	\$ 2.8400	9	\$ 2.5400	\$ 2.8400	\$ 2.6250				
10	\$ 3.7250	\$ 4.4450	\$ 2.8350	10	\$ 2.5400	\$ 2.8400	\$ 2.6300				
11	\$ 3.7250	\$ 4.4850	\$ 2.8550	11	\$ 2.5400	\$ 2.8400	\$ 2.6350				
12	\$ 3.7250	\$ 4.4100	\$ 2.8200	12	\$ 2.6300	\$ 2.7450	\$ 2.6100				
13	\$ 3.8300	\$ 4.1200	\$ 2.8200	13	\$ 2.6050	\$ 2.7250	\$ 2.5750				
14	\$ 4.0150	\$ 4.1750	\$ 2.8200	14	\$ 2.5450	\$ 2.7450	\$ 2.5750				
15	\$ 4.4950	\$ 3.8150	\$ 3.3600	15	\$ 2.5400	\$ 2.7850	\$ 2.5750				
16	\$ 4.5000	\$ 3.8150	\$ 3.4850	16	\$ 2.5600	\$ 2.7850	\$ 2.5350				
17	\$ 4.2400	\$ 3.8150	\$ 3.5650	17	\$ 2.5600	\$ 2.7850	\$ 2.5150				
18	\$ 4.2400	\$ 3.5650	\$ 3.4200	18	\$ 2.5600	\$ 2.7850	\$ 2.4650				
19	\$ 4.2400	\$ 3.6200	\$ 3.2400	19	\$ 2.5600	\$ 2.8050	\$ 2.3800				
20	\$ 4.5300	\$ 3.4650	\$ 3.2400	20	\$ 2.6450	\$ 2.8150	\$ 2.3800				
21	\$ 4.5950	\$ 3.6450	\$ 3.2400	21	\$ 2.6450	\$ 2.7750	\$ 2.3800				
22	\$ 4.6100	\$ 3.4100	\$ 3.2400	22	\$ 2.6500	\$ 2.7350	\$ 2.3800				
23	\$ 4.6100	\$ 3.4100	\$ 3.0300	23	\$ 2.6600	\$ 2.7050	\$ 2.4450				
24	\$ 4.6100	\$ 3.4100	\$ 3.0400	24	\$ 2.6600	\$ 2.7050	\$ 2.3900				
25	\$ 4.6100	\$ 3.4100	\$ 3.0500	25	\$ 2.6600	\$ 2.7050	\$ 2.4250				
26	\$ 4.6100	\$ 3.4100	\$ 3.0550	26	\$ 2.8000	\$ 2.6950	\$ 2.4050				
27	\$ 4.2300	\$ 3.0400	\$ 3.0550	27	\$ 2.8600	\$ 2.6900	\$ 2.4700				
28	\$ 4.2750	\$ 3.0200	\$ 3.0550	28	\$ 2.7900	\$ 2.6100	\$ 2.4700				
29	\$ 4.4000	\$ 3.0200	\$ 2.9550	29		\$ 2.6250	\$ 2.4700				
30	\$ 4.4700	\$ 3.0200	\$ 2.9150	30		\$ 2.6250	\$ 2.4900				
31		\$ 3.0200	\$ 2.9150	31		\$ 2.6250					
TOTAL	\$ 120.0900	\$ 119.6950	\$ 92.9000	TOTAL	\$ 73.3350	\$ 88.0200	\$ 75.6850				
POSTINGS	30	31	31	POSTINGS	28	31	30				
AVERAGE	\$ 4.0030	\$ 3.8611	\$ 2.9968	AVERAGE	\$ 2.6191	\$ 2.8394	\$ 2.5228				

MAY 2019		JUNE 2019		JULY 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.5100	\$ 2.3800	\$ 2.2750		
2	\$ 2.5650	\$ 2.3800	\$ 2.1900		
3	\$ 2.5100	\$ 2.3800	\$ 2.2050		
4	\$ 2.4800	\$ 2.3300	\$ 2.1900		
5	\$ 2.4800	\$ 2.3500	\$ 2.1900		
6	\$ 2.4800	\$ 2.3000	\$ 2.1900		
7	\$ 2.4600	\$ 2.2650	\$ 2.1900		
8	\$ 2.4500	\$ 2.2200	\$ 2.1900		
9	\$ 2.5150	\$ 2.2200	\$ 2.3000		
10	\$ 2.4900	\$ 2.2200	\$ 2.3200		
11	\$ 2.4850	\$ 2.2300	\$ 2.4050		
12	\$ 2.4850	\$ 2.2450	\$ 2.4150		
13	\$ 2.4850	\$ 2.2700	\$ 2.3900		
14	\$ 2.5200	\$ 2.2200	\$ 2.3900		
15	\$ 2.5350	\$ 2.2550	\$ 2.3900		
16	\$ 2.5250	\$ 2.2550	\$ 2.3550		
17	\$ 2.5200	\$ 2.2550	\$ 2.2850		
18	\$ 2.5500	\$ 2.3100	\$ 2.3000		
19	\$ 2.5500	\$ 2.3000	\$ 2.2900		
20	\$ 2.5500	\$ 2.2850	\$ 2.1950		
21	\$ 2.6400	\$ 2.2200	\$ 2.1950		
22	\$ 2.5700	\$ 2.1400	\$ 2.1950		
23	\$ 2.5300	\$ 2.1400	\$ 2.2300		
24	\$ 2.5150	\$ 2.1400	\$ 2.2150		
25	\$ 2.5200	\$ 2.1800	\$ 2.1650		
26	\$ 2.5200	\$ 2.2050	\$ 2.1550		
27	\$ 2.5200	\$ 2.2500	\$ 2.1100		
28	\$ 2.5200	\$ 2.2150	\$ 2.1100		
29	\$ 2.5350	\$ 2.2150	\$ 2.1100		
30	\$ 2.5300	\$ 2.2150	\$ 2.1000		
31	\$ 2.4750		\$ 2.0850		
TOTAL	\$ 78.0200	\$ 67.5900	\$ 69.3250		
POSTINGS	31	30	31		
AVERAGE	\$ 2.5168	\$ 2.2530	\$ 2.2363		

AUGUST 2019		SEPTEMBER 2019		OCTOBER 2019	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.1750	\$ 2.2600	\$ 2.3250		
2	\$ 2.2550	\$ 2.2600	\$ 2.2800		
3	\$ 2.0500	\$ 2.2600	\$ 2.2650		
4	\$ 2.0500	\$ 2.3550	\$ 2.2350		
5	\$ 2.0500	\$ 2.4200	\$ 2.1950		
6	\$ 2.0500	\$ 2.4300	\$ 2.1950		
7	\$ 2.1000	\$ 2.5000	\$ 2.1950		
8	\$ 2.1000	\$ 2.5000	\$ 2.2250		
9	\$ 2.0900	\$ 2.5000	\$ 2.1750		
10	\$ 2.0950	\$ 2.6250	\$ 2.1950		
11	\$ 2.0950	\$ 2.6250	\$ 2.1600		
12	\$ 2.0950	\$ 2.6000	\$ 1.9650		
13	\$ 2.1400	\$ 2.5800	\$ 1.9650		
14	\$ 2.1300	\$ 2.5900	\$ 1.9650		
15	\$ 2.1100	\$ 2.5900	\$ 2.1900		
16	\$ 2.1400	\$ 2.5900	\$ 2.1900		
17	\$ 2.1600	\$ 2.7300	\$ 2.2450		
18	\$ 2.1600	\$ 2.7150	\$ 2.2300		
19	\$ 2.1600	\$ 2.6450	\$ 2.0800		
20	\$ 2.1700	\$ 2.5250	\$ 2.0800		
21	\$ 2.2100	\$ 2.5050	\$ 2.0800		
22	\$ 2.1800	\$ 2.5050	\$ 2.0400		
23	\$ 2.1600	\$ 2.5050	\$ 2.1750		
24	\$ 2.1200	\$ 2.5150	\$ 2.2150		
25	\$ 2.1200	\$ 2.5550	\$ 2.1850		
26	\$ 2.1200	\$ 2.5050	\$ 2.1100		
27	\$ 2.1500	\$ 2.4950	\$ 2.1100		
28	\$ 2.1400	\$ 2.4250	\$ 2.1100		
29	\$ 2.2050	\$ 2.4250	\$ 2.3500		
30	\$ 2.2100	\$ 2.4250	\$ 2.4600		
31	\$ 2.2100		\$ 2.6150		
TOTAL	\$ 66.2000	\$ 75.1600	\$ 67.8050		
POSTINGS	31	30	31		
AVERAGE	\$ 2.1355	\$ 2.5053	\$ 2.1873		

**PBR-GAIF
INDICES
DELIVERY AREA INDEX
("DAI")**

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia/Lebanon Hub
January 2019

Day	CALCULATION OF DAILY DAI TGT ZONE 1					CALCULATION OF DAILY DAI TGT ZONE 4					DAILY DAI FOR ZONES		HIGHER OF COLUMN 11 OR COLUMN 12	DAILY PEFDCC	TOTAL DOLLARS Col. 13 x Col. 14
	(1) PLATTS GAS DAILY MIDPOINT TEXAS GAS ZONE 1	(2) RETENTION	(3) NNS DEMAND	(4) NNS COMMODITY	(5) (Col. 1/(1-Col.2)) + Col. 3 + Col. 4 DAILY DAI TGT-1	(6) PLATTS GAS DAILY MIDPOINT APPALACHIA LEBANON HUB	(7) RETENTION	(8) NNS DEMAND	(9) NNS COMMODITY	(10) (Col. 6/(1-Col.7)) + Col. 8 + Col. 9 DAILY DAI TGT-4	(11) DAILY DAI TGT-1	(12) DAILY DAI TGT-4			
1	\$3.0700	1.70%	\$0.4190	\$0.0627	\$3.6048	\$3.0550	1.70%	\$0.4190	\$0.0627	\$3.5895	\$3.6048	\$3.5895	\$3.6048	0	\$0
2	\$3.0700	1.70%	\$0.4190	\$0.0627	\$3.6048	\$3.0550	1.70%	\$0.4190	\$0.0627	\$3.5895	\$3.6048	\$3.5895	\$3.6048	0	\$0
3	\$2.6050	1.70%	\$0.4190	\$0.0627	\$3.1318	\$2.6100	1.70%	\$0.4190	\$0.0627	\$3.1368	\$3.1318	\$3.1368	\$3.1368	0	\$0
4	\$2.5250	1.70%	\$0.4190	\$0.0627	\$3.0504	\$2.5000	1.70%	\$0.4190	\$0.0627	\$3.0249	\$3.0249	\$3.0249	\$3.0249	0	\$0
5	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$3.0605	\$3.0605	\$3.0605	0	\$0
6	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$3.0605	\$3.0605	\$3.0605	0	\$0
7	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$2.5350	1.70%	\$0.4190	\$0.0627	\$3.0605	\$3.0605	\$3.0605	\$3.0605	0	\$0
8	\$2.5450	1.70%	\$0.4190	\$0.0627	\$3.0707	\$2.5450	1.70%	\$0.4190	\$0.0627	\$3.0707	\$3.0707	\$3.0707	\$3.0707	0	\$0
9	\$2.7650	1.70%	\$0.4190	\$0.0627	\$3.2945	\$2.7450	1.70%	\$0.4190	\$0.0627	\$3.2742	\$3.2742	\$3.2742	\$3.2742	0	\$0
10	\$2.7600	1.70%	\$0.4190	\$0.0627	\$3.2894	\$2.7300	1.70%	\$0.4190	\$0.0627	\$3.2589	\$3.2894	\$3.2589	\$3.2894	0	\$0
11	\$2.7600	1.70%	\$0.4190	\$0.0627	\$3.2894	\$2.7300	1.70%	\$0.4190	\$0.0627	\$3.2589	\$3.2894	\$3.2589	\$3.2894	0	\$0
12	\$2.7350	1.70%	\$0.4190	\$0.0627	\$3.2640	\$2.7150	1.70%	\$0.4190	\$0.0627	\$3.2437	\$3.2640	\$3.2437	\$3.2640	0	\$0
13	\$2.7350	1.70%	\$0.4190	\$0.0627	\$3.2640	\$2.7150	1.70%	\$0.4190	\$0.0627	\$3.2437	\$3.2640	\$3.2437	\$3.2640	0	\$0
14	\$2.7350	1.70%	\$0.4190	\$0.0627	\$3.2640	\$2.7150	1.70%	\$0.4190	\$0.0627	\$3.2437	\$3.2640	\$3.2437	\$3.2640	0	\$0
15	\$3.2650	1.70%	\$0.4190	\$0.0627	\$3.8032	\$3.2950	1.70%	\$0.4190	\$0.0627	\$3.8337	\$3.8032	\$3.8337	\$3.8337	0	\$0
16	\$3.4200	1.70%	\$0.4190	\$0.0627	\$3.9608	\$3.4250	1.70%	\$0.4190	\$0.0627	\$3.9659	\$3.9608	\$3.9659	\$3.9659	0	\$0
17	\$3.4900	1.70%	\$0.4190	\$0.0627	\$4.0321	\$3.4750	1.70%	\$0.4190	\$0.0627	\$4.0168	\$4.0321	\$4.0168	\$4.0321	0	\$0
18	\$3.3600	1.70%	\$0.4190	\$0.0627	\$3.8998	\$3.3900	1.70%	\$0.4190	\$0.0627	\$3.9303	\$3.8998	\$3.9303	\$3.9303	0	\$0
19	\$3.2350	1.70%	\$0.4190	\$0.0627	\$3.7726	\$3.3000	1.70%	\$0.4190	\$0.0627	\$3.8388	\$3.7726	\$3.8388	\$3.8388	0	\$0
20	\$3.2350	1.70%	\$0.4190	\$0.0627	\$3.7726	\$3.3000	1.70%	\$0.4190	\$0.0627	\$3.8388	\$3.7726	\$3.8388	\$3.8388	0	\$0
21	\$3.2350	1.70%	\$0.4190	\$0.0627	\$3.7726	\$3.3000	1.70%	\$0.4190	\$0.0627	\$3.8388	\$3.7726	\$3.8388	\$3.8388	0	\$0
22	\$3.2350	1.70%	\$0.4190	\$0.0627	\$3.7726	\$3.3000	1.70%	\$0.4190	\$0.0627	\$3.8388	\$3.7726	\$3.8388	\$3.8388	0	\$0
23	\$2.9650	1.70%	\$0.4190	\$0.0627	\$3.4980	\$2.9400	1.70%	\$0.4190	\$0.0627	\$3.4725	\$3.4980	\$3.4725	\$3.4980	0	\$0
24	\$3.0500	1.70%	\$0.4190	\$0.0627	\$3.5844	\$3.0650	1.70%	\$0.4190	\$0.0627	\$3.5997	\$3.5844	\$3.5997	\$3.5997	0	\$0
25	\$3.0600	1.70%	\$0.4190	\$0.0627	\$3.5946	\$3.1000	1.70%	\$0.4190	\$0.0627	\$3.6353	\$3.5946	\$3.6353	\$3.6353	0	\$0
26	\$3.0450	1.70%	\$0.4190	\$0.0627	\$3.5794	\$3.0700	1.70%	\$0.4190	\$0.0627	\$3.6048	\$3.5794	\$3.6048	\$3.6048	0	\$0
27	\$3.0450	1.70%	\$0.4190	\$0.0627	\$3.5794	\$3.0700	1.70%	\$0.4190	\$0.0627	\$3.6048	\$3.5794	\$3.6048	\$3.6048	0	\$0
28	\$3.0450	1.70%	\$0.4190	\$0.0627	\$3.5794	\$3.0700	1.70%	\$0.4190	\$0.0627	\$3.6048	\$3.5794	\$3.6048	\$3.6048	0	\$0
29	\$3.0050	1.70%	\$0.4190	\$0.0627	\$3.5387	\$3.4450	1.70%	\$0.4190	\$0.0627	\$3.9863	\$3.5387	\$3.9863	\$3.9863	0	\$0
30	\$2.9200	1.70%	\$0.4190	\$0.0627	\$3.4522	\$3.5950	1.70%	\$0.4190	\$0.0627	\$4.1389	\$3.4522	\$4.1389	\$4.1389	8,826	\$36,530
31	\$2.8800	1.70%	\$0.4190	\$0.0627	\$3.4115	\$3.5200	1.70%	\$0.4190	\$0.0627	\$4.0626	\$3.4115	\$4.0626	\$4.0626	0	\$0
														8,826	\$36,530

**PBR-GAIF
CALCULATION OF
SUPPLY ZONE FIRM QUANTITY
ENTITLEMENT PERCENTAGE
("SZFQEP")**

LOUISVILLE GAS ELECTRIC COMPANY
 CALCULATION OF SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE
 FOR TEXAS GAS TRANSMISSION (TGT) AND TENNESSEE GAS PIPELINE COMPANY (TGPL)

COLUMN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
LATERAL CAPACITY AND FIRM MAINLINE RECEIPT POINT CAPACITY																		
WINTER SEASON																		
CONTRACTS	ZONE	NOV. 18	DEC. 18	JAN. 19	FEB. 19	MAR. 19	(SUM OF COL. 1-5)	ALLOCATION PERCENTAGE*	APR. 19	MAY 19	JUN. 19	JUL. 19	AUG. 19	SEP. 19	OCT. 19	(SUM OF COL. 8-15)	ALLOCATION PERCENTAGE*	
TGT-NNS-29781	SL	130,734	130,734	130,734	130,734	130,734	653,670	70.21%	56,890	56,890	56,890	56,890	56,890	56,890	56,890	388,203	60.92%	
	1	55,473	55,473	55,473	55,473	55,473	277,365	29.79%	24,473	24,473	24,473	24,473	24,473	24,473	24,473	171,311	30.08%	
	4	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0.00%	
	TOTAL	186,207	186,207	186,207	186,207	186,207	631,035	100.00%	81,372	81,372	81,372	81,372	81,372	81,372	81,372	560,504	100.00%	
TGT-FT-34951	SL	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0.00%	
	1	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0.00%	
	4	60,000	60,000	60,000	60,000	60,000	300,000	100.00%	60,000	60,000	60,000	60,000	60,000	60,000	60,000	420,000	100.00%	
	TOTAL	60,000	60,000	60,000	60,000	60,000	300,000	100.00%	60,000	60,000	60,000	60,000	60,000	60,000	60,000	420,000	100.00%	
TGPL-FT-A-111110	0	20,000	20,000	20,000	20,000	20,000	100,000	100.00%	20,000	20,000	20,000	20,000	20,000	20,000	20,000	140,000	100.00%	
	1	0	0	0	0	0	0	0.00%	0	0	0	0	0	0	0	0	0.00%	
	TOTAL	20,000	20,000	20,000	20,000	20,000	100,000	100.00%	20,000	20,000	20,000	20,000	20,000	20,000	20,000	140,000	100.00%	
COLUMN	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
CONTRACTS	WINTER SEASON QUANTITY ENTITLEMENT	WINTER ALLOCATION PERCENT (COL. 7)	TEXAS GAS 8ZFOE ZONE SL (C.17 x C.18)	TEXAS GAS 8ZFOE ZONE 1 (C.17 x C.19)	TEXAS GAS 8ZFOE ZONE 4 (C.17 x C.19)	TENNESSEE 8ZFOE ZONE 0 (C.17 x C.19)	TENNESSEE 8ZFOE ZONE 1 (C.17 x C.19)	TOTAL	SUMMER SEASON QUANTITY ENTITLEMENT	WINTER SEASON QUANTITY ENTITLEMENT	WINTER SEASON QUANTITY ENTITLEMENT	TEXAS GAS 8ZFOE ZONE SL (C.28 x C.28)	TEXAS GAS 8ZFOE ZONE 1 (C.28 x C.28)	TEXAS GAS 8ZFOE ZONE 4 (C.28 x C.28)	TENNESSEE 8ZFOE ZONE 0 (C.28 x C.28)	TENNESSEE 8ZFOE ZONE 1 (C.28 x C.28)	TOTAL	
TGT-NNS-29781	26,220,000	SL 70.21%	18,409,062	7,810,938	0	0	0	38,300,000	8,292,000	SL 69.82%	5,797,768	2,484,234	0	0	0	0	25,412,000	
		1 29.79%								1 30.08%								
		4 0.00%								4 0.00%								
TGT-FT-34951	9,080,000	SL 0.00%	0	0	9,080,000	0	0	12,840,000	SL 0.00%	0	0	0	12,840,000	0	0	0	12,840,000	
		1 0.00%								1 0.00%								
		4 100.00%								4 100.00%								
TGPL-FT-A-111110	3,020,000	0 100.00%	0	0	0	3,020,000	0	4,280,000	0 100.00%	0	0	0	0	0	4,280,000	0	4,280,000	
		1 0.00%								1 0.00%								
TOTALS	38,300,000		18,409,062	7,810,938	9,080,000	3,020,000	0	38,300,000	25,412,000			5,797,768	2,484,234	12,840,000	4,280,000	0	25,412,000	
SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENT**			48.07%	20.39%	23.69%	7.88%	0.00%	100.00%				22.81%	9.82%	50.53%	18.84%	0.00%	100.00%	

* ALLOCATION PERCENTAGE EQUALS TOTAL ZONE CAPACITY UNDER EACH CONTRACT DIVIDED BY TOTAL CAPACITY UNDER EACH CONTRACT.
 **THE WINTER SEASON SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE IS CALCULATED BY DIVIDING THE TOTAL OF COL. 20, 21, 22, 23, OR 24 BY THE TOTAL OF COL. 17.
 ***THE SUMMER SEASON SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENTAGE IS CALCULATED BY DIVIDING THE TOTAL OF COL. 29, 30, 31, 32, OR 33 BY THE TOTAL OF COL. 26.

PBR-TIF
SUPPORTING CALCULATIONS

**PBR-TIF
CALCULATION OF BENCHMARK GAS
TRANSPORTATION COSTS
("BMGTC")**

LOUISVILLE GAS & ELECTRIC COMPANY
 CALCULATION OF TOTAL ANNUAL BENCHMARK MONTHLY GAS TRANSPORTATION COSTS ("TABMGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

CALCULATION OF TEXAS GAS NO-NOTICE SERVICE PORTION OF BMGTC									
CALCULATION OF BASE TARIFF RATES					CALCULATION OF SURCHARGES				
MONTH	DAYS	NNS DEMAND CHARGES			NNS COMMODITY CHARGES			ACA	
		DEMAND CHARGE	CONTRACT DEMAND	TOTAL (1x2+3)	COMMODITY CHARGE	CITY-GATE DELIVERIES	TOTAL (5x6)	CHARGE	TOTAL (8x9)
NOV. 18	30	\$0.4190	184,900	\$2,324,193	\$0.0814	2,468,762	\$151,583	\$0.0013	\$3,210
DEC. 18	31	\$0.4190	184,900	\$2,401,686	\$0.0814	1,393,968	\$85,590	\$0.0013	\$1,812
JAN. 19	31	\$0.4190	184,900	\$2,401,686	\$0.0814	1,802,949	\$110,701	\$0.0013	\$2,344
FEB. 19	28	\$0.4190	184,900	\$2,189,247	\$0.0814	1,490,542	\$91,519	\$0.0013	\$1,938
MAR. 19	31	\$0.4190	184,900	\$2,401,686	\$0.0814	1,835,777	\$100,437	\$0.0013	\$2,127
APR. 19	30	\$0.4190	97,440	\$1,224,821	\$0.0814	181,838	\$11,185	\$0.0013	\$236
MAY 19	31	\$0.4190	80,000	\$779,340	\$0.0814	108,519	\$6,540	\$0.0013	\$139
JUN. 19	30	\$0.4190	80,000	\$754,200	\$0.0814	556,192	\$34,150	\$0.0013	\$723
JUL. 19	31	\$0.4190	80,000	\$779,340	\$0.0814	1,140,719	\$70,040	\$0.0013	\$1,483
AUG. 19	31	\$0.4190	80,000	\$779,340	\$0.0814	1,185,808	\$72,707	\$0.0013	\$1,541
SEP. 19	30	\$0.4190	80,000	\$754,200	\$0.0814	1,180,712	\$72,496	\$0.0013	\$1,535
OCT. 19	31	\$0.4190	117,020	\$1,519,973	\$0.0814	1,246,037	\$78,506	\$0.0013	\$1,620
TOTAL	365		1,438,960	\$18,289,652		14,389,843	\$883,524		\$18,708

CALCULATION OF TEXAS GAS RATE FT PORTION OF BMGTC																
CALCULATION OF BASE TARIFF RATES										TOTAL COMM.		TOTAL CITY-GATE		CALCULATION OF SURCHARGES		
MONTH	DAYS	FT DEMAND CHARGES			FT BACKHAUL COMMODITY CHARGES						(16X17) + (18X19) + (20X21)	CITY-GATE DELIVERY (15+17+19+21)	ACA			
		DEMAND CHARGE	CONTRACT DEMAND	TOTAL (10x11+12)	SL COMM. CHARGE	SL CITY-GATE DELIVERIES	Z1 COMM. CHARGE	Z1 CITY-GATE DELIVERIES	Z3 COMM. CHARGE	Z3 CITY-GATE DELIVERIES			Z4 COMM. CHARGE	Z4 CITY-GATE DELIVERIES	CHARGE	TOTAL
NOV. 18	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,133,844	\$40,818	1,133,844	\$0.0013	\$1,474
DEC. 18	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	939,897	\$33,836	939,897	\$0.0013	\$1,222
JAN. 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,248,223	\$44,936	1,248,223	\$0.0013	\$1,623
FEB. 19	28	\$0.1374	80,000	\$230,832	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	288,434	\$10,384	288,434	\$0.0013	\$375
MAR. 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	711,139	\$25,801	711,139	\$0.0013	\$924
APR. 19	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	745,950	\$26,854	745,950	\$0.0013	\$970
MAY 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	770,815	\$27,749	770,815	\$0.0013	\$1,002
JUN. 19	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,787,070	\$63,815	1,787,070	\$0.0013	\$2,297
JUL. 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,849,287	\$66,574	1,849,287	\$0.0013	\$2,404
AUG. 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,848,559	\$66,548	1,848,559	\$0.0013	\$2,403
SEP. 19	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,755,318	\$63,191	1,755,318	\$0.0013	\$2,282
OCT. 19	31	\$0.1374	80,000	\$255,584	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	1,847,770	\$66,520	1,847,770	\$0.0013	\$2,402
TOTAL	365		720,000	\$3,009,080		0		0		0		14,908,306	\$536,628	14,908,306		\$19,378

CALCULATION OF TEXAS GAS RATE STF PORTION OF BMGTC																
CALCULATION OF BASE TARIFF RATES										TOTAL COMM.		TOTAL CITY-GATE		CALCULATION OF SURCHARGES		
MONTH	DAYS	STF DEMAND CHARGES			STF COMMODITY CHARGES						(32X33) + (34X35) + (38X37)	CITY-GATE DELIVERY (31+33+35+37)	ACA			
		DEMAND CHARGE	CONTRACT DEMAND	TOTAL (28+27+28)	SL COMM. CHARGE	SL CITY-GATE DELIVERIES	Z1 COMM. CHARGE	Z1 CITY-GATE DELIVERIES	Z3 COMM. CHARGE	Z3 CITY-GATE DELIVERIES			Z4 COMM. CHARGE	Z4 CITY-GATE DELIVERIES	CHARGE	TOTAL
NOV. 18	30	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
DEC. 18	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
JAN. 19	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
FEB. 19	28	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
MAR. 19	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
APR. 19	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
MAY 19	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
JUN. 19	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
JUL. 19	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
AUG. 19	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
SEP. 19	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
OCT. 19	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0380	0	\$0	0	\$0.0013	\$0
TOTAL	365		0	\$0		0		0		0		0	\$0	0		\$0

LOUISVILLE GAS & ELECTRIC COMPANY
 CALCULATION OF TOTAL ANNUAL BENCHMARK MONTHLY GAS TRANSPORTATION COSTS ("TABMGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN	42	43	44	45
MONTH	NNS		TOTAL	TOTAL
	CALC. OF DIRECT BILLS		S&DB	NNS
	CASH- OUT	OTHER	(9+42+43)	(4+7+44)
NOV. 18	\$0	\$0	\$3,210	\$2,478,998
DEC. 18	\$0	\$0	\$1,812	\$2,489,068
JAN. 19	\$0	\$0	\$2,344	\$2,514,711
FEB. 19	\$0	\$0	\$1,038	\$2,262,704
MAR. 19	\$0	\$0	\$2,127	\$2,504,230
APR. 19	\$0	\$0	\$236	\$1,236,222
MAY 19	\$0	\$0	\$139	\$768,019
JUN. 19	\$0	\$0	\$723	\$789,073
JUL. 19	\$0	\$0	\$1,483	\$850,863
AUG. 19	\$0	\$0	\$1,541	\$853,678
SEP. 19	\$0	\$0	\$1,535	\$828,231
OCT. 19	\$0	\$0	\$1,820	\$1,598,099
TOTAL	\$0	\$0	\$18,708	\$19,191,884

COLUMN	46	47	48	49
MONTH	FT BACKHAUL		TOTAL S&DB	TOTAL FT BACKHAUL
	CALC. OF DIRECT BILLS		(25+46+)	BMGTC
	CASH- OUT	OTHER	47)	(13+22+)
NOV. 18	\$0	\$0	\$1,474	\$289,812
DEC. 18	\$0	\$0	\$1,222	\$290,822
JAN. 19	\$0	\$0	\$1,623	\$302,123
FEB. 19	\$0	\$0	\$375	\$241,591
MAR. 19	\$0	\$0	\$924	\$282,089
APR. 19	\$0	\$0	\$970	\$275,144
MAY 19	\$0	\$0	\$1,002	\$284,315
JUN. 19	\$0	\$0	\$2,297	\$313,232
JUL. 19	\$0	\$0	\$2,404	\$324,542
AUG. 19	\$0	\$0	\$2,403	\$324,515
SEP. 19	\$0	\$0	\$2,262	\$312,793
OCT. 19	\$0	\$0	\$2,402	\$324,488
TOTAL	\$0	\$0	\$18,378	\$3,585,064

COLUMN	50	51	52	53
MONTH	STF		TOTAL S&DB	TOTAL STF
	CALC. OF DIRECT BILLS		(41+50+)	BMGTC
	CASH- OUT	OTHER	51)	(29+58+)
NOV. 18	\$0	\$0	\$0	\$0
DEC. 18	\$0	\$0	\$0	\$0
JAN. 19	\$0	\$0	\$0	\$0
FEB. 19	\$0	\$0	\$0	\$0
MAR. 19	\$0	\$0	\$0	\$0
APR. 19	\$0	\$0	\$0	\$0
MAY 19	\$0	\$0	\$0	\$0
JUN. 19	\$0	\$0	\$0	\$0
JUL. 19	\$0	\$0	\$0	\$0
AUG. 19	\$0	\$0	\$0	\$0
SEP. 19	\$0	\$0	\$0	\$0
OCT. 19	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$0	\$0

LOUISVILLE GAS ELECTRIC COMPANY
 CALCULATION OF TOTAL ANNUAL BENCHMARK MONTHLY GAS TRANSPORTATION COSTS ("TABMGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN 54

<u>MONTH</u>	<u>TOTAL BM(TGT) (45+49+53)</u>
NOV. 18	\$2,768,568
DEC. 18	\$2,779,690
JAN. 19	\$2,816,834
FEB. 19	\$2,504,295
MAR. 19	\$2,786,319
APR. 19	\$1,511,366
MAY 19	\$1,070,334
JUN. 19	\$1,102,305
JUL. 19	\$1,175,405
AUG. 19	\$1,178,193
SEP. 19	\$1,141,024
OCT. 19	\$1,922,585
TOTAL	\$22,756,948

LOUISVILLE GAS ELECTRIC COMPANY
 CALCULATION OF TOTAL ANNUAL BENCHMARK MONTHLY GAS TRANSPORTATION COSTS ("TABMGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN	SUMMARY OF PIPELINE BENCHMARKS			
	96		97	
	TOTAL	TOTAL	TOTAL	TABMGTC
MONTH	BM(TGT) COL. 54	BM(TGPL) COL. 95	BM(PPL) COL. 96	(96+97+98)
NOV. 18	\$2,768,598	\$331,034	\$0	\$3,099,632
DEC. 18	\$2,779,890	\$330,996	\$0	\$3,110,886
JAN. 19	\$2,818,834	\$332,417	\$0	\$3,149,251
FEB. 19	\$2,504,295	\$329,281	\$0	\$2,833,556
MAR. 19	\$2,796,319	\$322,331	\$0	\$3,108,650
APR. 19	\$1,511,366	\$307,856	\$0	\$1,819,222
MAY 19	\$1,070,334	\$305,428	\$0	\$1,375,762
JUN. 19	\$1,102,305	\$305,428	\$0	\$1,407,733
JUL. 19	\$1,175,405	\$305,430	\$0	\$1,480,835
AUG. 19	\$1,178,193	\$304,547	\$0	\$1,482,740
SEP. 19	\$1,141,024	\$304,888	\$0	\$1,445,912
OCT. 19	\$1,922,585	\$302,154	\$0	\$2,224,739
TOTAL	\$22,756,948	\$3,781,770	\$0	\$26,538,718

*THERE WERE NO TRANSACTIONS WHICH
 REQUIRED LG&E TO USE PIPELINE SERVICES
 OTHER THAN THOSE IT HAD UNDER CONTRACT.
 THEREFORE, NO PROXY PIPELINE BENCHMARK
 HAS BEEN CALCULATED.

**PBR-TIF
CALCULATION OF ANNUAL ACTUAL GAS
TRANSPORTATION COSTS
("AAGTC")**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF TOTAL ACTUAL ANNUAL GAS TRANSPORTATION COSTS ("TAAGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN	1	2	3
MONTH	ACTUAL PIPELINE TRANSPORTATION COSTS - TEXAS GAS	ACTUAL ANNUAL GAS TRANSPORT. COSTS - TENNESSEE	TOTAL ANNUAL ACTUAL GAS TRANSPORTATION COSTS ("TAAGTC") (1 + 2)
NOV. 18	\$2,768,598	\$126,318	\$2,894,916
DEC. 18	\$2,779,690	\$126,280	\$2,905,970
JAN. 19	\$2,816,834	\$127,701	\$2,944,535
FEB. 19	\$2,504,295	\$124,545	\$2,628,840
MAR. 19	\$2,786,319	\$117,615	\$2,903,934
APR. 19	\$1,511,366	\$103,140	\$1,614,506
MAY 19	\$1,070,334	\$100,712	\$1,171,046
JUN. 19	\$1,102,305	\$100,712	\$1,203,017
JUL. 19	\$1,175,405	\$100,714	\$1,276,119
AUG. 19	\$1,178,193	\$99,831	\$1,278,024
SEP. 19	\$1,141,024	\$100,172	\$1,241,196
OCT. 19	\$1,922,585	\$97,438	\$2,020,023
TOTAL	\$22,756,948	\$1,325,178	\$24,082,126

**PBR-TIF
CALCULATION OF SAVINGS AND/OR EXPENSES**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF SAVINGS AND EXPENSES
 UNDER PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN	1	2	3
	<u>TABMGTC</u>	<u>TAAGTC</u>	<u>SAVINGS (EXPENSE)</u> <u>(1 - 2)</u>
NOV. 18	\$3,099,632	\$2,894,916	\$204,716
DEC. 18	\$3,110,686	\$2,905,970	\$204,716
JAN. 19	\$3,149,251	\$2,944,535	\$204,716
FEB. 19	\$2,833,556	\$2,628,840	\$204,716
MAR. 19	\$3,108,650	\$2,903,934	\$204,716
APR. 19	\$1,819,222	\$1,614,506	\$204,716
MAY 19	\$1,375,762	\$1,171,046	\$204,716
JUN. 19	\$1,407,733	\$1,203,017	\$204,716
JUL. 19	\$1,480,835	\$1,276,119	\$204,716
AUG. 19	\$1,482,740	\$1,278,024	\$204,716
SEP. 19	\$1,445,912	\$1,241,196	\$204,716
OCT. 19	\$2,224,739	\$2,020,023	\$204,716
TOTAL	\$26,538,718	\$24,082,126	\$2,456,592

**PBR-TIF
TARIFF SHEETS**

**PBR-TIF
TEXAS GAS TARIFF SHEETS
RATE NNS**

**Currently Effective Maximum Transportation Rates (\$ per MMBtu)
 For Service Under Rate Schedule NNS**

	Base Tariff Rates
Zone SL	
Daily Demand	0.1800
Commodity	0.0253
Overrun	0.2053
Zone 1	
Daily Demand	0.2782
Commodity	0.0431
Overrun	0.3213
Zone 2	
Daily Demand	0.3088
Commodity	0.0460
Overrun	0.3548
Zone 3	
Daily Demand	0.3543
Commodity	0.0490
Overrun	0.4033
Zone 4	
Daily Demand	0.4190
Commodity	0.0614
Overrun	0.4804

The above rates shall be increased to include the ACA unit charge pursuant to Section 6.9[7] of the General Terms and Conditions.

Minimum Rate: Demand \$-0-; Commodity - Zone SL 0.0163
 Zone 1 0.0186
 Zone 2 0.0223
 Zone 3 0.0262
 Zone 4 0.0308

Notes:

- The maximum reservation charge component of the maximum firm volumetric capacity release rate shall be the applicable maximum daily demand rate herein pursuant to Section 6.16 of the General Terms and Conditions.

**PBR-TIF
TEXAS GAS TARIFF SHEETS
RATE FT**

**Currently Effective Maximum Daily Demand Rates (\$ per MMBtu)
For Service Under Rate Schedule FT**

Currently Effective Rates [1]

SL-SL	0.0794
SL-1	0.1552
SL-2	0.2120
SL-3	0.2494
SL-4	0.3142
1-1	0.1252
1-2	0.1820
1-3	0.2194
1-4	0.2842
2-2	0.1332
2-3	0.1705
2-4	0.2334
3-3	0.1181
3-4	0.1810
4-4	0.1374

Minimum Rates: Demand \$-0-

Backhaul rates equal forward haul rates from Zone SL to zone of delivery; provided, however, that intra-zone rates shall apply to intra-zone transportation, whether such intra-zone transportation is forward haul or backhaul.

[1] Currently Effective Rates are equal to the Base Tariff Rates.

Notes:

- The maximum reservation charge component of the maximum firm volumetric capacity release rate shall be the applicable maximum daily demand rate herein pursuant to Section 6.16 of the General Terms and Conditions.

**Currently Effective Maximum Commodity Rates (\$ per MMBtu)
For Service Under Rate Schedule FT**

	Base Tariff Rates
SL-SL	0.0104
SL-1	0.0355
SL-2	0.0399
SL-3	0.0445
SL-4	0.0528
1-1	0.0337
1-2	0.0385
1-3	0.0422
1-4	0.0508
2-2	0.0323
2-3	0.0360
2-4	0.0446
3-3	0.0312
3-4	0.0398
4-4	0.0360

The above rates shall be increased to include the ACA unit charge pursuant to Section 6.9[7] of the General Terms and Conditions.

Minimum Rates: Commodity minimum base rates are presented in Section 4.12.

Backhaul rates equal forward haul rates from Zone SL to zone of delivery; provided, however, that intra-zone rates shall apply to intra-zone transportation, whether such intra-zone transportation is forward haul or backhaul.

PBR-TIF
TENNESSEE TARIFF SHEETS
RATE FT-A

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
 RATE SCHEDULE FOR FT-A

Base Reservation Rates	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$5.4269		\$11.3406	\$15.2546	\$15.5246	\$17.0584	\$18.1067	\$22.7176
	L		\$4.8178						
	1	\$8.1697		\$7.8313	\$10.4219	\$14.7637	\$14.5399	\$16.3977	\$20.1633
	2	\$15.2547		\$10.3593	\$5.3879	\$5.0367	\$6.4446	\$8.8638	\$11.4421
	3	\$15.5246		\$8.2056	\$5.4314	\$3.9184	\$6.0190	\$10.8858	\$12.5789
	4	\$19.7110		\$18.1718	\$6.9250	\$10.5240	\$5.1514	\$5.5711	\$7.9589
	5	\$23.5025		\$16.5148	\$7.2643	\$8.7898	\$5.7227	\$5.3680	\$6.9882
	6	\$27.1880		\$18.9685	\$13.0548	\$14.3818	\$10.1587	\$5.3443	\$4.6263

Daily Base Reservation Rate 1/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.1784		\$0.3728	\$0.5015	\$0.5104	\$0.5608	\$0.5953	\$0.7469
	L		\$0.1584						
	1	\$0.2686		\$0.2575	\$0.3426	\$0.4854	\$0.4780	\$0.5391	\$0.6629
	2	\$0.5015		\$0.3406	\$0.1771	\$0.1656	\$0.2119	\$0.2914	\$0.3762
	3	\$0.5104		\$0.2698	\$0.1786	\$0.1288	\$0.1979	\$0.3579	\$0.4136
	4	\$0.6480		\$0.5974	\$0.2277	\$0.3460	\$0.1694	\$0.1832	\$0.2617
	5	\$0.7727		\$0.5430	\$0.2388	\$0.2890	\$0.1881	\$0.1765	\$0.2297
	6	\$0.8939		\$0.6236	\$0.4292	\$0.4728	\$0.3340	\$0.1757	\$0.1521

Maximum Reservation Rates 2 /, 3 /	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$5.4437		\$11.3574	\$15.2714	\$15.5414	\$17.0752	\$18.1235	\$22.7344
	L		\$4.8346						
	1	\$8.1865		\$7.8481	\$10.4387	\$14.7805	\$14.5567	\$16.4145	\$20.1801
	2	\$15.2715		\$10.3761	\$5.4047	\$5.0535	\$6.4614	\$8.8806	\$11.4589
	3	\$15.5414		\$8.2224	\$5.4482	\$3.9352	\$6.0358	\$10.9026	\$12.5957
	4	\$19.7278		\$18.1886	\$6.9418	\$10.5408	\$5.1682	\$5.5879	\$7.9757
	5	\$23.5193		\$16.5316	\$7.2811	\$8.8066	\$5.7395	\$5.3848	\$7.0050
	6	\$27.2048		\$18.9853	\$13.0716	\$14.3986	\$10.1755	\$5.3611	\$4.6431

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.0000.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0168.

RATES PER DEKATHERM

FIRM TRANSPORTATION RATES
 RATE SCHEDULE FOR FT-A

Base Reservation Rates	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$5.5411		\$11.5794	\$15.5758	\$15.8514	\$17.4175	\$18.4879	\$23.1959
	L		\$4.9193						
	1	\$8.3417		\$7.9962	\$10.6413	\$15.0745	\$14.8460	\$16.7429	\$20.5878
	2	\$15.5759		\$10.5774	\$5.5014	\$5.1427	\$6.5803	\$9.0504	\$11.6830
	3	\$15.8514		\$8.3784	\$5.5458	\$4.0009	\$6.1457	\$11.1149	\$12.8437
	4	\$20.1259		\$18.5544	\$7.0708	\$10.7456	\$5.2598	\$5.6884	\$8.1265
	5	\$23.9973		\$16.8625	\$7.4172	\$8.9748	\$5.8432	\$5.4810	\$7.1353
	6	\$27.7603		\$19.3678	\$13.3296	\$14.6845	\$10.3726	\$5.4568	\$4.7237

Daily Base Reservation Rate 1/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.1822		\$0.3807	\$0.5121	\$0.5211	\$0.5726	\$0.6078	\$0.7626
	L		\$0.1617						
	1	\$0.2742		\$0.2629	\$0.3499	\$0.4956	\$0.4881	\$0.5505	\$0.6769
	2	\$0.5121		\$0.3478	\$0.1809	\$0.1691	\$0.2163	\$0.2975	\$0.3841
	3	\$0.5211		\$0.2755	\$0.1823	\$0.1315	\$0.2021	\$0.3654	\$0.4223
	4	\$0.6617		\$0.6100	\$0.2325	\$0.3533	\$0.1729	\$0.1870	\$0.2672
	5	\$0.7890		\$0.5544	\$0.2439	\$0.2951	\$0.1921	\$0.1802	\$0.2346
	6	\$0.9127		\$0.6367	\$0.4382	\$0.4828	\$0.3410	\$0.1794	\$0.1553

Maximum Reservation Rates 2 /, 3 /	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$5.5579		\$11.5962	\$15.5926	\$15.8682	\$17.4343	\$18.5047	\$23.2127
	L		\$4.9361						
	1	\$8.3585		\$8.0130	\$10.6581	\$15.0913	\$14.8628	\$16.7597	\$20.6046
	2	\$15.5927		\$10.5942	\$5.5182	\$5.1595	\$6.5971	\$9.0672	\$11.6998
	3	\$15.8682		\$8.3952	\$5.5626	\$4.0177	\$6.1625	\$11.1317	\$12.8605
	4	\$20.1427		\$18.5712	\$7.0876	\$10.7624	\$5.2766	\$5.7052	\$8.1433
	5	\$24.0141		\$16.8793	\$7.4340	\$8.9916	\$5.8600	\$5.4978	\$7.1521
	6	\$27.7771		\$19.3846	\$13.3464	\$14.7013	\$10.3894	\$5.4736	\$4.7405

Notes:

- 1/ Applicable to demand charge credits and secondary points under discounted rate agreements.
- 2/ Includes a per Dth charge for the PCB Surcharge Adjustment per Article XXXII of the General Terms and Conditions of \$0.0000.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0168.

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base
 Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2613	\$0.2494	\$0.2968
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.2222	\$0.2266	\$0.2587
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0719	\$0.1153	\$0.1278
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0961	\$0.1330	\$0.1452
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0445	\$0.0629	\$0.1019
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0626	\$0.0620	\$0.0770
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0963	\$0.0522	\$0.0317

Minimum
 Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
 Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0038		\$0.0121	\$0.0183	\$0.0225	\$0.2619	\$0.2500	\$0.2974
L		\$0.0018						
1	\$0.0048		\$0.0087	\$0.0153	\$0.0185	\$0.2228	\$0.2272	\$0.2593
2	\$0.0173		\$0.0093	\$0.0018	\$0.0034	\$0.0725	\$0.1159	\$0.1284
3	\$0.0213		\$0.0175	\$0.0032	\$0.0008	\$0.0967	\$0.1336	\$0.1458
4	\$0.0256		\$0.0211	\$0.0093	\$0.0111	\$0.0451	\$0.0635	\$0.1025
5	\$0.0290		\$0.0262	\$0.0106	\$0.0124	\$0.0632	\$0.0626	\$0.0776
6	\$0.0352		\$0.0306	\$0.0149	\$0.0169	\$0.0969	\$0.0528	\$0.0323

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0006.

RATES PER DEKATHERM

COMMODITY RATES
 RATE SCHEDULE FOR FT-A

Base
 Commodity Rates

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.2668	\$0.2546	\$0.3030
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.2269	\$0.2313	\$0.2641
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0734	\$0.1178	\$0.1305
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0982	\$0.1358	\$0.1482
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0454	\$0.0642	\$0.1041
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0639	\$0.0633	\$0.0787
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0984	\$0.0533	\$0.0324

Minimum
 Commodity Rates 1/, 2/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0032		\$0.0115	\$0.0177	\$0.0219	\$0.0250	\$0.0284	\$0.0346
L		\$0.0012						
1	\$0.0042		\$0.0081	\$0.0147	\$0.0179	\$0.0210	\$0.0256	\$0.0300
2	\$0.0167		\$0.0087	\$0.0012	\$0.0028	\$0.0056	\$0.0100	\$0.0143
3	\$0.0207		\$0.0169	\$0.0026	\$0.0002	\$0.0081	\$0.0118	\$0.0163
4	\$0.0250		\$0.0205	\$0.0087	\$0.0105	\$0.0028	\$0.0046	\$0.0092
5	\$0.0284		\$0.0256	\$0.0100	\$0.0118	\$0.0046	\$0.0046	\$0.0066
6	\$0.0346		\$0.0300	\$0.0143	\$0.0163	\$0.0086	\$0.0041	\$0.0020

Maximum
 Commodity Rates 1/, 2/, 3/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0038		\$0.0121	\$0.0183	\$0.0225	\$0.2674	\$0.2552	\$0.3036
L		\$0.0018						
1	\$0.0048		\$0.0087	\$0.0153	\$0.0185	\$0.2275	\$0.2319	\$0.2647
2	\$0.0173		\$0.0093	\$0.0018	\$0.0034	\$0.0740	\$0.1184	\$0.1311
3	\$0.0213		\$0.0175	\$0.0032	\$0.0008	\$0.0988	\$0.1364	\$0.1488
4	\$0.0256		\$0.0211	\$0.0093	\$0.0111	\$0.0460	\$0.0648	\$0.1047
5	\$0.0290		\$0.0262	\$0.0106	\$0.0124	\$0.0645	\$0.0639	\$0.0793
6	\$0.0352		\$0.0306	\$0.0149	\$0.0169	\$0.0990	\$0.0539	\$0.0330

Notes:

- 1/ Rates stated above exclude the ACA Surcharge as revised annually and posted on the FERC website at <http://www.ferc.gov> on the Annual Charges page of the Natural Gas section. The ACA Surcharge is incorporated by reference into Transporter's Tariff and shall apply to all transportation under this Rate Schedule as provided in Article XXIV of the General Terms and Conditions.
- 2/ The applicable F&LR's and EPCR's, determined pursuant to Article XXXVII of the General Terms and Conditions, are listed on Sheet No. 32.
- 3/ Includes a per Dth charge for the PS/GHG Surcharge Adjustment per Article XXXVIII of the General Terms and Conditions of \$0.0006.

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	0.46%		1.71%	2.68%	3.32%	3.86%	4.36%	5.18%
L		0.17%						
1	0.62%		1.21%	2.17%	2.71%	3.25%	3.95%	4.51%
2	2.61%		1.30%	0.16%	0.41%	0.88%	1.57%	2.18%
3	3.32%		2.64%	0.41%	0.02%	1.27%	1.89%	2.52%
4	3.86%		3.01%	1.29%	1.56%	0.43%	0.73%	1.35%
5	4.56%		3.95%	1.57%	1.89%	0.72%	0.72%	0.95%
6	5.46%		4.72%	2.18%	2.52%	1.26%	0.55%	0.21%

Broad Run Expansion Project - Market Component (Z3-Z1): 5/ 4.62%

EPCR 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0033		\$0.0129	\$0.0199	\$0.0248	\$0.0299	\$0.0340	\$0.0408
L		\$0.0011						
1	\$0.0045		\$0.0090	\$0.0165	\$0.0202	\$0.0251	\$0.0307	\$0.0353
2	\$0.0199		\$0.0097	\$0.0010	\$0.0029	\$0.0065	\$0.0118	\$0.0162
3	\$0.0248		\$0.0202	\$0.0029	\$0.0000	\$0.0095	\$0.0140	\$0.0187
4	\$0.0299		\$0.0231	\$0.0096	\$0.0117	\$0.0031	\$0.0054	\$0.0101
5	\$0.0340		\$0.0307	\$0.0118	\$0.0140	\$0.0053	\$0.0052	\$0.0070
6	\$0.0408		\$0.0353	\$0.0162	\$0.0187	\$0.0094	\$0.0040	\$0.0014

Broad Run Expansion Project - Market Component (Z3-Z1): 5/ \$0.0308

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to -0.04%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.00%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project - Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above. Included in the above F&LR is the Losses component of the F&LR equal to -0.04%.

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	0.51%		1.54%	2.28%	2.86%	3.33%	3.75%	4.44%
L		0.26%						
1	0.63%		1.12%	1.92%	2.31%	2.82%	3.41%	3.88%
2	2.33%		1.19%	0.25%	0.46%	0.85%	1.43%	1.93%
3	2.86%		2.31%	0.46%	0.14%	1.17%	1.69%	2.20%
4	3.33%		2.62%	1.19%	1.41%	0.48%	0.73%	1.24%
5	3.88%		3.41%	1.44%	1.69%	0.72%	0.71%	0.91%
6	4.63%		4.02%	1.93%	2.20%	1.17%	0.57%	0.30%

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ 4.76%

EPCR 3/, 4/

RECEIPT ZONE	DELIVERY ZONE							
	0	L	1	2	3	4	5	6
0	\$0.0039		\$0.0151	\$0.0233	\$0.0290	\$0.0350	\$0.0398	\$0.0477
L		\$0.0013						
1	\$0.0053		\$0.0105	\$0.0193	\$0.0236	\$0.0293	\$0.0359	\$0.0412
2	\$0.0233		\$0.0113	\$0.0012	\$0.0034	\$0.0076	\$0.0138	\$0.0190
3	\$0.0290		\$0.0236	\$0.0034	\$0.0000	\$0.0111	\$0.0164	\$0.0219
4	\$0.0350		\$0.0271	\$0.0113	\$0.0137	\$0.0036	\$0.0063	\$0.0118
5	\$0.0398		\$0.0359	\$0.0138	\$0.0164	\$0.0062	\$0.0061	\$0.0082
6	\$0.0477		\$0.0412	\$0.0190	\$0.0219	\$0.0110	\$0.0046	\$0.0017

Broad Run Expansion Project – Market Component (Z3-Z1): 5/ \$0.0308

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.10%.
- 2/ For service that is rendered entirely by displacement and for gas scheduled and allocated for receipt at the Dracut, Massachusetts receipt point, Shipper shall render only the quantity of gas associated with Losses of 0.10%.
- 3/ The F&LR's and EPCR's listed above are applicable to FT-A, FT-BH, FT-G, FT-GS, and IT.
- 4/ The F&LR's and EPCR's determined pursuant to Article XXXVII of the General Terms and Conditions.
- 5/ The incremental F&LR and EPCR set forth above are applicable to a Shipper(s) utilizing capacity on the Broad Run Expansion Project – Market Component facilities, from any receipt point(s) to any delivery point(s) located on the project's transportation path. Any service provided to a Shipper(s) outside the project's transportation path shall be subject to the greater of the incremental F&LR and EPCR for the project or the applicable F&LR and EPCR for the applicable receipt(s) and delivery point(s) as shown in the rate matrices above.

**FERC ACA UNIT CHARGE
EFFECTIVE OCTOBER 1, 2018**

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2017 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 26, 2018

The annual charges unit charge (ACA) to be applied to in fiscal year 2019 for recovery of FY 2018 Current year and 2017 True-Up is **\$0.0013** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2018.

The following calculations were used to determine the FY 2018 unit charge:

2018 CURRENT:

Estimated Program Cost \$66,791,000 divided by 49,985,774,086 Dth = 0.0013362002

2017 TRUE-UP:

Debit/Credit Cost (\$316,993) divided by 47,717,356,257 Dth = (0.0000066431)

TOTAL UNIT CHARGE = 0.0013295571

If you have any questions, please contact Raven A. Rodriguez at (202)502-6276 or e-mail at Raven.Rodriguez@ferc.gov.

PUBLIC

**FERC ACA UNIT CHARGE
EFFECTIVE OCTOBER 1, 2019**

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2019 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 18, 2019

The annual charges unit charge (ACA) to be applied to in fiscal year 2020 for recovery of FY 2019 Current year and 2018 True-Up is **\$0.0013** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2019.

The following calculations were used to determine the FY 2019 unit charge:

2019 CURRENT:

Estimated Program Cost \$72,947,000 divided by 56,271,363,511 Dth = 0.0012963432

2018 TRUE-UP:

Debit/Credit Cost (\$1,595,692) divided by 49,876,999,197 Dth = (0.0000319925)

TOTAL UNIT CHARGE = 0.0012643507

If you have any questions, please contact Raven A. Rodriguez at (202)502-6276 or e-mail at Raven.Rodriguez@ferc.gov.

PUBLIC

**PBR-OSSIF
SUPPORTING CALCULATIONS**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF NET REVENUE
 UNDER PBR OFF-SYSTEM SALES INDEX FACTOR ("OSSIF")

COLUMN	1	2	3	4	5	6	7
	OFF-SYSTEM SALES REVENUE ("OSREV")	OUT OF POCKET COSTS ("OOPC")				TOTAL OOPC	NET REVENUE ("NR") (1 - 6)
		GAS COSTS ("GC")	TRANSPORT COSTS ("TC")	STORAGE COSTS ("SC")	OTHER COSTS		
NOV. 18	\$455,500	\$306,000	\$0	\$0	\$0	\$306,000	\$149,500
DEC. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JAN. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FEB. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAR. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
APR. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAY 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUN. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUL. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AUG. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEP. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OCT. 19	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS	\$455,500	\$306,000	\$0	\$0	\$0	\$306,000	\$149,500

**PBR-OSSIF
CALCULATION OF OFF-SYSTEM SALES REVENUE
("OSREV"), OUT-OF-POCKET COSTS ("OOPC"), AND
NET REVENUE ("NR")**

**CSPBR
CALCULATION OF COMPANY SHARE OF
PERFORMANCE-BASED RATEMAKING
SAVINGS OR EXPENSES**

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF COMPANY SHARE OF PBR SAVINGS OR EXPENSES
 (CSPBR)

	Total PBR Results (TPBRR)	Company Sharing Company	Customer Sharing Percentage	Customer Portion	Company Portion	Total
25/75 Company/Customer Sharing Up to 3.0% of TAGSC	\$3,440,696	25%	75%	\$2,580,522	\$860,174	\$3,440,696
50/50 Company/Customer Sharing in Excess of 3.0% of TAGSC	\$3,704,621	50%	50%	\$1,852,310	\$1,852,311	\$3,704,621
	<u>\$7,145,317</u>			<u>\$4,432,832</u>	<u>\$2,712,485</u>	<u>\$7,145,317</u>
Portion of Company Savings Attributable to Demand Costs		34.38%			\$932,552	
Portion of Company Savings Attributable to Commodity Costs		<u>65.62%</u>			\$1,779,933	
Total Company Portion of Savings		<u>100.00%</u>		CSPBR	<u>\$2,712,485</u>	

LOUISVILLE GAS AND ELECTRIC COMPANY
 CALCULATION OF COMPANY SHARE OF PBR SAVINGS OR EXPENSES
 (CSPBR)

(1)	(2)	(3)	(4)		(5)	(6)	(7)
<u>Total Gas Supply Cost Performance-Based Ratemaking Savings</u>					<u>Benchmarked Gas Costs</u>		<u>PTAGSC</u>
			<u>Demand/Commodity Allocation</u>				<u>(Col. 3 / 6)</u>
			<u>Demand</u>	<u>Commodity</u>			
Gas Acquisition Index Factor					Actual Gas Costs		
GAIF							
	Demand	\$0	0.00%				
	Commodity	<u>\$4,539,225</u>	63.53%				
	Total	\$4,539,225			AGC	\$90,607,727	
Transportation Index Factor					Actual Transportation Costs		
TIF							
	Demand	\$2,456,592	34.38%				
	Commodity	<u>\$0</u>	0.00%				
	Total	\$2,456,592			TAAGTC	\$24,082,126	
Off-System Sales Index Factor							
OSSIF							
	Demand	\$0					
	Commodity	<u>\$149,500</u>	2.09%				
	Total	\$149,500					
Total All PBR Factors					Total Actual Gas Supply Costs		
	Demand	\$2,456,592					
	Commodity	<u>\$4,688,725</u>					
TPBRR		<u><u>\$7,145,317</u></u>	<u><u>34.38%</u></u>	<u><u>65.62%</u></u>	TAGSC	<u><u>\$114,689,853</u></u>	6.23%