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COMMISSION

Louisville Gas and

Electric Company

State Regulation and Rates

220 West Main Street

PO Box 32010

Louisville, Kentucky 40232

www.lge-ku.com

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

December 28, 2018

Derek A. Rahn

Manager Revenue

Requirement

T 502-627-4127

F 502-217-4002

derek.rahn@lge-ku.com

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, 2017 and ending October 31, 2018.

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

Sincerely,

Derek A. Rahn

**Activity Under LG&E's Performance-Based Ratemaking ("PBR") Mechanism
for the PBR Period for the 12 Months Ended October 31, 2018**

Attached is a summary of LG&E's activity and the supporting documentation for the PBR mechanism covering the entirety of PBR Year 21 (November 1, 2017, through October 31, 2018) 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, 2019.

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, 2018, LG&E has achieved the following results:

	<u>PBR-GAIF</u>	<u>PBR-TIF</u>	<u>PBR-OSSIF</u>	<u>Total</u>
<i>Nov. 2017</i>	\$419,557	\$159,432	\$0	\$578,989
<i>Dec.</i>	\$252,222	\$159,432	\$0	\$411,654
<i>Jan. 2018</i>	\$1,111,242	\$159,432	\$381,716	\$1,652,390
<i>Qtr. Subtotal</i>	\$1,783,021	\$478,296	\$381,716	\$2,643,033
<i>Feb.</i>	\$411,142	\$159,432	\$0	\$570,574
<i>Mar.</i>	\$95,290	\$159,432	\$0	\$254,722
<i>Apr.</i>	(\$6,710)	\$166,332	\$0	\$159,622
<i>Qtr. Subtotal</i>	\$499,722	\$485,196	\$0	\$984,918

	<u>PBR-GAIF</u>	<u>PBR-TIF</u>	<u>PBR-OSSIF</u>	<u>Total</u>
May	\$161,223	\$159,432	\$0	\$320,655
Jun.	\$138,894	\$159,432	\$0	\$298,326
Jul.	\$182,920	\$159,432	\$0	\$342,352
<i>Qtr. Subtotal</i>	\$483,037	\$478,296	\$0	\$961,333
Aug.	\$331,489	\$159,432	\$0	\$490,921
Sep.	\$117,033	\$159,432	\$0	\$276,465
Oct.	\$346,478	\$159,432	\$0	\$505,910
<i>Qtr. Subtotal</i>	\$795,000	\$478,296	\$0	\$1,273,296
<i>Total</i>	\$3,560,780	\$1,920,084	\$381,716	\$5,862,580

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 \$3,560,780.

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 \$1,920,084. The portion of savings attributable to Texas Gas under PBR-TIF is \$6,900. The portion of savings attributable to Tennessee under PBR-TIF is \$1,913,184. 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 \$1,920,084.*

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 January 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, 2016. 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 21 were \$5,862,580, and TAGSC was \$124,607,779, which is the sum of \$99,669,947 in AGC and \$24,937,832 in TAAGTC. Therefore, savings as a percentage of TAGSC were 4.70% ($\$5,862,580 / \$124,607,779$). Hence, all of the savings up to \$3,738,233 ($3.0\% \times \$124,607,779$) 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 \$2,124,347 ($\$5,862,580 - \$3,738,233$), is the subject of the 50% sharing tier.

Therefore, the initial tier of the sliding scale is allocated on a 25/75 basis with \$934,558 (25% x \$3,738,233) being allocated to the Company and \$2,803,675 (75% x \$3,738,233) being allocated to customers. The second tier is subject to sharing on a 50/50 basis with \$1,062,174 (50% x \$2,124,347) being allocated to the Company and \$1,062,173 (50% x \$2,124,347) being allocated to customers. Therefore, the total portion of the savings being retained by customers is \$3,865,848 (\$2,803,675 + \$1,062,173); and the total portion of the savings being allocated to the Company and collected from customers is \$1,996,732 (\$934,558 + \$1,062,174). Therefore, the CSPBR to be collected for the Company from customers by means of the PBRRC (as a part of the GSCC) is \$1,996,732.

The total to be collected for the Company from customers through the GSCC is \$1,996,732. 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, \$653,930 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 \$1,342,802 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, 2018**

**PBR-GAIF
SUPPORTING CALCULATIONS**

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

LOUISVILLE GAS AND ELECTRIC COMPANY
GAIF - CALCULATION OF BGC

Column	1	2	3	4	5	6	7	8	9	10	11	12	13	
	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 PEFDCC	APV - PEFDCC= TOTAL APV FOR SYSTEM SUPPLY (6-7)	ALLOCATION OF APV ACCORDING TO SZFQE%					
									TGT ZONE SL 46.07%	TGT ZONE 1 20.39%	TGT ZONE 4 23.66%	TGPL ZONE 0 7.88%	TGPL ZONE 1 0.00%	
									(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	(C. 8 X SZFQE%)	
Nov 17	2,413,470	220,000	0	600,060	320,000	3,553,530	0	3,553,530	1,708,182	724,565	840,765	280,018	0	
Dec 17	1,929,038	919,721	0	210,016	845,000	3,903,775	3,823	3,899,952	1,874,707	795,200	922,729	307,316	0	
Jan 18	2,612,654	420,000	0	620,062	288,518	3,941,232	10,616	3,930,616	1,889,447	801,453	929,984	309,732	0	
Feb 18	749,830	590,000	0	280,028	0	1,619,858	0	1,619,858	778,866	330,289	383,258	127,645	0	
Mar 18	1,064,028	560,000	0	120,012	0	1,744,040	0	1,744,040	838,360	355,810	412,640	137,430	0	
Apr 18	1,393,398	365,000	0	165,000	60,000	1,983,398	0	1,983,398	452,413	194,770	1,002,211	334,004	0	
May 18	810,210	1,507,000	0	60,000	0	2,177,210	0	2,177,210	496,622	213,802	1,100,144	366,642	0	
Jun 18	1,520,040	1,139,886	0	0	0	2,659,926	0	2,659,926	606,729	261,205	1,344,001	447,931	0	
Jul 18	1,083,354	1,848,000	0	620,000	0	3,551,354	0	3,551,354	810,064	348,743	1,794,499	590,048	0	
Aug 18	1,570,739	1,780,625	0	620,000	0	3,980,364	0	3,980,364	907,921	390,872	2,011,276	670,293	0	
Sep 18	1,461,366	1,724,342	0	600,000	0	3,785,708	0	3,785,708	863,520	371,757	1,912,918	637,513	0	
Oct 18	1,788,730	1,725,452	0	320,000	0	3,832,182	0	3,832,182	874,121	378,320	1,936,402	645,336	0	
Total	18,194,857	12,809,026	0	4,215,178	1,513,516	36,732,577	14,439	36,718,138	12,100,752	5,164,586	14,500,889	4,861,911	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 (10X16)	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 (15+17+19+21+23+24)	TOTAL BMGCC
Nov 17	\$2,8063	\$4,793,871	\$2,7857	\$2,018,421	\$2,7604	\$2,320,848	\$2,7700	\$775,650	\$2,9355	\$0	\$0	\$9,908,560
Dec 17	\$2,7651	\$5,239,994	\$2,7704	\$2,203,022	\$2,7703	\$2,556,236	\$2,7403	\$842,138	\$2,8187	\$0	\$12,263	\$10,853,653
Jan 18	\$3,2778	\$6,192,851	\$3,2344	\$2,592,220	\$3,2004	\$2,976,321	\$3,2588	\$1,009,293	\$3,2765	\$0	\$45,887	\$12,816,572
Feb 18	\$2,9175	\$2,271,758	\$2,8964	\$956,649	\$2,8464	\$1,090,906	\$2,8854	\$388,307	\$2,9642	\$0	\$0	\$4,667,620
Mar 18	\$2,5630	\$2,148,717	\$2,5228	\$897,133	\$2,4820	\$1,015,920	\$2,5394	\$348,990	\$2,5933	\$0	\$0	\$4,410,760
Apr 18	\$2,6268	\$1,188,308	\$2,5886	\$504,182	\$2,5302	\$2,535,794	\$2,6184	\$874,556	\$2,6561	\$0	\$0	\$5,102,840
May 18	\$2,6964	\$1,340,109	\$2,6565	\$587,985	\$2,4854	\$2,734,298	\$2,6933	\$987,477	\$2,7422	\$0	\$0	\$5,030,320
Jun 18	\$2,7922	\$1,664,109	\$2,7497	\$718,235	\$2,8449	\$3,554,907	\$2,8132	\$1,260,119	\$2,8422	\$0	\$0	\$7,227,371
Jul 18	\$2,7784	\$2,250,682	\$2,7272	\$951,092	\$2,6729	\$4,796,516	\$2,7527	\$1,646,247	\$2,8070	\$0	\$0	\$9,644,537
Aug 18	\$2,8131	\$2,554,073	\$2,7825	\$1,087,601	\$2,7595	\$5,550,122	\$2,7690	\$1,876,150	\$2,8362	\$0	\$0	\$11,087,946
Sep 18	\$2,8079	\$2,424,878	\$2,7697	\$1,029,655	\$2,7039	\$5,172,339	\$2,8085	\$1,790,455	\$2,8567	\$0	\$0	\$10,417,127
Oct 18	\$3,0478	\$2,664,146	\$2,9947	\$1,128,986	\$2,9488	\$5,706,189	\$3,0486	\$1,666,090	\$3,0915	\$0	\$0	\$11,463,391
Total		\$34,783,568		\$14,653,141		\$40,010,396		\$13,745,472		\$0	\$58,150	\$103,230,727

**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 17	2,413,470	\$6,377,476	220,000	\$622,000	0	\$0	600,060	\$1,566,157	320,000	\$923,400
Dec 17	1,929,038	\$5,276,266	919,721	\$2,507,718	0	\$0	210,016	\$606,797	845,000	\$2,210,650
Jan 18	2,612,654	\$7,180,317	420,000	\$1,661,900	0	\$0	620,062	\$1,624,562	288,516	\$1,238,551
Feb 18	749,830	\$2,016,052	590,000	\$1,501,550	0	\$0	280,028	\$758,876	0	\$0
Mar 18	1,064,028	\$2,652,090	560,000	\$1,363,350	0	\$0	120,012	\$300,030	0	\$0
Apr 18	1,393,398	\$3,552,025	365,000	\$953,975	0	\$0	165,000	\$440,050	60,000	\$163,500
May 18	610,210	\$1,607,781	1,507,000	\$3,699,392	0	\$0	60,000	\$161,925	0	\$0
Jun 18	1,520,040	\$4,117,915	1,139,886	\$2,970,561	0	\$0	0	\$0	0	\$0
Jul 18	1,083,354	\$2,881,312	1,848,000	\$4,932,305	0	\$0	620,000	\$1,648,000	0	\$0
Aug 18	1,570,739	\$4,209,581	1,789,625	\$4,877,676	0	\$0	620,000	\$1,649,200	0	\$0
Sep 18	1,461,366	\$3,997,700	1,724,342	\$4,659,294	0	\$0	600,000	\$1,643,100	0	\$0
Oct 18	1,786,730	\$5,151,284	1,725,452	\$4,964,229	0	\$0	320,000	\$1,001,400	0	\$0
	18,194,857	\$49,019,799	12,809,026	\$34,713,950	0	\$0	4,215,178	\$11,400,097	1,513,516	\$4,536,101

Column	11	12
	TOTAL TRANSPORT GAS (1+3+5+7+9)	TOTAL GAS COMMODITY COSTS (2+4+6+8+10)
Nov 17	3,553,530	\$9,489,033
Dec 17	3,903,775	\$10,601,431
Jan 18	3,941,232	\$11,705,330
Feb 18	1,619,858	\$4,276,478
Mar 18	1,744,040	\$4,315,470
Apr 18	1,983,398	\$5,109,550
May 18	2,177,210	\$5,469,098
Jun 18	2,659,926	\$7,088,476
Jul 18	3,551,354	\$9,461,617
Aug 18	3,980,364	\$10,736,457
Sep 18	3,785,708	\$10,300,094
Oct 18	3,832,182	\$11,116,913
Total	36,732,577	\$99,669,947

**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 17	\$9,908,590	\$9,489,033	\$419,557
Dec 17	\$10,853,653	\$10,601,431	\$252,222
Jan 18	\$12,816,572	\$11,705,330	\$1,111,242
Feb 18	\$4,687,620	\$4,276,478	\$411,142
Mar 18	\$4,410,760	\$4,315,470	\$95,290
Apr 18	\$5,102,840	\$5,109,550	(\$6,710)
May 18	\$5,630,321	\$5,469,098	\$161,223
Jun 18	\$7,227,370	\$7,088,476	\$138,894
Jul 18	\$9,644,537	\$9,461,617	\$182,920
Aug 18	\$11,067,946	\$10,736,457	\$331,489
Sep 18	\$10,417,127	\$10,300,094	\$117,033
Oct 18	\$11,463,391	\$11,116,913	\$346,478
Total	\$103,230,727	\$99,669,947	\$3,560,780

**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 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. 17	\$2.9200	\$2.8790	\$2.6200	\$2.8063
Dec. 17	\$2.7225	\$2.6929	\$2.9700	\$2.7951
Jan. 18	\$3.5440	\$3.6487	\$2.6400	\$3.2776
Feb. 18	\$2.6750	\$2.4976	\$3.5800	\$2.9175
Mar. 18	\$2.5950	\$2.5340	\$2.5600	\$2.5630
Apr. 18	\$2.6640	\$2.6259	\$2.5900	\$2.6266
May 18	\$2.7125	\$2.6658	\$2.7200	\$2.6994
Jun. 18	\$2.8400	\$2.7766	\$2.7600	\$2.7922
Jul. 18	\$2.7600	\$2.6952	\$2.8800	\$2.7784
Aug. 18	\$2.8775	\$2.8418	\$2.7200	\$2.8131
Sep. 18	\$2.8300	\$2.7936	\$2.8000	\$2.8079
Oct. 18	\$3.1300	\$3.0933	\$2.9200	\$3.0478

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

NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE			NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE		
		MONTHLY AVERAGE			MONTHLY AVERAGE
11/06/2017	\$2.7200		05/07/2018	\$2.6200	
11/13/2017	\$3.0800		05/14/2018	\$2.6800	
11/20/2017	\$3.0000		05/21/2018	\$2.7300	
11/27/2017	\$2.8800	\$2.9200	05/28/2018	\$2.8200	\$2.7125
12/04/2017	\$2.8300		06/04/2018	\$2.8200	
12/11/2017	\$2.7700		06/11/2018	\$2.7800	
12/18/2017	\$2.6700		06/18/2018	\$2.8800	
12/25/2017	\$2.6200	\$2.7225	06/25/2018	\$2.8800	\$2.8400
01/01/2018	\$2.9600		07/02/2018	\$2.8600	
01/08/2018	\$4.1500		07/09/2018	\$2.7900	
01/15/2018	\$3.6000		07/16/2018	\$2.7600	
01/22/2018	\$3.6200		07/23/2018	\$2.6900	
01/29/2018	\$3.3900	\$3.5440	07/30/2018	\$2.7000	\$2.7600
02/05/2018	\$3.1100		08/06/2018	\$2.7700	
02/12/2018	\$2.6400		08/13/2018	\$2.8900	
02/19/2018	\$2.4600		08/20/2018	\$2.9400	
02/26/2018	\$2.4900	\$2.6750	08/27/2018	\$2.9100	\$2.8775
03/05/2018	\$2.5400		09/03/2018	\$2.8600	
03/12/2018	\$2.6400		09/10/2018	\$2.8100	
03/19/2018	\$2.6300		09/17/2018	\$2.7500	
03/26/2018	\$2.5700	\$2.5950	09/24/2018	\$2.9000	\$2.8300
04/02/2018	\$2.5800		10/01/2018	\$2.9700	
04/09/2018	\$2.6800		10/08/2018	\$3.1200	
04/16/2018	\$2.6700		10/15/2018	\$3.1700	
04/23/2018	\$2.7200		10/22/2018	\$3.2100	
04/30/2019	\$2.6700	\$2.6640	10/29/2018	\$3.1800	\$3.1300

PBR YEAR NINETEEN PLATTS GAS DAILY MIDPOINT PRICE
LOUISIANA/SOUTHEAST, TX. GAS, ZONE SL

Holiday

Saturday/Sunday

NOVEMBER 2017			DECEMBER 2017			JANUARY 2018			FEBRUARY 2018			MARCH 2018			APRIL 2018		
DAY	MIDPOINT		MIDPOINT			MIDPOINT			DAY	MIDPOINT		MIDPOINT			MIDPOINT		
1	\$ 2.7000		\$ 2.8350			\$ 3.6750			1	\$ -		\$ 2.4500			\$ 2.5800		
2	\$ 2.6100		\$ 2.7450			\$ 3.6750			2	\$ -		\$ 2.4800			\$ 2.5800		
3	\$ 2.6300		\$ 2.7450			\$ 6.8850			3	\$ -		\$ 2.5000			\$ 2.5450		
4	\$ 2.6900		\$ 2.7450			\$ 6.9050			4	\$ -		\$ 2.5000			\$ 2.6100		
5	\$ 2.6900		\$ 2.8300			\$ 4.6150			5	\$ -		\$ 2.5000			\$ 2.6900		
6	\$ 2.6900		\$ 2.8300			\$ 2.8350			6	\$ 2.7000		\$ 2.5400			\$ 2.6550		
7	\$ 2.9500		\$ 2.8500			\$ 2.8350			7	\$ 2.6800		\$ 2.6100			\$ 2.6600		
8	\$ 3.0000		\$ 2.7200			\$ 2.8350			8	\$ 2.6000		\$ 2.6500			\$ 2.6600		
9	\$ 3.0750		\$ 2.7300			\$ 2.7850			9	\$ 2.6500		\$ 2.5750			\$ 2.6600		
10	\$ 3.1000		\$ 2.7300			\$ 2.7950			10	\$ 2.5500		\$ 2.5750			\$ -		
11	\$ 3.0450		\$ 2.7300			\$ 2.9950			11	\$ 2.5500		\$ 2.5750			\$ 2.6400		
12	\$ 3.0450		\$ 2.7150			\$ 3.1500			12	\$ 2.5500		\$ 2.5750			\$ 2.5750		
13	\$ 3.0450		\$ 2.7300			\$ 3.8450			13	\$ 2.4800		\$ -			\$ 2.5450		
14	\$ 3.0150		\$ 2.5900			\$ 3.8450			14	\$ 2.5000		\$ 2.6700			\$ 2.6600		
15	\$ 2.9750		\$ 2.6000			\$ 3.8450			15	\$ 2.3600		\$ 2.5400			\$ 2.6600		
16	\$ 2.9950		\$ 2.5400			\$ 3.8450			16	\$ 2.4400		\$ 2.5500			\$ 2.6600		
17	\$ 2.9400		\$ 2.5400			\$ 4.4550			17	\$ 2.4400		\$ 2.5200			\$ 2.7350		
18	\$ 2.9200		\$ 2.5400			\$ 3.4600			18	\$ 2.4400		\$ 2.5200			\$ 2.7000		
19	\$ 2.9200		\$ -			\$ 3.1300			19	\$ 2.4400		\$ 2.5200			\$ 2.7500		
20	\$ 2.9200		\$ 2.6800			\$ 3.0750			20	\$ 2.4400		\$ 2.5800			\$ -		
21	\$ 2.9550		\$ 2.5700			\$ 3.0750			21	\$ 2.5100		\$ 2.5900			\$ 2.5700		
22	\$ 2.9550		\$ 2.5050			\$ 3.0750			22	\$ 2.5050		\$ 2.6100			\$ 2.5700		
23	\$ 2.8100		\$ 2.5500			\$ -			23	\$ 2.4800		\$ 2.5000			\$ 2.5700		
24	\$ 2.8100		\$ 2.5500			\$ -			24	\$ 2.4200		\$ 2.4700			\$ 2.5850		
25	\$ 2.8100		\$ 2.5500			\$ 3.4500			25	\$ 2.4200		\$ 2.4700			\$ 2.6200		
26	\$ 2.8100		\$ 2.5500			\$ 3.3800			26	\$ 2.4200		\$ 2.4700			\$ 2.6350		
27	\$ 2.8100		\$ -			\$ 3.3500			27	\$ 2.4500		\$ 2.4600			\$ 2.6700		
28	\$ 2.7050		\$ -			\$ 3.3500			28	\$ 2.4200		\$ 2.4750			\$ 2.5800		
29	\$ 2.7950		\$ 2.9000			\$ 3.3500			29			\$ 2.5150			\$ 2.5800		
30	\$ 2.9550		\$ 2.9000			\$ -			30			\$ 2.5150			\$ 2.5800		
31			\$ 2.9000			\$ -			31			\$ 2.5150					
TOTAL	\$ 86.3700		\$ 75.4000			\$ 98.5150			TOTAL	\$ 57.4450		\$ 76.0200			\$ 73.5250		
POSTINGS	30		28			27			POSTINGS	23		30			28		
AVERAGE	\$ 2.8790		\$ 2.6929			\$ 3.6487			AVERAGE	\$ 2.4976		\$ 2.5340			\$ 2.6259		

MAY 2018		JUNE 2018		JULY 2018		AUGUST 2018		SEPTEMBER 2018		OCTOBER 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.5700	\$ 2.7600	\$ 2.7800	1	\$ -	\$ 2.8000	\$ 2.8350				
2	\$ 2.6700	\$ 2.7600	\$ 2.7800	2	\$ 2.7250	\$ 2.8000	\$ 2.9000				
3	\$ -	\$ 2.7600	\$ 2.7600	3	\$ 2.7050	\$ 2.8000	\$ 2.9800				
4	\$ 2.5300	\$ 2.7600	\$ 2.7400	4	\$ 2.7850	\$ 2.8000	\$ 3.1000				
5	\$ 2.5200	\$ 2.7100	\$ 2.7400	5	\$ 2.7850	\$ 2.8300	\$ 3.1050				
6	\$ 2.5200	\$ 2.7000	\$ 2.7150	6	\$ 2.7850	\$ 2.7850	\$ 3.0200				
7	\$ 2.5200	\$ -	\$ -	7	\$ 2.8150	\$ 2.7250	\$ 3.0200				
8	\$ 2.5750	\$ -	\$ -	8	\$ 2.8800	\$ 2.6650	\$ 3.0200				
9	\$ 2.5800	\$ -	\$ -	9	\$ 2.8900	\$ 2.6650	\$ 3.1650				
10	\$ 2.6000	\$ -	\$ 2.7400	10	\$ 2.8950	\$ 2.6650	\$ 3.1800				
11	\$ -	\$ -	\$ 2.7150	11	\$ 2.8500	\$ -	\$ 3.2400				
12	\$ 2.6550	\$ -	\$ -	12	\$ 2.8500	\$ 2.6750	\$ 3.0700				
13	\$ 2.6550	\$ -	\$ 2.7350	13	\$ 2.8500	\$ 2.7250	\$ 3.0550				
14	\$ 2.6550	\$ -	\$ 2.6850	14	\$ 2.8750	\$ 2.7300	\$ 3.0550				
15	\$ 2.6950	\$ 2.8000	\$ 2.6850	15	\$ 2.9400	\$ 2.6800	\$ 3.0550				
16	\$ -	\$ -	\$ 2.6850	16	\$ 2.9100	\$ 2.6800	\$ 3.1500				
17	\$ -	\$ -	\$ 2.6650	17	\$ -	\$ 2.6800	\$ 3.2000				
18	\$ -	\$ -	\$ 2.6700	18	\$ 2.8800	\$ -	\$ 3.2250				
19	\$ -	\$ 2.8900	\$ 2.6450	19	\$ 2.8800	\$ 2.8500	\$ 3.1650				
20	\$ -	\$ 2.7850	\$ 2.6150	20	\$ 2.8800	\$ 2.8700	\$ 3.1100				
21	\$ -	\$ -	\$ -	21	\$ 2.8800	\$ 2.8400	\$ 3.1100				
22	\$ -	\$ 2.8300	\$ -	22	\$ 2.8600	\$ 2.8550	\$ 3.1100				
23	\$ -	\$ 2.7500	\$ -	23	\$ 2.8700	\$ 2.8550	\$ -				
24	\$ 2.8250	\$ 2.7500	\$ 2.6300	24	\$ 2.8500	\$ 2.8550	\$ 3.1700				
25	\$ 2.8300	\$ 2.7500	\$ 2.6350	25	\$ 2.8350	\$ 2.8900	\$ -				
26	\$ 2.8000	\$ 2.7800	\$ 2.6550	26	\$ 2.8350	\$ 2.9200	\$ 3.1900				
27	\$ 2.8000	\$ 2.7800	\$ 2.6750	27	\$ 2.8350	\$ 2.9100	\$ -				
28	\$ 2.8000	\$ 2.8600	\$ 2.6800	28	\$ 2.8550	\$ 2.8900	\$ -				
29	\$ 2.8000	\$ -	\$ 2.6800	29	\$ -	\$ 2.8900	\$ -				
30	\$ -	\$ -	\$ 2.6800	30	\$ 2.8050	\$ 2.8900	\$ 3.0650				
31	\$ 2.7150	\$ -	\$ -	31	\$ 2.7650	\$ -	\$ 3.1300				
TOTAL	\$ 53.3150	\$ 44.4250	\$ 61.9900	TOTAL	\$ 79.5700	\$ 78.2200	\$ 80.4250				
POSTINGS	20	16	23	POSTINGS	28	28	26				
AVERAGE	\$ 2.6658	\$ 2.7766	\$ 2.6952	AVERAGE	\$ 2.8418	\$ 2.7936	\$ 3.0933				

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

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

	NATURAL GAS WEEK 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. 17	\$2.8775	\$2.8795	\$2.6000	\$2.7857
Dec. 17	\$2.6700	\$2.6811	\$2.9600	\$2.7704
Jan. 18	\$3.4660	\$3.6173	\$2.6200	\$3.2344
Feb. 18	\$2.6075	\$2.5516	\$3.5300	\$2.8964
Mar. 18	\$2.5350	\$2.5334	\$2.5000	\$2.5228
Apr. 18	\$2.5980	\$2.6178	\$2.5500	\$2.5886
May 18	\$2.6475	\$2.6519	\$2.6700	\$2.6565
Jun. 18	\$2.7625	\$2.7765	\$2.7100	\$2.7497
Jul. 18	\$2.6940	\$2.6677	\$2.8200	\$2.7272
Aug. 18	\$2.8300	\$2.8376	\$2.6800	\$2.7825
Sep. 18	\$2.7675	\$2.7817	\$2.7600	\$2.7697
Oct. 18	\$3.0520	\$3.0821	\$2.8500	\$2.9947

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

	NATURAL GAS WEEK LOUISIANA NORTH	MONTHLY AVERAGE		NATURAL GAS WEEK LOUISIANA NORTH	MONTHLY AVERAGE
11/06/2017	\$2.6900		05/07/2018	\$2.5600	
11/13/2017	\$3.0400		05/14/2018	\$2.6000	
11/20/2017	\$2.9400		05/21/2018	\$2.6600	
11/27/2017	\$2.8400	\$2.8775	05/28/2018	\$2.7700	\$2.6475
12/04/2017	\$2.7800		06/04/2018	\$2.7300	
12/11/2017	\$2.7400		06/11/2018	\$2.7200	
12/18/2017	\$2.6000		06/18/2018	\$2.8200	
12/25/2017	\$2.5600	\$2.6700	06/25/2018	\$2.7800	\$2.7625
01/01/2018	\$3.0400		07/02/2018	\$2.8100	
01/08/2018	\$4.0100		07/09/2018	\$2.7100	
01/15/2018	\$3.5000		07/16/2018	\$2.6800	
01/22/2018	\$3.4700		07/23/2018	\$2.6200	
01/29/2018	\$3.3100	\$3.4660	07/30/2018	\$2.6500	\$2.6940
02/05/2018	\$2.9600		08/06/2018	\$2.7200	
02/12/2018	\$2.6100		08/13/2018	\$2.8600	
02/19/2018	\$2.4200		08/20/2018	\$2.8900	
02/26/2018	\$2.4400	\$2.6075	08/27/2018	\$2.8500	\$2.8300
03/05/2018	\$2.4700		09/03/2018	\$2.8000	
03/12/2018	\$2.5900		09/10/2018	\$2.7400	
03/19/2018	\$2.5600		09/17/2018	\$2.6900	
03/26/2018	\$2.5200	\$2.5350	09/24/2018	\$2.8400	\$2.7675
04/02/2018	\$2.5200		10/01/2018	\$2.8900	
04/09/2018	\$2.6400		10/08/2018	\$3.0000	
04/16/2018	\$2.6000		10/15/2018	\$3.0800	
04/23/2018	\$2.6300		10/22/2018	\$3.1600	
04/30/2019	\$2.6000	\$2.5980	10/29/2018	\$3.1300	\$3.0520

PBR YEAR NINETEEN PLATTS GAS DAILY MIDPOINT PRICE
LOUISIANA/SOUTHEAST, TX. GAS, ZONE 1

Holiday

Saturday/Sunday

NOVEMBER 2017			DECEMBER 2017			JANUARY 2018			FEBRUARY 2018			MARCH 2018			APRIL 2018		
DAY	MIDPOINT		MIDPOINT		MIDPOINT		DAY	MIDPOINT		MIDPOINT		MIDPOINT					
1	\$	2.6800	\$	2.8250	\$	3.7600	1	\$	3.1000	\$	2.4600	\$	2.5900				
2	\$	2.6150	\$	2.7350	\$	3.7600	2	\$	2.9250	\$	2.4850	\$	2.5900				
3	\$	2.6450	\$	2.7350	\$	7.1150	3	\$	2.7350	\$	2.4900	\$	2.5750				
4	\$	2.6950	\$	2.7350	\$	6.9550	4	\$	2.7350	\$	2.4900	\$	2.6100				
5	\$	2.6950	\$	2.8000	\$	4.7500	5	\$	2.7350	\$	2.4900	\$	2.6800				
6	\$	2.6950	\$	2.8250	\$	2.8550	6	\$	2.6950	\$	2.5400	\$	2.6550				
7	\$	2.9500	\$	2.8350	\$	2.8550	7	\$	2.6700	\$	2.6100	\$	2.6500				
8	\$	2.9900	\$	2.7050	\$	2.8550	8	\$	2.6150	\$	2.6500	\$	2.6500				
9	\$	3.0800	\$	2.6650	\$	2.7450	9	\$	2.6350	\$	2.5700	\$	2.6500				
10	\$	3.1000	\$	2.6650	\$	2.7900	10	\$	2.5350	\$	2.5700	\$	2.6200				
11	\$	3.0450	\$	2.6650	\$	2.9700	11	\$	2.5350	\$	2.5700	\$	2.5950				
12	\$	3.0450	\$	2.7450	\$	3.1400	12	\$	2.5350	\$	2.5700	\$	2.5450				
13	\$	3.0450	\$	2.7000	\$	3.8600	13	\$	2.4700	\$	2.6850	\$	2.5100				
14	\$	3.0100	\$	2.5850	\$	3.8600	14	\$	2.4700	\$	2.6800	\$	2.6400				
15	\$	2.9750	\$	2.5950	\$	3.8600	15	\$	2.3800	\$	2.5650	\$	2.6400				
16	\$	2.9950	\$	2.5350	\$	3.8600	16	\$	2.4150	\$	2.5500	\$	2.6400				
17	\$	2.9350	\$	2.5350	\$	4.5800	17	\$	2.4200	\$	2.5050	\$	2.7250				
18	\$	2.9250	\$	2.5350	\$	3.4750	18	\$	2.4200	\$	2.5050	\$	2.6900				
19	\$	2.9250	\$	2.6300	\$	3.1750	19	\$	2.4200	\$	2.5050	\$	2.7400				
20	\$	2.9250	\$	2.6650	\$	3.0750	20	\$	2.4200	\$	2.5650	\$	2.6250				
21	\$	2.9400	\$	2.5650	\$	3.0750	21	\$	2.5100	\$	2.5850	\$	2.5650				
22	\$	2.9600	\$	2.4850	\$	3.0750	22	\$	2.5150	\$	2.6150	\$	2.5650				
23	\$	2.8150	\$	2.5450	\$	3.0000	23	\$	2.4750	\$	2.5100	\$	2.5650				
24	\$	2.8150	\$	2.5450	\$	3.2850	24	\$	2.4100	\$	2.4550	\$	2.5850				
25	\$	2.8150	\$	2.5450	\$	3.4050	25	\$	2.4100	\$	2.4550	\$	2.6100				
26	\$	2.8150	\$	2.5450	\$	3.3200	26	\$	2.4100	\$	2.4550	\$	2.6300				
27	\$	2.8150	\$	2.6450	\$	3.3450	27	\$	2.4450	\$	2.4650	\$	2.6400				
28	\$	2.7000	\$	2.7050	\$	3.3450	28	\$	2.4050	\$	2.4700	\$	2.5850				
29	\$	2.7850	\$	2.9400	\$	3.3450	29			\$	2.4900	\$	2.5850				
30	\$	2.9550	\$	2.9400	\$	3.3650	30			\$	2.4900	\$	2.5850				
31			\$	2.9400	\$	3.2800	31			\$	2.4900						
TOTAL	\$	86.3850	\$	83.1150	\$	112.1350	TOTAL	\$	71.4450	\$	78.5350	\$	78.5350				
POSTINGS		30		31		31	POSTINGS		28		31		30				
AVERAGE	\$	2.8795	\$	2.6811	\$	3.6173	AVERAGE	\$	2.5516	\$	2.5334	\$	2.6178				

MAY 2018		JUNE 2018		JULY 2018		AUGUST 2018		SEPTEMBER 2018		OCTOBER 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.5450	\$ 2.7500	\$ 2.7600	\$ 2.7300	\$ 2.7950	1	\$ 2.7300	\$ 2.7950	\$ 2.8000		
2	\$ 2.6450	\$ 2.7400	\$ 2.7600	\$ 2.7050	\$ 2.7950	2	\$ 2.7050	\$ 2.7950	\$ 2.8750		
3	\$ 2.6250	\$ 2.7400	\$ 2.7400	\$ 2.6900	\$ 2.7950	3	\$ 2.6900	\$ 2.7950	\$ 2.9450		
4	\$ 2.5300	\$ 2.7400	\$ 2.7200	\$ 2.7600	\$ 2.7950	4	\$ 2.7600	\$ 2.7950	\$ 3.0900		
5	\$ 2.5150	\$ 2.7000	\$ 2.7200	\$ 2.7600	\$ 2.8300	5	\$ 2.7600	\$ 2.8300	\$ 3.0850		
6	\$ 2.5150	\$ 2.6900	\$ 2.6950	\$ 2.7600	\$ 2.7850	6	\$ 2.7600	\$ 2.7850	\$ 2.9700		
7	\$ 2.5150	\$ 2.6850	\$ 2.6450	\$ 2.8100	\$ 2.7250	7	\$ 2.8100	\$ 2.7250	\$ 2.9700		
8	\$ 2.5750	\$ 2.7950	\$ 2.6450	\$ 2.8750	\$ 2.6650	8	\$ 2.8750	\$ 2.6650	\$ 2.9700		
9	\$ 2.5800	\$ 2.7300	\$ 2.6450	\$ 2.8900	\$ 2.6650	9	\$ 2.8900	\$ 2.6650	\$ 3.1450		
10	\$ 2.5900	\$ 2.7300	\$ 2.7200	\$ 2.8900	\$ 2.6650	10	\$ 2.8900	\$ 2.6650	\$ 3.1750		
11	\$ 2.5900	\$ 2.7300	\$ 2.6950	\$ 2.8550	\$ 2.6600	11	\$ 2.8550	\$ 2.6600	\$ 3.2250		
12	\$ 2.6300	\$ 2.7750	\$ 2.7000	\$ 2.8550	\$ 2.6750	12	\$ 2.8550	\$ 2.6750	\$ 3.0550		
13	\$ 2.6300	\$ 2.7500	\$ 2.7150	\$ 2.8550	\$ 2.7250	13	\$ 2.8550	\$ 2.7250	\$ 3.0400		
14	\$ 2.6300	\$ 2.7700	\$ 2.6650	\$ 2.8800	\$ 2.7300	14	\$ 2.8800	\$ 2.7300	\$ 3.0400		
15	\$ 2.6900	\$ 2.7850	\$ 2.6650	\$ 2.9550	\$ 2.6800	15	\$ 2.9550	\$ 2.6800	\$ 3.0400		
16	\$ 2.7250	\$ 2.8650	\$ 2.6650	\$ 2.9200	\$ 2.6800	16	\$ 2.9200	\$ 2.6800	\$ 3.1500		
17	\$ 2.6600	\$ 2.8650	\$ 2.6450	\$ 2.8900	\$ 2.6800	17	\$ 2.8900	\$ 2.6800	\$ 3.1650		
18	\$ 2.6050	\$ 2.8650	\$ 2.6500	\$ 2.8900	\$ 2.8000	18	\$ 2.8900	\$ 2.8000	\$ 3.2200		
19	\$ 2.6350	\$ 2.8750	\$ 2.6250	\$ 2.8900	\$ 2.8550	19	\$ 2.8900	\$ 2.8550	\$ 3.1600		
20	\$ 2.6350	\$ 2.7700	\$ 2.5850	\$ 2.8900	\$ 2.8800	20	\$ 2.8900	\$ 2.8800	\$ 3.1050		
21	\$ 2.6350	\$ 2.7750	\$ 2.6200	\$ 2.8900	\$ 2.8500	21	\$ 2.8900	\$ 2.8500	\$ 3.1050		
22	\$ 2.6650	\$ 2.8300	\$ 2.6200	\$ 2.8700	\$ 2.8400	22	\$ 2.8700	\$ 2.8400	\$ 3.1050		
23	\$ 2.7400	\$ 2.7450	\$ 2.6200	\$ 2.8650	\$ 2.8400	23	\$ 2.8650	\$ 2.8400	\$ 3.1300		
24	\$ 2.8150	\$ 2.7450	\$ 2.6100	\$ 2.8500	\$ 2.8400	24	\$ 2.8500	\$ 2.8400	\$ 3.1650		
25	\$ 2.7950	\$ 2.7450	\$ 2.6150	\$ 2.8350	\$ 2.9000	25	\$ 2.8350	\$ 2.9000	\$ 3.2650		
26	\$ 2.7800	\$ 2.7650	\$ 2.6500	\$ 2.8350	\$ 2.9300	26	\$ 2.8350	\$ 2.9300	\$ 3.1750		
27	\$ 2.7800	\$ 2.7650	\$ 2.6750	\$ 2.8350	\$ 2.9100	27	\$ 2.8350	\$ 2.9100	\$ 3.0700		
28	\$ 2.7800	\$ 2.8350	\$ 2.6600	\$ 2.8550	\$ 2.8200	28	\$ 2.8550	\$ 2.8200	\$ 3.0700		
29	\$ 2.7800	\$ 2.8700	\$ 2.6600	\$ 2.8150	\$ 2.8200	29	\$ 2.8150	\$ 2.8200	\$ 3.0700		
30	\$ 2.6800	\$ 2.8700	\$ 2.6600	\$ 2.8050	\$ 2.8200	30	\$ 2.8050	\$ 2.8200	\$ 3.0500		
31	\$ 2.6950		\$ 2.6500	\$ 2.7600		31	\$ 2.7600		\$ 3.1150		
TOTAL	\$ 82.2100	\$ 83.2950	\$ 82.7000	TOTAL	\$ 87.9650	\$ 83.4500	\$ 95.5450				
POSTINGS	31	30	31	POSTINGS	31	30	31				
AVERAGE	\$ 2.6519	\$ 2.7765	\$ 2.6677	AVERAGE	\$ 2.8376	\$ 2.7817	\$ 3.0821				

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

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

	NATURAL GAS WEEK APPALACHIA LEBANON HUB	PLATTS GAS DAILY AVERAGE APPALACHIA LEBANON HUB	PLATTS INSIDE FERC's GAS MARKET REPORT APPALACHIA, LEBANON HUB	AVERAGE
Nov. 17	\$2.8725	\$2.8587	\$2.5500	\$2.7604
Dec. 17	\$2.6500	\$2.6910	\$2.9700	\$2.7703
Jan. 18	\$3.4900	\$3.4711	\$2.6400	\$3.2004
Feb. 18	\$2.6100	\$2.5393	\$3.3900	\$2.8464
Mar. 18	\$2.4700	\$2.4660	\$2.4500	\$2.4620
Apr. 18	\$2.5720	\$2.5787	\$2.4400	\$2.5302
May 18	\$2.4400	\$2.4663	\$2.5500	\$2.4854
Jun. 18	\$2.6550	\$2.6998	\$2.5800	\$2.6449
Jul. 18	\$2.6420	\$2.6366	\$2.7400	\$2.6729
Aug. 18	\$2.7900	\$2.7984	\$2.6900	\$2.7595
Sep. 18	\$2.6900	\$2.7117	\$2.7100	\$2.7039
Oct. 18	\$2.9980	\$3.0623	\$2.7800	\$2.9468

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

NATURAL GAS WEEK APPALACHIA LEBANON HUB			NATURAL GAS WEEK APPALACHIA LEBANON HUB		
		MONTHLY AVERAGE			MONTHLY AVERAGE
11/06/2017	\$2.7100		05/07/2018	\$2.3500	
11/13/2017	\$3.0600		05/14/2018	\$2.3500	
11/20/2017	\$2.9500		05/21/2018	\$2.4500	
11/27/2017	\$2.7700	\$2.8725	05/28/2018	\$2.6100	\$2.4400
12/04/2017	\$2.7100		06/04/2018	\$2.5900	
12/11/2017	\$2.6600		06/11/2018	\$2.6200	
12/18/2017	\$2.6400		06/18/2018	\$2.7200	
12/25/2017	\$2.5900	\$2.6500	06/25/2018	\$2.6900	\$2.6550
01/01/2018	\$3.0400		07/02/2018	\$2.7600	
01/08/2018	\$4.8100		07/09/2018	\$2.6100	
01/15/2018	\$3.3800		07/16/2018	\$2.6500	
01/22/2018	\$3.1500		07/23/2018	\$2.5800	
01/29/2018	\$3.0700	\$3.4900	07/30/2018	\$2.6100	\$2.6420
02/05/2018	\$2.9500		08/06/2018	\$2.7300	
02/12/2018	\$2.6400		08/13/2018	\$2.8300	
02/19/2018	\$2.4100		08/20/2018	\$2.8600	
02/26/2018	\$2.4400	\$2.6100	08/27/2018	\$2.7400	\$2.7900
03/05/2018	\$2.3900		09/03/2018	\$2.7500	
03/12/2018	\$2.4800		09/10/2018	\$2.6700	
03/19/2018	\$2.5300		09/17/2018	\$2.6200	
03/26/2018	\$2.4800	\$2.4700	09/24/2018	\$2.7200	\$2.6900
04/02/2018	\$2.4400		10/01/2018	\$2.7500	
04/09/2018	\$2.7200		10/08/2018	\$2.7900	
04/16/2018	\$2.5500		10/15/2018	\$3.1300	
04/23/2018	\$2.6500		10/22/2018	\$3.1400	
04/30/2019	\$2.5000	\$2.5720	10/29/2018	\$3.1800	\$2.9980

PBR YEAR NINETEEN PLATTS GAS DAILY MIDPOINT PRICE
 APPALACHIA, LEBANON HUB

NOVEMBER 2017		DECEMBER 2017		JANUARY 2018		FEBRUARY 2018		MARCH 2018		APRIL 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT		
1	\$ 2.6750	\$ 2.7500	\$ 3.7900	1	\$ 3.0450	\$ 2.3700	\$ 2.5700				
2	\$ 2.6250	\$ 2.6800	\$ 3.7900	2	\$ 2.8700	\$ 2.3850	\$ 2.5700				
3	\$ 2.6500	\$ 2.6800	\$ 7.3350	3	\$ 2.7400	\$ 2.4100	\$ 2.5250				
4	\$ 2.6500	\$ 2.6800	\$ 6.4550	4	\$ 2.7400	\$ 2.4100	\$ 2.5800				
5	\$ 2.6500	\$ 2.7900	\$ 4.6350	5	\$ 2.7400	\$ 2.4100	\$ 2.7050				
6	\$ 2.6500	\$ 2.8200	\$ 2.8400	6	\$ 2.6850	\$ 2.4800	\$ 2.7050				
7	\$ 2.9750	\$ 2.8500	\$ 2.8400	7	\$ 2.6800	\$ 2.5500	\$ 2.6800				
8	\$ 2.9850	\$ 2.6850	\$ 2.8400	8	\$ 2.6400	\$ 2.6100	\$ 2.6800				
9	\$ 3.0800	\$ 2.6250	\$ 2.7150	9	\$ 2.6400	\$ 2.5300	\$ 2.6800				
10	\$ 3.1300	\$ 2.6250	\$ 2.7500	10	\$ 2.5100	\$ 2.4650	\$ 2.6100				
11	\$ 3.0150	\$ 2.6250	\$ 2.9150	11	\$ 2.5100	\$ 2.4650	\$ 2.5000				
12	\$ 3.0150	\$ 2.7250	\$ 3.0750	12	\$ 2.5100	\$ 2.4650	\$ 2.4650				
13	\$ 3.0150	\$ 2.7350	\$ 3.6350	13	\$ 2.4350	\$ 2.6350	\$ 2.4100				
14	\$ 3.0100	\$ 2.5950	\$ 3.6350	14	\$ 2.4500	\$ 2.6200	\$ 2.5550				
15	\$ 2.9450	\$ 2.5900	\$ 3.6350	15	\$ 2.3950	\$ 2.5150	\$ 2.5550				
16	\$ 3.0050	\$ 2.5400	\$ 3.6350	16	\$ 2.4150	\$ 2.5300	\$ 2.5550				
17	\$ 2.9450	\$ 2.5400	\$ 4.0800	17	\$ 2.4100	\$ 2.4550	\$ 2.7800				
18	\$ 2.9150	\$ 2.5400	\$ 3.3100	18	\$ 2.4100	\$ 2.4550	\$ 2.7300				
19	\$ 2.9150	\$ 2.6350	\$ 3.0300	19	\$ 2.4100	\$ 2.4550	\$ 2.7650				
20	\$ 2.9150	\$ 2.6700	\$ 2.8900	20	\$ 2.4100	\$ 2.4900	\$ 2.6200				
21	\$ 2.9550	\$ 2.6050	\$ 2.8900	21	\$ 2.5250	\$ 2.5450	\$ 2.5250				
22	\$ 2.9450	\$ 2.5050	\$ 2.8900	22	\$ 2.5400	\$ 2.5750	\$ 2.5250				
23	\$ 2.7550	\$ 2.5850	\$ 2.9000	23	\$ 2.4600	\$ 2.4800	\$ 2.5250				
24	\$ 2.7550	\$ 2.5850	\$ 3.0700	24	\$ 2.3950	\$ 2.4200	\$ 2.5350				
25	\$ 2.7550	\$ 2.5850	\$ 3.2600	25	\$ 2.3950	\$ 2.4200	\$ 2.5700				
26	\$ 2.7550	\$ 2.5850	\$ 3.0950	26	\$ 2.3950	\$ 2.4200	\$ 2.5550				
27	\$ 2.7550	\$ 2.6900	\$ 3.1000	27	\$ 2.3950	\$ 2.3850	\$ 2.5350				
28	\$ 2.6600	\$ 2.7800	\$ 3.1000	28	\$ 2.3500	\$ 2.3850	\$ 2.4500				
29	\$ 2.7600	\$ 3.0400	\$ 3.1000	29		\$ 2.3700	\$ 2.4500				
30	\$ 2.9000	\$ 3.0400	\$ 3.2300	30		\$ 2.3700	\$ 2.4500				
31		\$ 3.0400	\$ 3.1400	31		\$ 2.3700					
TOTAL	\$ 85.7600	\$ 83.4200	\$ 107.6050	TOTAL	\$ 71.1000	\$ 76.4450	\$ 77.3600				
POSTINGS	30	31	31	POSTINGS	28	31	30				
AVERAGE	\$ 2.8587	\$ 2.6910	\$ 3.4711	AVERAGE	\$ 2.5393	\$ 2.4660	\$ 2.5787				

MAY 2018		JUNE 2018		JULY 2018		AUGUST 2018		SEPTEMBER 2018		OCTOBER 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.3650	\$ 2.6800	\$ 2.7450	1	\$ 2.6950	\$ 2.7500	\$ 2.6100				
2	\$ 2.3950	\$ 2.6450	\$ 2.7450	2	\$ 2.7000	\$ 2.7500	\$ 2.7650				
3	\$ 2.3800	\$ 2.6450	\$ 2.7300	3	\$ 2.7050	\$ 2.7500	\$ 2.9200				
4	\$ 2.3800	\$ 2.6450	\$ 2.6950	4	\$ 2.7700	\$ 2.7500	\$ 3.0850				
5	\$ 2.2950	\$ 2.6550	\$ 2.6950	5	\$ 2.7700	\$ 2.8150	\$ 3.0350				
6	\$ 2.2950	\$ 2.6250	\$ 2.6650	6	\$ 2.7700	\$ 2.7700	\$ 2.7450				
7	\$ 2.2950	\$ 2.6400	\$ 2.5900	7	\$ 2.8400	\$ 2.6800	\$ 2.7450				
8	\$ 2.3550	\$ 2.6750	\$ 2.5900	8	\$ 2.8650	\$ 2.6050	\$ 2.7450				
9	\$ 2.3800	\$ 2.6000	\$ 2.5900	9	\$ 2.8800	\$ 2.6050	\$ 3.0500				
10	\$ 2.4000	\$ 2.6000	\$ 2.6850	10	\$ 2.8700	\$ 2.6050	\$ 3.1800				
11	\$ 2.3850	\$ 2.6000	\$ -	11	\$ 2.8150	\$ 2.6350	\$ 3.3000				
12	\$ 2.3300	\$ 2.7000	\$ 2.6850	12	\$ 2.8150	\$ 2.5950	\$ 3.0600				
13	\$ 2.3300	\$ 2.6800	\$ 2.6750	13	\$ 2.8150	\$ 2.6350	\$ 3.0800				
14	\$ 2.3300	\$ 2.6950	\$ 2.6250	14	\$ 2.8650	\$ 2.6850	\$ 3.0800				
15	\$ 2.4800	\$ 2.7500	\$ 2.6250	15	\$ 2.9100	\$ 2.6250	\$ 3.0800				
16	\$ 2.5850	\$ 2.7950	\$ 2.6250	16	\$ 2.8900	\$ 2.6250	\$ 3.1400				
17	\$ 2.4950	\$ 2.7950	\$ 2.6100	17	\$ 2.8600	\$ 2.6250	\$ 3.2150				
18	\$ 2.3950	\$ 2.7950	\$ 2.6700	18	\$ 2.8450	\$ 2.7900	\$ 3.2000				
19	\$ 2.4400	\$ 2.7900	\$ 2.6400	19	\$ 2.8450	\$ 2.8200	\$ 3.1200				
20	\$ 2.4400	\$ 2.7000	\$ 2.5500	20	\$ 2.8450	\$ 2.8000	\$ 3.1400				
21	\$ 2.4400	\$ 2.7400	\$ 2.5600	21	\$ 2.8700	\$ 2.7700	\$ 3.1400				
22	\$ 2.5650	\$ 2.7600	\$ 2.5600	22	\$ 2.8550	\$ 2.6900	\$ 3.1400				
23	\$ 2.6500	\$ 2.6550	\$ 2.5600	23	\$ 2.8200	\$ 2.6900	\$ 3.1800				
24	\$ 2.7400	\$ 2.6550	\$ 2.6000	24	\$ 2.8000	\$ 2.6900	\$ 3.1900				
25	\$ 2.6900	\$ 2.6550	\$ -	25	\$ 2.6800	\$ 2.8000	\$ 3.2800				
26	\$ 2.6200	\$ 2.6950	\$ 2.6250	26	\$ 2.6800	\$ 2.8450	\$ 3.2050				
27	\$ 2.6200	\$ 2.7000	\$ 2.6300	27	\$ 2.6800	\$ 2.8350	\$ 3.0950				
28	\$ 2.6200	\$ 2.7650	\$ 2.6150	28	\$ 2.8150	\$ 2.7050	\$ 3.0950				
29	\$ 2.6200	\$ 2.8300	\$ 2.6150	29	\$ 2.7700	\$ 2.7050	\$ 3.0950				
30	\$ 2.5700	\$ 2.8300	\$ 2.6150	30	\$ 2.7150	\$ 2.7050	\$ 3.0850				
31	\$ 2.5700		\$ 2.6450	31	\$ 2.6950		\$ 3.1300				
TOTAL	\$ 76.4550	\$ 80.9950	\$ 76.4600	TOTAL	\$ 86.7500	\$ 81.3500	\$ 94.9300				
POSTINGS	31	30	29	POSTINGS	31	30	31				
AVERAGE	\$ 2.4663	\$ 2.6998	\$ 2.6366	AVERAGE	\$ 2.7984	\$ 2.7117	\$ 3.0623				

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

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

	NATURAL GAS WEEK 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. 17	\$2.8675	\$2.8325	\$2.6100	\$2.7700
Dec. 17	\$2.6550	\$2.6460	\$2.9200	\$2.7403
Jan. 18	\$3.6220	\$3.5337	\$2.6200	\$3.2586
Feb. 18	\$2.6025	\$2.5436	\$3.5100	\$2.8854
Mar. 18	\$2.5700	\$2.5481	\$2.5000	\$2.5394
Apr. 18	\$2.6480	\$2.6372	\$2.5700	\$2.6184
May 18	\$2.7300	\$2.6498	\$2.7000	\$2.6933
Jun. 18	\$2.9075	\$2.7720	\$2.7600	\$2.8132
Jul. 18	\$2.7700	\$2.6581	\$2.8300	\$2.7527
Aug. 18	\$2.9100	\$2.8269	\$2.6600	\$2.7990
Sep. 18	\$2.8550	\$2.8005	\$2.7700	\$2.8085
Oct. 18	\$3.1560	\$3.0837	\$2.9000	\$3.0466

CALCULATION OF AVERAGE NATURAL GAS WEEK PRICE BY MONTH
FOR GULF COAST ONSHORE - TEXAS

NATURAL GAS WEEK TEXAS, CENTRAL, ONSHORE			MONTHLY AVERAGE	NATURAL GAS WEEK TEXAS, CENTRAL, ONSHORE			MONTHLY AVERAGE
11/06/2017	\$2.7100			05/07/2018	\$2.6100		
11/13/2017	\$3.0100			05/14/2018	\$2.6700		
11/20/2017	\$2.9400			05/21/2018	\$2.7600		
11/27/2017	\$2.8100	\$2.8675		05/28/2018	\$2.8800	\$2.7300	
12/04/2017	\$2.7700			06/04/2018	\$2.9100		
12/11/2017	\$2.7200			06/11/2018	\$2.8800		
12/18/2017	\$2.5600			06/18/2018	\$2.9000		
12/25/2017	\$2.5700	\$2.6550		06/25/2018	\$2.9400	\$2.9075	
01/01/2018	\$3.1500			07/02/2018	\$2.9000		
01/08/2018	\$4.0900			07/09/2018	\$2.7500		
01/15/2018	\$3.5500			07/16/2018	\$2.7300		
01/22/2018	\$4.0100			07/23/2018	\$2.7400		
01/29/2018	\$3.3100	\$3.6220		07/30/2018	\$2.7300	\$2.7700	
02/05/2018	\$2.8700			08/06/2018	\$2.7900		
02/12/2018	\$2.6100			08/13/2018	\$2.9100		
02/19/2018	\$2.4500			08/20/2018	\$2.9600		
02/26/2018	\$2.4800	\$2.6025		08/27/2018	\$2.9800	\$2.9100	
03/05/2018	\$2.5000			09/03/2018	\$2.9100		
03/12/2018	\$2.6100			09/10/2018	\$2.8200		
03/19/2018	\$2.6200			09/17/2018	\$2.7800		
03/26/2018	\$2.5500	\$2.5700		09/24/2018	\$2.9100	\$2.8550	
04/02/2018	\$2.5300			10/01/2018	\$2.9800		
04/09/2018	\$2.6800			10/08/2018	\$3.1000		
04/16/2018	\$2.6400			10/15/2018	\$3.2000		
04/23/2018	\$2.6900			10/22/2018	\$3.2600		
04/30/2019	\$2.7000	\$2.6480		10/29/2018	\$3.2400	\$3.1560	

PBR YEAR NINETEEN PLATTS GAS DAILY MIDPOINT PRICE
 EAST TEXAS, TENNESSEE, ZONE 0

NOVEMBER 2017		DECEMBER 2017		JANUARY 2018		FEBRUARY 2018		MARCH 2018		APRIL 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT
1	\$ 2.6450	\$ 2.7950	\$ 3.4700	\$ 3.0100	\$ 2.5200	\$ 2.5850					
2	\$ 2.6450	\$ 2.7350	\$ 3.4700	\$ 2.8150	\$ 2.5450	\$ 2.5850					
3	\$ 2.6750	\$ 2.7350	\$ 6.5650	\$ 2.7150	\$ 2.5500	\$ 2.5500					
4	\$ 2.6750	\$ 2.7350	\$ 6.4600	\$ 2.7150	\$ 2.5500	\$ 2.5950					
5	\$ 2.6750	\$ 2.7850	\$ 4.2200	\$ 2.7150	\$ 2.5500	\$ 2.6600					
6	\$ 2.6750	\$ 2.7600	\$ 2.7700	\$ 2.6250	\$ 2.5550	\$ 2.6100					
7	\$ 2.8200	\$ 2.7550	\$ 2.7700	\$ 2.6300	\$ 2.6100	\$ 2.6550					
8	\$ 2.9200	\$ 2.6550	\$ 2.7700	\$ 2.6150	\$ 2.6450	\$ 2.6550					
9	\$ 2.9650	\$ 2.6550	\$ 2.7250	\$ 2.6200	\$ 2.6300	\$ 2.6550					
10	\$ 3.0200	\$ 2.6550	\$ 2.7600	\$ 2.4650	\$ 2.5900	\$ 2.6150					
11	\$ 2.9750	\$ 2.6550	\$ 2.9400	\$ 2.4650	\$ 2.5900	\$ 2.6000					
12	\$ 2.9750	\$ 2.6750	\$ 3.0900	\$ 2.4650	\$ 2.5900	\$ 2.5850					
13	\$ 2.9750	\$ 2.6250	\$ 3.7150	\$ 2.4400	\$ 2.6650	\$ 2.5550					
14	\$ 2.9500	\$ 2.5500	\$ 3.7150	\$ 2.4900	\$ 2.6350	\$ 2.6650					
15	\$ 2.9050	\$ 2.5650	\$ 3.7150	\$ 2.4450	\$ 2.5850	\$ 2.6650					
16	\$ 2.9400	\$ 2.5050	\$ 3.7150	\$ 2.4600	\$ 2.5650	\$ 2.6650					
17	\$ 2.8700	\$ 2.5050	\$ 4.6000	\$ 2.4400	\$ 2.5350	\$ 2.7150					
18	\$ 2.8500	\$ 2.5050	\$ 3.8650	\$ 2.4400	\$ 2.5350	\$ 2.7000					
19	\$ 2.8500	\$ 2.6250	\$ 3.1700	\$ 2.4400	\$ 2.5350	\$ 2.7500					
20	\$ 2.8500	\$ 2.6300	\$ 3.1000	\$ 2.4400	\$ 2.5400	\$ 2.6400					
21	\$ 2.8650	\$ 2.4900	\$ 3.1000	\$ 2.5050	\$ 2.5750	\$ 2.6150					
22	\$ 2.9000	\$ 2.4750	\$ 3.1000	\$ 2.5400	\$ 2.5650	\$ 2.6150					
23	\$ 2.8050	\$ 2.5000	\$ 3.0350	\$ 2.4850	\$ 2.5200	\$ 2.6150					
24	\$ 2.8050	\$ 2.5000	\$ 3.2850	\$ 2.4300	\$ 2.4650	\$ 2.6400					
25	\$ 2.8050	\$ 2.5000	\$ 3.4200	\$ 2.4300	\$ 2.4650	\$ 2.6800					
26	\$ 2.8050	\$ 2.5000	\$ 3.3700	\$ 2.4300	\$ 2.4650	\$ 2.6800					
27	\$ 2.8050	\$ 2.6100	\$ 3.3050	\$ 2.4750	\$ 2.4500	\$ 2.6750					
28	\$ 2.6500	\$ 2.6600	\$ 3.3050	\$ 2.4750	\$ 2.4950	\$ 2.6300					
29	\$ 2.7850	\$ 2.8950	\$ 3.3050	29	\$ 2.4900	\$ 2.6300					
30	\$ 2.8950	\$ 2.8950	\$ 3.3550	30	\$ 2.4900	\$ 2.6300					
31		\$ 2.8950	\$ 3.3600	31	\$ 2.4900						
TOTAL	\$ 84.9750	\$ 82.0250	\$ 109.5450	TOTAL	\$ 71.2200	\$ 78.9900	\$ 79.1150				
POSTINGS	30	31	31	POSTINGS	28	31	30				
AVERAGE	\$ 2.8325	\$ 2.6460	\$ 3.5337	AVERAGE	\$ 2.5436	\$ 2.5481	\$ 2.6372				

MAY 2018		JUNE 2018		JULY 2018		AUGUST 2018		SEPTEMBER 2018		OCTOBER 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	
1	\$ 2.5750	\$ 2.7950	\$ 2.7750	\$ 2.7250	1	\$ 2.6900	\$ 2.8800	\$ 2.8250			
2	\$ 2.6850	\$ 2.7800	\$ 2.7750	\$ 2.6900	2	\$ 2.6800	\$ 2.8800	\$ 2.9100			
3	\$ 2.6150	\$ 2.7800	\$ 2.7100	\$ 2.6800	3	\$ 2.7550	\$ 2.8800	\$ 3.0000			
4	\$ 2.5600	\$ 2.7800	\$ 2.7500	\$ 2.7550	4	\$ 2.7550	\$ 2.8150	\$ 3.1300			
5	\$ 2.5300	\$ 2.7650	\$ 2.7500	\$ 2.7550	5	\$ 2.7550	\$ 2.8000	\$ 3.0700			
6	\$ 2.5300	\$ 2.7100	\$ 2.7150	\$ 2.7550	6	\$ 2.7900	\$ 2.7350	\$ 2.9850			
7	\$ 2.5300	\$ 2.7150	\$ 2.6600	\$ 2.7900	7	\$ 2.8300	\$ 2.6600	\$ 2.9850			
8	\$ 2.5800	\$ 2.7700	\$ 2.6600	\$ 2.8300	8	\$ 2.8750	\$ 2.6600	\$ 3.1200			
9	\$ 2.5550	\$ 2.7000	\$ 2.6600	\$ 2.8750	9	\$ 2.8650	\$ 2.6600	\$ 3.1750			
10	\$ 2.5700	\$ 2.7000	\$ 2.6700	\$ 2.8650	10	\$ 2.8200	\$ 2.6800	\$ 3.2250			
11	\$ 2.5950	\$ 2.7000	\$ 2.6300	\$ 2.8200	11	\$ 2.8200	\$ 2.7000	\$ 3.0550			
12	\$ 2.5950	\$ 2.7200	\$ 2.6600	\$ 2.8200	12	\$ 2.8200	\$ 2.7400	\$ 3.0200			
13	\$ 2.5950	\$ 2.7300	\$ 2.6650	\$ 2.8550	13	\$ 2.8550	\$ 2.7400	\$ 3.0200			
14	\$ 2.5950	\$ 2.7600	\$ 2.6300	\$ 2.9000	14	\$ 2.9000	\$ 2.6500	\$ 3.0200			
15	\$ 2.6650	\$ 2.7550	\$ 2.6300	\$ 2.8850	15	\$ 2.8850	\$ 2.6500	\$ 3.1550			
16	\$ 2.6900	\$ 2.8350	\$ 2.6300	\$ 2.8600	16	\$ 2.8600	\$ 2.6500	\$ 3.1950			
17	\$ 2.6750	\$ 2.8350	\$ 2.6600	\$ 2.8750	17	\$ 2.8750	\$ 2.7700	\$ 3.2350			
18	\$ 2.6150	\$ 2.8350	\$ 2.6350	\$ 2.8750	18	\$ 2.8750	\$ 2.8250	\$ 3.1700			
19	\$ 2.6500	\$ 2.8600	\$ 2.6150	\$ 2.8750	19	\$ 2.8750	\$ 2.8850	\$ 3.0950			
20	\$ 2.6500	\$ 2.7700	\$ 2.5900	\$ 2.8750	20	\$ 2.8750	\$ 2.8300	\$ 3.0950			
21	\$ 2.6500	\$ 2.7650	\$ 2.6200	\$ 2.8950	21	\$ 2.8950	\$ 2.8650	\$ 3.0950			
22	\$ 2.6600	\$ 2.7950	\$ 2.6200	\$ 2.8650	22	\$ 2.8650	\$ 2.8650	\$ 3.1000			
23	\$ 2.7300	\$ 2.7550	\$ 2.6200	\$ 2.8500	23	\$ 2.8500	\$ 2.9250	\$ 3.1850			
24	\$ 2.8050	\$ 2.7550	\$ 2.5950	\$ 2.8500	24	\$ 2.8500	\$ 2.9250	\$ 3.2350			
25	\$ 2.7800	\$ 2.7550	\$ 2.5950	\$ 2.8500	25	\$ 2.8500	\$ 2.9150	\$ 3.1550			
26	\$ 2.7700	\$ 2.7550	\$ 2.6350	\$ 2.8500	26	\$ 2.8500	\$ 2.8950	\$ 3.0750			
27	\$ 2.7700	\$ 2.7800	\$ 2.6600	\$ 2.8750	27	\$ 2.8750	\$ 2.8950	\$ 3.0750			
28	\$ 2.7700	\$ 2.8450	\$ 2.6450	\$ 2.8300	28	\$ 2.8300	\$ 2.8950	\$ 3.0750			
29	\$ 2.7700	\$ 2.8300	\$ 2.6450	\$ 2.8000	29	\$ 2.8000	\$ 2.8950	\$ 3.0350			
30	\$ 2.6800	\$ 2.8300	\$ 2.6450	\$ 2.7900	30	\$ 2.7900		\$ 3.0950			
31	\$ 2.7050		\$ 2.6500		31						
TOTAL	\$ 82.1450	\$ 83.1600	\$ 82.4000	TOTAL	\$ 87.6350	\$ 84.0150	\$ 95.5950				
POSTINGS	31	30	31	POSTINGS	31	30	31				
AVERAGE	\$ 2.6498	\$ 2.7720	\$ 2.6581	AVERAGE	\$ 2.8269	\$ 2.8005	\$ 3.0837				

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

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

	NATURAL GAS WEEK 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. 17	\$2.9200	\$2.9265	\$2.6600	\$2.8355
Dec. 17	\$2.7225	\$2.7237	\$3.0100	\$2.8187
Jan. 18	\$3.5440	\$3.6155	\$2.6700	\$3.2765
Feb. 18	\$2.6750	\$2.6275	\$3.5900	\$2.9642
Mar. 18	\$2.5950	\$2.6148	\$2.5700	\$2.5933
Apr. 18	\$2.6640	\$2.6843	\$2.6200	\$2.6561
May 18	\$2.7125	\$2.7542	\$2.7600	\$2.7422
Jun. 18	\$2.8400	\$2.8765	\$2.8100	\$2.8422
Jul. 18	\$2.7600	\$2.7410	\$2.9200	\$2.8070
Aug. 18	\$2.8775	\$2.8811	\$2.7500	\$2.8362
Sep. 18	\$2.8300	\$2.9100	\$2.8300	\$2.8567
Oct. 18	\$3.1300	\$3.1845	\$2.9600	\$3.0915

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

NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE	NATURAL GAS WEEK LOUISIANA, GULF COAST, ONSHORE			MONTHLY AVERAGE
11/06/2017	\$2.7200			05/07/2018	\$2.6200		
11/13/2017	\$3.0800			05/14/2018	\$2.6800		
11/20/2017	\$3.0000			05/21/2018	\$2.7300		
11/27/2017	\$2.8800	\$2.9200		05/28/2018	\$2.8200	\$2.7125	
12/04/2017	\$2.8300			06/04/2018	\$2.8200		
12/11/2017	\$2.7700			06/11/2018	\$2.7800		
12/18/2017	\$2.6700			06/18/2018	\$2.8800		
12/25/2017	\$2.6200	\$2.7225		06/25/2018	\$2.8800	\$2.8400	
01/01/2018	\$2.9600			07/02/2018	\$2.8600		
01/08/2018	\$4.1500			07/09/2018	\$2.7900		
01/15/2018	\$3.6000			07/16/2018	\$2.7600		
01/22/2018	\$3.6200			07/23/2018	\$2.6900		
01/29/2018	\$3.3900	\$3.5440		07/30/2018	\$2.7000	\$2.7600	
02/05/2018	\$3.1100			08/06/2018	\$2.7700		
02/12/2018	\$2.6400			08/13/2018	\$2.8900		
02/19/2018	\$2.4600			08/20/2018	\$2.9400		
02/26/2018	\$2.4900	\$2.6750		08/27/2018	\$2.9100	\$2.8775	
03/05/2018	\$2.5400			09/03/2018	\$2.8600		
03/12/2018	\$2.6400			09/10/2018	\$2.8100		
03/19/2018	\$2.6300			09/17/2018	\$2.7500		
03/26/2018	\$2.5700	\$2.5950		09/24/2018	\$2.9000	\$2.8300	
04/02/2018	\$2.5800			10/01/2018	\$2.9700		
04/09/2018	\$2.6800			10/08/2018	\$3.1200		
04/16/2018	\$2.6700			10/15/2018	\$3.1700		
04/23/2018	\$2.7200			10/22/2018	\$3.2100		
04/30/2019	\$2.6700	\$2.6640		10/29/2018	\$3.1800	\$3.1300	

PBR YEAR NINETEEN PLATTS GAS DAILY MIDPOINT PRICE
 LOUISIANA/SOUTHEAST, TENNESSEE, 500 LEG

NOVEMBER 2017			DECEMBER 2017			JANUARY 2018			FEBRUARY 2018			MARCH 2018			APRIL 2018		
DAY	MIDPOINT		MIDPOINT		MIDPOINT	DAY	MIDPOINT		MIDPOINT		MIDPOINT		MIDPOINT		MIDPOINT		
1	\$ 2.7250		\$ 2.9100		\$ 3.3850	1	\$ 3.2100		\$ 2.5950		\$ 2.6550		\$ 2.6550		\$ 2.6550		
2	\$ 2.6400		\$ 2.8200		\$ 3.3850	2	\$ 2.9650		\$ 2.5950		\$ 2.6550		\$ 2.6100		\$ 2.6550		
3	\$ 2.7100		\$ 2.8200		\$ 6.5850	3	\$ 2.8800		\$ 2.6050		\$ 2.6550		\$ 2.6550		\$ 2.7150		
4	\$ 2.7400		\$ 2.8200		\$ 6.8350	4	\$ 2.8800		\$ 2.6050		\$ 2.6700		\$ 2.6850		\$ 2.6850		
5	\$ 2.7400		\$ 2.8500		\$ 4.3200	5	\$ 2.8800		\$ 2.6050		\$ 2.6850		\$ 2.6850		\$ 2.6700		
6	\$ 2.7400		\$ 2.8250		\$ 2.8700	6	\$ 2.7400		\$ 2.6300		\$ 2.6850		\$ 2.6850		\$ 2.6200		
7	\$ 2.9650		\$ 2.8750		\$ 2.8700	7	\$ 2.7300		\$ 2.6750		\$ 2.6500		\$ 2.6500		\$ 2.7150		
8	\$ 2.9950		\$ 2.7600		\$ 2.8700	8	\$ 2.7250		\$ 2.7000		\$ 2.6500		\$ 2.6500		\$ 2.7150		
9	\$ 3.0800		\$ 2.7200		\$ 2.8400	9	\$ 2.6900		\$ 2.6650		\$ 2.6500		\$ 2.6500		\$ 2.7150		
10	\$ 3.1250		\$ 2.7200		\$ 2.8600	10	\$ 2.5650		\$ 2.6500		\$ 2.6200		\$ 2.6600		\$ 2.7050		
11	\$ 3.1050		\$ 2.7200		\$ 3.0250	11	\$ 2.5650		\$ 2.6500		\$ 2.6600		\$ 2.6600		\$ 2.6700		
12	\$ 3.1050		\$ 2.7650		\$ 3.1500	12	\$ 2.5650		\$ 2.6500		\$ 2.6700		\$ 2.6600		\$ 2.6700		
13	\$ 3.1050		\$ 2.7500		\$ 3.7450	13	\$ 2.5450		\$ 2.7400		\$ 2.6850		\$ 2.6600		\$ 2.6700		
14	\$ 3.0800		\$ 2.6300		\$ 3.7450	14	\$ 2.5450		\$ 2.7450		\$ 2.6850		\$ 2.6600		\$ 2.6700		
15	\$ 3.0200		\$ 2.6350		\$ 3.7450	15	\$ 2.4750		\$ 2.6400		\$ 2.6850		\$ 2.6600		\$ 2.6700		
16	\$ 3.0500		\$ 2.5950		\$ 3.7450	16	\$ 2.4850		\$ 2.6200		\$ 2.6850		\$ 2.6600		\$ 2.6700		
17	\$ 2.9900		\$ 2.5950		\$ 4.6700	17	\$ 2.4750		\$ 2.5600		\$ 2.6850		\$ 2.6600		\$ 2.6700		
18	\$ 2.9900		\$ 2.5950		\$ 3.5350	18	\$ 2.4750		\$ 2.5600		\$ 2.6850		\$ 2.6600		\$ 2.6700		
19	\$ 2.9900		\$ 2.6900		\$ 3.2900	19	\$ 2.4750		\$ 2.5600		\$ 2.6850		\$ 2.6600		\$ 2.6700		
20	\$ 2.9900		\$ 2.7100		\$ 3.1550	20	\$ 2.4750		\$ 2.6050		\$ 2.6850		\$ 2.6600		\$ 2.6700		
21	\$ 2.9950		\$ 2.5950		\$ 3.1550	21	\$ 2.5450		\$ 2.6500		\$ 2.6850		\$ 2.6600		\$ 2.6700		
22	\$ 2.9750		\$ 2.5300		\$ 3.1550	22	\$ 2.5700		\$ 2.6550		\$ 2.6850		\$ 2.6600		\$ 2.6700		
23	\$ 2.8550		\$ 2.5750		\$ 3.0900	23	\$ 2.5350		\$ 2.5850		\$ 2.6850		\$ 2.6600		\$ 2.6700		
24	\$ 2.8550		\$ 2.5750		\$ 3.4050	24	\$ 2.5000		\$ 2.5400		\$ 2.6850		\$ 2.6600		\$ 2.6700		
25	\$ 2.8550		\$ 2.5750		\$ 3.5850	25	\$ 2.5000		\$ 2.5400		\$ 2.6850		\$ 2.6600		\$ 2.6700		
26	\$ 2.8550		\$ 2.5750		\$ 3.4600	26	\$ 2.5000		\$ 2.5400		\$ 2.6850		\$ 2.6600		\$ 2.6700		
27	\$ 2.8550		\$ 2.6650		\$ 3.4800	27	\$ 2.5350		\$ 2.5550		\$ 2.6850		\$ 2.6600		\$ 2.6700		
28	\$ 2.7350		\$ 2.7200		\$ 3.4800	28	\$ 2.5400		\$ 2.5850		\$ 2.6850		\$ 2.6600		\$ 2.6700		
29	\$ 2.8850		\$ 2.9400		\$ 3.4800	29			\$ 2.5850		\$ 2.6850		\$ 2.6600		\$ 2.6700		
30	\$ 3.0450		\$ 2.9400		\$ 3.5850	30			\$ 2.5850		\$ 2.6850		\$ 2.6600		\$ 2.6700		
31			\$ 2.9400		\$ 3.5800	31			\$ 2.5850		\$ 2.6850		\$ 2.6600		\$ 2.6700		
TOTAL	\$ 87.7950		\$ 84.4350		\$ 112.0800	TOTAL	\$ 73.5700		\$ 81.0600		\$ 80.5300		\$ 80.5300		\$ 80.5300		
POSTINGS	30		31		31	POSTINGS	28		31		30		30		30		
AVERAGE	\$ 2.9265		\$ 2.7237		\$ 3.6155	AVERAGE	\$ 2.6275		\$ 2.6148		\$ 2.6843		\$ 2.6843		\$ 2.6843		

MAY 2018		JUNE 2018		JULY 2018		AUGUST 2018		SEPTEMBER 2018		OCTOBER 2018	
DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT	DAY	MIDPOINT	MIDPOINT	MIDPOINT	MIDPOINT		
1	\$ 2.6300	\$ 2.8650	\$ 2.8550	\$ 2.7650	1	\$ 2.8950	\$ 2.9950				
2	\$ 2.7200	\$ 2.8750	\$ 2.8550	\$ 2.7350	2	\$ 2.8950	\$ 3.1150				
3	\$ 2.6900	\$ 2.8750	\$ 2.8100	\$ 2.7350	3	\$ 2.8950	\$ 3.1600				
4	\$ 2.6450	\$ 2.8750	\$ 2.8100	\$ 2.8150	4	\$ 2.8950	\$ 3.2900				
5	\$ 2.6550	\$ 2.8450	\$ 2.8100	\$ 2.8150	5	\$ 2.8950	\$ 3.2650				
6	\$ 2.6550	\$ 2.8050	\$ 2.7700	\$ 2.8150	6	\$ 2.8650	\$ 3.1200				
7	\$ 2.6550	\$ 2.7900	\$ 2.7550	\$ 2.8500	7	\$ 2.8100	\$ 3.1200				
8	\$ 2.6850	\$ 2.8500	\$ 2.7550	\$ 2.9000	8	\$ 2.7900	\$ 3.1200				
9	\$ 2.6750	\$ 2.8050	\$ 2.7550	\$ 2.9250	9	\$ 2.7900	\$ 3.2850				
10	\$ 2.6850	\$ 2.8050	\$ 2.7850	\$ 2.9200	10	\$ 2.7900	\$ 3.3250				
11	\$ 2.7150	\$ 2.8050	\$ 2.7600	\$ 2.9050	11	\$ 2.8150	\$ 3.3100				
12	\$ 2.7550	\$ 2.8650	\$ 2.7650	\$ 2.9050	12	\$ 2.8650	\$ 3.1400				
13	\$ 2.7550	\$ 2.8500	\$ 2.7600	\$ 2.9050	13	\$ 2.8900	\$ 3.0900				
14	\$ 2.7550	\$ 2.8800	\$ 2.7100	\$ 2.9200	14	\$ 2.8650	\$ 3.0900				
15	\$ 2.7750	\$ 2.8650	\$ 2.7100	\$ 2.9650	15	\$ 2.7850	\$ 3.0900				
16	\$ 2.7850	\$ 2.9500	\$ 2.7100	\$ 2.9600	16	\$ 2.7850	\$ 3.2000				
17	\$ 2.7500	\$ 2.9500	\$ 2.7100	\$ 2.9250	17	\$ 2.7850	\$ 3.2300				
18	\$ 2.7250	\$ 2.9500	\$ 2.7300	\$ 2.9250	18	\$ 2.9250	\$ 3.2850				
19	\$ 2.7650	\$ 2.9350	\$ 2.6850	\$ 2.9150	19	\$ 3.0000	\$ 3.2150				
20	\$ 2.7650	\$ 2.8450	\$ 2.6750	\$ 2.9150	20	\$ 3.0200	\$ 3.2050				
21	\$ 2.7650	\$ 2.9000	\$ 2.7050	\$ 2.9250	21	\$ 2.9400	\$ 3.2050				
22	\$ 2.7500	\$ 2.9050	\$ 2.7050	\$ 2.9300	22	\$ 2.9600	\$ 3.2050				
23	\$ 2.8050	\$ 2.8700	\$ 2.7050	\$ 2.9100	23	\$ 2.9600	\$ 3.1950				
24	\$ 2.8650	\$ 2.8700	\$ 2.6650	\$ 2.9050	24	\$ 2.9600	\$ 3.2450				
25	\$ 2.8750	\$ 2.8700	\$ 2.6700	\$ 2.9050	25	\$ 3.0350	\$ 3.3150				
26	\$ 2.8600	\$ 2.8700	\$ 2.7150	\$ 2.9050	26	\$ 3.0750	\$ 3.2400				
27	\$ 2.8600	\$ 2.8700	\$ 2.7200	\$ 2.9050	27	\$ 3.1150	\$ 3.1200				
28	\$ 2.8600	\$ 2.9350	\$ 2.7300	\$ 2.8850	28	\$ 3.0000	\$ 3.1200				
29	\$ 2.8600	\$ 2.9600	\$ 2.7300	\$ 2.8650	29	\$ 3.0000	\$ 3.1200				
30	\$ 2.8050	\$ 2.9600	\$ 2.7300	\$ 2.8550	30	\$ 3.0000	\$ 3.1300				
31	\$ 2.8350		\$ 2.7200	\$ 2.8200	31		\$ 3.1750				
TOTAL	\$ 85.3800	\$ 86.2950	\$ 84.9700	TOTAL	\$ 89.3150	\$ 87.3000	\$ 98.7200				
POSTINGS	31	30	31	POSTINGS	31	30	31				
AVERAGE	\$ 2.7542	\$ 2.8765	\$ 2.7410	AVERAGE	\$ 2.8811	\$ 2.9100	\$ 3.1845				

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

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub
December 2017

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 PEFDCCQ	TOTAL DOLLARS Col. 13 x Col. 14
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
	PLATTS GAS DAILY MIDPOINT TGT-1	FUEL RETENTION	NNS DEMAND	NNS COMMODITY	(Col. 1/(1-Col.2)) + Col. 3 + Col. 4 DAILY DAI TGT-1	PLATTS GAS DAILY MIDPOINT TGT-4	FUEL RETENTION	NNS DEMAND	NNS COMMODITY	(Col. 6/(1-Col.7)) + Col. 8 + Col. 9 DAILY DAI TGT-4	DAILY DAI TGT-1	DAILY DAI TGT-4			
1	\$2.8250	1.32%	\$0.4190	\$0.0627	\$3.3445	\$2.7500	1.32%	\$0.4190	\$0.0627	\$3.2685	\$3.3445	\$3.2685	\$3.3445	0	\$0
2	\$2.7350	1.32%	\$0.4190	\$0.0627	\$3.2533	\$2.6800	1.32%	\$0.4190	\$0.0627	\$3.1975	\$3.2533	\$3.1975	\$3.2533	0	\$0
3	\$2.7350	1.32%	\$0.4190	\$0.0627	\$3.2533	\$2.6800	1.32%	\$0.4190	\$0.0627	\$3.1975	\$3.2533	\$3.1975	\$3.2533	0	\$0
4	\$2.7350	1.32%	\$0.4190	\$0.0627	\$3.2533	\$2.6800	1.32%	\$0.4190	\$0.0627	\$3.1975	\$3.2533	\$3.1975	\$3.2533	0	\$0
5	\$2.8000	1.32%	\$0.4190	\$0.0627	\$3.3192	\$2.7900	1.32%	\$0.4190	\$0.0627	\$3.3090	\$3.3192	\$3.3090	\$3.3192	0	\$0
6	\$2.8250	1.32%	\$0.4190	\$0.0627	\$3.3445	\$2.8200	1.32%	\$0.4190	\$0.0627	\$3.3394	\$3.3445	\$3.3394	\$3.3445	0	\$0
7	\$2.8350	1.32%	\$0.4190	\$0.0627	\$3.3546	\$2.8500	1.32%	\$0.4190	\$0.0627	\$3.3698	\$3.3546	\$3.3698	\$3.3698	0	\$0
8	\$2.7050	1.32%	\$0.4190	\$0.0627	\$3.2229	\$2.6850	1.32%	\$0.4190	\$0.0627	\$3.2026	\$3.2229	\$3.2026	\$3.2229	0	\$0
9	\$2.6650	1.32%	\$0.4190	\$0.0627	\$3.1823	\$2.6250	1.32%	\$0.4190	\$0.0627	\$3.1418	\$3.1823	\$3.1418	\$3.1823	0	\$0
10	\$2.6650	1.32%	\$0.4190	\$0.0627	\$3.1823	\$2.6250	1.32%	\$0.4190	\$0.0627	\$3.1418	\$3.1823	\$3.1418	\$3.1823	0	\$0
11	\$2.6650	1.32%	\$0.4190	\$0.0627	\$3.1823	\$2.6250	1.32%	\$0.4190	\$0.0627	\$3.1418	\$3.1823	\$3.1418	\$3.1823	0	\$0
12	\$2.7450	1.32%	\$0.4190	\$0.0627	\$3.2634	\$2.7250	1.32%	\$0.4190	\$0.0627	\$3.2432	\$3.2634	\$3.2432	\$3.2634	0	\$0
13	\$2.7000	1.32%	\$0.4190	\$0.0627	\$3.2178	\$2.7350	1.32%	\$0.4190	\$0.0627	\$3.2533	\$3.2178	\$3.2533	\$3.2533	0	\$0
14	\$2.5850	1.32%	\$0.4190	\$0.0627	\$3.1013	\$2.5950	1.32%	\$0.4190	\$0.0627	\$3.1114	\$3.1013	\$3.1114	\$3.1114	0	\$0
15	\$2.5950	1.32%	\$0.4190	\$0.0627	\$3.1114	\$2.5900	1.32%	\$0.4190	\$0.0627	\$3.1063	\$3.1114	\$3.1063	\$3.1114	0	\$0
16	\$2.5350	1.32%	\$0.4190	\$0.0627	\$3.0506	\$2.5400	1.32%	\$0.4190	\$0.0627	\$3.0557	\$3.0506	\$3.0557	\$3.0557	0	\$0
17	\$2.5350	1.32%	\$0.4190	\$0.0627	\$3.0506	\$2.5400	1.32%	\$0.4190	\$0.0627	\$3.0557	\$3.0506	\$3.0557	\$3.0557	0	\$0
18	\$2.5350	1.32%	\$0.4190	\$0.0627	\$3.0506	\$2.5400	1.32%	\$0.4190	\$0.0627	\$3.0557	\$3.0506	\$3.0557	\$3.0557	0	\$0
19	\$2.6300	1.32%	\$0.4190	\$0.0627	\$3.1469	\$2.6350	1.32%	\$0.4190	\$0.0627	\$3.1519	\$3.1469	\$3.1519	\$3.1519	0	\$0
20	\$2.6650	1.32%	\$0.4190	\$0.0627	\$3.1823	\$2.6700	1.32%	\$0.4190	\$0.0627	\$3.1874	\$3.1823	\$3.1874	\$3.1874	0	\$0
21	\$2.5650	1.32%	\$0.4190	\$0.0627	\$3.0810	\$2.6050	1.32%	\$0.4190	\$0.0627	\$3.1215	\$3.0810	\$3.1215	\$3.1215	0	\$0
22	\$2.4850	1.32%	\$0.4190	\$0.0627	\$2.9999	\$2.5050	1.32%	\$0.4190	\$0.0627	\$3.0202	\$2.9999	\$3.0202	\$3.0202	0	\$0
23	\$2.5450	1.32%	\$0.4190	\$0.0627	\$3.0607	\$2.5850	1.32%	\$0.4190	\$0.0627	\$3.1013	\$3.0607	\$3.1013	\$3.1013	0	\$0
24	\$2.5450	1.32%	\$0.4190	\$0.0627	\$3.0607	\$2.5850	1.32%	\$0.4190	\$0.0627	\$3.1013	\$3.0607	\$3.1013	\$3.1013	0	\$0
25	\$2.5450	1.32%	\$0.4190	\$0.0627	\$3.0607	\$2.5850	1.32%	\$0.4190	\$0.0627	\$3.1013	\$3.0607	\$3.1013	\$3.1013	0	\$0
26	\$2.5450	1.32%	\$0.4190	\$0.0627	\$3.0607	\$2.5850	1.32%	\$0.4190	\$0.0627	\$3.1013	\$3.0607	\$3.1013	\$3.1013	0	\$0
27	\$2.6450	1.32%	\$0.4190	\$0.0627	\$3.1621	\$2.6900	1.32%	\$0.4190	\$0.0627	\$3.2077	\$3.1621	\$3.2077	\$3.2077	3,823	\$12,263
28	\$2.7050	1.32%	\$0.4190	\$0.0627	\$3.2229	\$2.7800	1.32%	\$0.4190	\$0.0627	\$3.2989	\$3.2229	\$3.2989	\$3.2989	0	\$0
29	\$2.9400	1.32%	\$0.4190	\$0.0627	\$3.4610	\$3.0400	1.32%	\$0.4190	\$0.0627	\$3.5624	\$3.4610	\$3.5624	\$3.5624	0	\$0
30	\$2.9400	1.32%	\$0.4190	\$0.0627	\$3.4610	\$3.0400	1.32%	\$0.4190	\$0.0627	\$3.5624	\$3.4610	\$3.5624	\$3.5624	0	\$0
31	\$2.9400	1.32%	\$0.4190	\$0.0627	\$3.4610	\$3.0400	1.32%	\$0.4190	\$0.0627	\$3.5624	\$3.4610	\$3.5624	\$3.5624	0	\$0
														3,823	\$12,263

Daily DAI Calculation for Texas Gas Zone 1 and Appalachia Lebanon-Hub
January 2018

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 PEFDCQ	TOTAL DOLLARS Col. 13 x Col. 14
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
	PLATTS GAS DAILY MIDPOINT TGT-1	FUEL RETENTION	NNS DEMAND	NNS COMMODITY	(Col. 1/(1-Col.2)) + Col. 3 + Col. 4 DAILY DAI TGT-1	PLATTS GAS DAILY MIDPOINT TGT- ZONE 4	FUEL RETENTION	NNS DEMAND	NNS COMMODITY	(Col. 6/(1-Col.7)) + Col. 8 + Col. 9 DAILY DAI TGT-4	DAILY DAI TGT-1	DAILY DAI TGT-4			
1	\$3.7600	1.32%	\$0.4190	\$0.0627	\$4.2920	\$3.7900	1.32%	\$0.4190	\$0.0627	\$4.3224	\$4.2920	\$4.3224	\$4.3224	4,566	\$19,736
2	\$3.7600	1.32%	\$0.4190	\$0.0627	\$4.2920	\$3.7900	1.32%	\$0.4190	\$0.0627	\$4.3224	\$4.2920	\$4.3224	\$4.3224	6,050	\$26,151
3	\$7.1150	1.32%	\$0.4190	\$0.0627	\$7.6919	\$7.3350	1.32%	\$0.4190	\$0.0627	\$7.9148	\$7.6919	\$7.9148	\$7.9148	0	\$0
4	\$6.9550	1.32%	\$0.4190	\$0.0627	\$7.5297	\$6.4550	1.32%	\$0.4190	\$0.0627	\$7.0230	\$7.5297	\$7.0230	\$7.5297	0	\$0
5	\$4.7500	1.32%	\$0.4190	\$0.0627	\$5.2952	\$4.6350	1.32%	\$0.4190	\$0.0627	\$5.1787	\$5.2952	\$5.1787	\$5.2952	0	\$0
6	\$2.8550	1.32%	\$0.4190	\$0.0627	\$3.3749	\$2.8400	1.32%	\$0.4190	\$0.0627	\$3.3597	\$3.3749	\$3.3597	\$3.3749	0	\$0
7	\$2.8550	1.32%	\$0.4190	\$0.0627	\$3.3749	\$2.8400	1.32%	\$0.4190	\$0.0627	\$3.3597	\$3.3749	\$3.3597	\$3.3749	0	\$0
8	\$2.8550	1.32%	\$0.4190	\$0.0627	\$3.3749	\$2.8400	1.32%	\$0.4190	\$0.0627	\$3.3597	\$3.3749	\$3.3597	\$3.3749	0	\$0
9	\$2.7450	1.32%	\$0.4190	\$0.0627	\$3.2634	\$2.7150	1.32%	\$0.4190	\$0.0627	\$3.2330	\$3.2634	\$3.2330	\$3.2634	0	\$0
10	\$2.7900	1.32%	\$0.4190	\$0.0627	\$3.3090	\$2.7500	1.32%	\$0.4190	\$0.0627	\$3.2685	\$3.3090	\$3.2685	\$3.3090	0	\$0
11	\$2.9700	1.32%	\$0.4190	\$0.0627	\$3.4914	\$2.9150	1.32%	\$0.4190	\$0.0627	\$3.4357	\$3.4914	\$3.4357	\$3.4914	0	\$0
12	\$3.1400	1.32%	\$0.4190	\$0.0627	\$3.6637	\$3.0750	1.32%	\$0.4190	\$0.0627	\$3.5978	\$3.6637	\$3.5978	\$3.6637	0	\$0
13	\$3.8600	1.32%	\$0.4190	\$0.0627	\$4.3933	\$3.6350	1.32%	\$0.4190	\$0.0627	\$4.1653	\$4.3933	\$4.1653	\$4.3933	0	\$0
14	\$3.8600	1.32%	\$0.4190	\$0.0627	\$4.3933	\$3.6350	1.32%	\$0.4190	\$0.0627	\$4.1653	\$4.3933	\$4.1653	\$4.3933	0	\$0
15	\$3.8600	1.32%	\$0.4190	\$0.0627	\$4.3933	\$3.6350	1.32%	\$0.4190	\$0.0627	\$4.1653	\$4.3933	\$4.1653	\$4.3933	0	\$0
16	\$3.8600	1.32%	\$0.4190	\$0.0627	\$4.3933	\$3.6350	1.32%	\$0.4190	\$0.0627	\$4.1653	\$4.3933	\$4.1653	\$4.3933	0	\$0
17	\$4.5800	1.32%	\$0.4190	\$0.0627	\$5.1230	\$4.0800	1.32%	\$0.4190	\$0.0627	\$4.6163	\$5.1230	\$4.6163	\$5.1230	0	\$0
18	\$3.4750	1.32%	\$0.4190	\$0.0627	\$4.0032	\$3.3100	1.32%	\$0.4190	\$0.0627	\$3.8360	\$4.0032	\$3.8360	\$4.0032	0	\$0
19	\$3.1750	1.32%	\$0.4190	\$0.0627	\$3.6992	\$3.0300	1.32%	\$0.4190	\$0.0627	\$3.5522	\$3.6992	\$3.5522	\$3.6992	0	\$0
20	\$3.0750	1.32%	\$0.4190	\$0.0627	\$3.5978	\$2.8900	1.32%	\$0.4190	\$0.0627	\$3.4104	\$3.5978	\$3.4104	\$3.5978	0	\$0
21	\$3.0750	1.32%	\$0.4190	\$0.0627	\$3.5978	\$2.8900	1.32%	\$0.4190	\$0.0627	\$3.4104	\$3.5978	\$3.4104	\$3.5978	0	\$0
22	\$3.0750	1.32%	\$0.4190	\$0.0627	\$3.5978	\$2.8900	1.32%	\$0.4190	\$0.0627	\$3.4104	\$3.5978	\$3.4104	\$3.5978	0	\$0
23	\$3.0000	1.32%	\$0.4190	\$0.0627	\$3.5218	\$2.9000	1.32%	\$0.4190	\$0.0627	\$3.4205	\$3.5218	\$3.4205	\$3.5218	0	\$0
24	\$3.2850	1.32%	\$0.4190	\$0.0627	\$3.8106	\$3.0700	1.32%	\$0.4190	\$0.0627	\$3.5928	\$3.8106	\$3.5928	\$3.8106	0	\$0
25	\$3.4050	1.32%	\$0.4190	\$0.0627	\$3.9322	\$3.2600	1.32%	\$0.4190	\$0.0627	\$3.7853	\$3.9322	\$3.7853	\$3.9322	0	\$0
26	\$3.3200	1.32%	\$0.4190	\$0.0627	\$3.8461	\$3.0950	1.32%	\$0.4190	\$0.0627	\$3.6181	\$3.8461	\$3.6181	\$3.8461	0	\$0
27	\$3.3450	1.32%	\$0.4190	\$0.0627	\$3.8714	\$3.1000	1.32%	\$0.4190	\$0.0627	\$3.6232	\$3.8714	\$3.6232	\$3.8714	0	\$0
28	\$3.3450	1.32%	\$0.4190	\$0.0627	\$3.8714	\$3.1000	1.32%	\$0.4190	\$0.0627	\$3.6232	\$3.8714	\$3.6232	\$3.8714	0	\$0
29	\$3.3450	1.32%	\$0.4190	\$0.0627	\$3.8714	\$3.1000	1.32%	\$0.4190	\$0.0627	\$3.6232	\$3.8714	\$3.6232	\$3.8714	0	\$0
30	\$3.3650	1.32%	\$0.4190	\$0.0627	\$3.8917	\$3.2300	1.32%	\$0.4190	\$0.0627	\$3.7549	\$3.8917	\$3.7549	\$3.8917	0	\$0
31	\$3.2800	1.32%	\$0.4190	\$0.0627	\$3.8056	\$3.1400	1.32%	\$0.4190	\$0.0627	\$3.6637	\$3.8056	\$3.6637	\$3.8056	0	\$0
														10,616	\$45,887

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

LOUISVILLE GAS 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						(SUM OF COL. 1-5)		ALLOCATION PERCENTAGE*		SUMMER SEASON						(SUM OF COL. 8-14)		ALLOCATION PERCENTAGE*	
CONTRACTS	ZONE	NOV. 17	DEC. 17	JAN. 18	FEB. 18	MAR. 18			APR. 18	MAY 18	JUN. 18	JUL. 18	AUG. 18	SEP. 18	OCT. 18					
TGT-NNS-29781	SL	130,734	130,734	130,734	130,734	130,734	653,670	78.21%	56,899	56,899	56,899	56,899	56,899	56,899	56,899	388,293	89.92%			
	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	931,035	100.00%	81,372	81,372	81,372	81,372	81,372	81,372	81,372	569,604	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	69,000	69,000	69,000	69,000	69,000	309,000	100.00%	69,000	69,000	69,000	69,000	69,000	69,000	69,000	420,000	100.00%			
	TOTAL	69,000	69,000	69,000	69,000	69,000	309,000	100.00%	69,000	69,000	69,000	69,000	69,000	69,000	69,000	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		
	WINTER SEASON QUANTITY ENTITLEMENT	WINTER ALLOCATION PERCENT	TEXAS GAS SIZING (C.17 x C.19)	TEXAS GAS SIZING (C.17 x C.19)	TEXAS GAS SIZING (C.17 x C.19)	TENNESSEE SIZING (C.17 x C.19)	TENNESSEE SIZING (C.17 x C.19)	TOTAL	SUMMER SEASON QUANTITY ENTITLEMENT	SUMMER ALLOCATION PERCENT	TEXAS GAS SIZING (C.26 x C.28)	TEXAS GAS SIZING (C.26 x C.28)	TEXAS GAS SIZING (C.26 x C.28)	TENNESSEE SIZING (C.26 x C.28)	TENNESSEE SIZING (C.26 x C.28)	TOTAL				
CONTRACTS		ZONE								ZONE										
TGT-NNS-29781	26,220,000	SL	78.21%	18,409,062					8,292,000	SL	89.92%	5,787,768								
		1	29.79%		7,810,938					1	30.08%		2,494,234							
		4	0.00%			0				4	0.00%			0						
TGT-FT-34951	9,060,000	SL	0.00%	0					12,840,000	SL	0.00%	0								
		1	0.00%			0				1	0.00%		0							
		4	100.00%			9,060,000				4	100.00%			12,840,000						
TGPL-FT-A-111110	3,020,000	0	100.00%				3,020,000		4,280,000	0	100.00%				4,280,000					
		1	0.00%				0			1	0.00%				0					
TOTALS	38,300,000			18,409,062	7,810,938	9,060,000	3,020,000	0	25,412,000			5,787,768	2,494,234	12,840,000	4,280,000	0	25,412,000			
SUPPLY ZONE FIRM QUANTITY ENTITLEMENT PERCENT**			48.07%	20.38%	23.66%	7.88%	0.00%	100.00%			22.81%	9.82%	60.53%	16.84%	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. 28, 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 AND ELECTRIC COMPANY
 CALCULATION OF TOTAL ANNUAL BENCHMARK GAS TRANSPORTATION COSTS ("TABMGTC")
 FOR PBR TRANSPORTATION INDEX FACTOR ("TIF")

COLUMN	1	2	3	4	5	6	7	8	9
CALCULATION OF TEXAS GAS NO-NOTICE SERVICE PORTION OF BMGTC									
CALCULATION OF BASE TARIFF RATES			CALCULATION OF SURCHARGES						
NNS DEMAND CHARGES			NNS COMMODITY CHARGES			ACA			
MONTH	DAYS	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (1x2x3)	COMMODITY CHARGE	CITY-GATE DELIVERIES	TOTAL (\$x8)	ACA CHARGE	TOTAL (\$x9)
NOV. 17	30	\$0.4190	184,900	\$2,324,183	\$0.0614	2,573,504	\$158,013	\$0.0013	\$3,346
DEC. 17	31	\$0.4190	184,900	\$2,401,868	\$0.0614	2,360,050	\$144,982	\$0.0013	\$3,069
JAN. 18	31	\$0.4190	184,900	\$2,401,868	\$0.0614	3,301,224	\$202,895	\$0.0013	\$4,282
FEB. 18	28	\$0.4190	184,900	\$2,180,247	\$0.0614	1,031,278	\$63,320	\$0.0013	\$1,341
MAR. 18	31	\$0.4190	184,900	\$2,401,868	\$0.0614	1,405,503	\$86,298	\$0.0013	\$1,827
APR. 18	30	\$0.4190	97,440	\$1,224,821	\$0.0614	1,147,227	\$70,440	\$0.0013	\$1,491
MAY 18	31	\$0.4190	80,000	\$770,340	\$0.0614	21,708	\$1,333	\$0.0013	\$28
JUN. 18	30	\$0.4190	80,000	\$754,200	\$0.0614	963,628	\$58,187	\$0.0013	\$1,253
JUL. 18	31	\$0.4190	80,000	\$770,340	\$0.0614	950,019	\$58,331	\$0.0013	\$1,235
AUG. 18	31	\$0.4190	80,000	\$770,340	\$0.0614	1,517,797	\$93,193	\$0.0013	\$1,973
SEP. 18	30	\$0.4190	80,000	\$754,200	\$0.0614	1,548,951	\$95,187	\$0.0013	\$2,015
OCT. 18	31	\$0.4190	117,020	\$1,519,873	\$0.0614	1,982,288	\$121,713	\$0.0013	\$2,577
TOTAL	385		1,438,880	\$18,289,852		18,805,083	\$1,154,832		\$24,447

COLUMN	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
CALCULATION OF TEXAS GAS RATE FT PORTION OF BMGTC																			
FT DEMAND CHARGES				CALCULATION OF BASE TARIFF RATES								TOTAL COMM. (14X15) + (16X17) + (18X19) + (20X21)		TOTAL CITY-GATE DELIVERY (15+17+19+21)		CALCULATION OF SURCHARGES			
NNS DEMAND CHARGES				SL COMM. CHARGE			Z1 COMM. CHARGE			Z3 CITY-GATE DELIVERIES			Z4 COMM. CHARGE		Z4 CITY-GATE DELIVERIES		ACA CHARGE		TOTAL (23x24)
MONTH	DAYS	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (10x11x12)	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	(16X17) + (18X19) + (20X21)	(15+17+19+21)	ACA CHARGE	TOTAL			
NOV. 17	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	218,350	\$7,880	218,350	\$0.0013	\$284			
DEC. 17	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	912,823	\$32,862	912,823	\$0.0013	\$1,187			
JAN. 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	418,850	\$15,006	418,850	\$0.0013	\$542			
FEB. 18	28	\$0.1374	80,000	\$230,832	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	585,575	\$21,081	585,575	\$0.0013	\$761			
MAR. 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	555,804	\$20,009	555,804	\$0.0013	\$723			
APR. 18	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	382,287	\$13,042	382,287	\$0.0013	\$471			
MAY 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,495,732	\$53,848	1,495,732	\$0.0013	\$1,945			
JUN. 18	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,131,368	\$40,730	1,131,368	\$0.0013	\$1,471			
JUL. 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,834,171	\$68,030	1,834,171	\$0.0013	\$2,385			
AUG. 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,778,220	\$63,944	1,778,220	\$0.0013	\$2,309			
SEP. 18	30	\$0.1374	80,000	\$247,320	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,711,423	\$61,811	1,711,423	\$0.0013	\$2,225			
OCT. 18	31	\$0.1374	80,000	\$255,564	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	1,712,535	\$61,851	1,712,535	\$0.0013	\$2,228			
TOTAL	385		720,000	\$3,009,080		0		0		0		12,713,148	\$457,872	12,713,148		\$16,529			

COLUMN	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41			
CALCULATION OF TEXAS GAS RATE STF PORTION OF BMGTC																			
STF DEMAND CHARGES				CALCULATION OF BASE TARIFF RATES								TOTAL COMM. (30X31) + (32X33) + (34X35) + (36X37)		TOTAL CITY-GATE DELIVERY (31+33+35+37)		CALCULATION OF SURCHARGES			
NNS DEMAND CHARGES				SL COMM. CHARGE			Z1 COMM. CHARGE			Z3 CITY-GATE DELIVERIES			Z4 COMM. CHARGE		Z4 CITY-GATE DELIVERIES		ACA CHARGE		TOTAL (39x40)
MONTH	DAYS	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (26x27x28)	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	(32X33) + (34X35) + (36X37)	(31+33+35+37)	ACA CHARGE	TOTAL			
NOV. 17	30	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
DEC. 17	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
JAN. 18	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
FEB. 18	28	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
MAR. 18	31	\$0.4252	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
APR. 18	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
MAY 18	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
JUN. 18	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
JUL. 18	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
AUG. 18	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
SEP. 18	30	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
OCT. 18	31	\$0.1847	0	\$0	\$0.0528	0	\$0.0508	0	\$0.0398	0	\$0.0360	0	\$0	0	\$0.0013	\$0			
TOTAL	385		0	\$0		0		0		0		0	\$0	0		\$0			

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

COLUMN	42	43	44	45
		NNS		TOTAL
		CALC. OF DIRECT BILLS		NNS
				BMGTC
MONTH	CASH- OUT	OTHER	TOTAL S&DB (8+42+43)	(4+7+44)
NOV. 17	\$0	\$0	\$3,346	\$2,485,532
DEC. 17	\$0	\$0	\$3,069	\$2,549,897
JAN. 18	\$0	\$0	\$4,252	\$2,608,653
FEB. 18	\$0	\$0	\$1,341	\$2,233,608
MAR. 18	\$0	\$0	\$1,827	\$2,468,791
APR. 18	\$0	\$90	\$1,590	\$1,296,851
MAY 18	\$0	\$0	\$28	\$780,701
JUN. 18	\$0	\$0	\$1,253	\$814,020
JUL. 18	\$0	\$0	\$1,235	\$838,908
AUG. 18	\$0	\$0	\$1,973	\$874,508
SEP. 18	\$0	\$0	\$2,015	\$851,362
OCT. 18	\$0	\$0	\$2,577	\$1,644,263
TOTAL	\$0	\$90	\$24,546	\$18,468,830

COLUMN	46	47	48	49
		FT BACKHAUL		TOTAL FT BACKHAUL
		CALC. OF DIRECT BILLS		BMGTC
MONTH	CASH- OUT	OTHER	TOTAL S&DB (25+46+ 47)	(13+22+ 48)
NOV. 17	\$0	\$0	\$284	\$255,464
DEC. 17	\$0	\$0	\$1,187	\$288,013
JAN. 18	\$0	\$0	\$542	\$271,112
FEB. 18	\$0	\$0	\$781	\$252,074
MAR. 18	\$0	\$0	\$723	\$278,298
APR. 18	\$0	\$0	\$471	\$280,833
MAY 18	\$0	\$0	\$1,945	\$311,355
JUN. 18	\$0	\$0	\$1,471	\$289,521
JUL. 18	\$0	\$0	\$2,385	\$323,079
AUG. 18	\$0	\$0	\$2,309	\$321,817
SEP. 18	\$0	\$0	\$2,225	\$311,156
OCT. 18	\$0	\$0	\$2,228	\$318,441
TOTAL	\$0	\$0	\$18,529	\$3,483,261

COLUMN	50	51	52	53
		STF		TOTAL STF
		CALC. OF DIRECT BILLS		BMGTC
MONTH	CASH- OUT	OTHER	TOTAL S&DB (41+50+ 51)	(29+38+ 52)
NOV. 17	\$0	\$0	\$0	\$0
DEC. 17	\$0	\$0	\$0	\$0
JAN. 18	\$0	\$0	\$0	\$0
FEB. 18	\$0	\$0	\$0	\$0
MAR. 18	\$0	\$0	\$0	\$0
APR. 18	\$0	\$0	\$0	\$0
MAY 18	\$0	\$0	\$0	\$0
JUN. 18	\$0	\$0	\$0	\$0
JUL. 18	\$0	\$0	\$0	\$0
AUG. 18	\$0	\$0	\$0	\$0
SEP. 18	\$0	\$0	\$0	\$0
OCT. 18	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$0	\$0

LOUISVILLE GAS AND 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 BMTGT) (45*49*53)</u>
NOV. 17	\$2,741,016
DEC. 17	\$2,836,310
JAN. 18	\$2,870,785
FEB. 18	\$2,486,582
MAR. 18	\$2,788,087
APR. 18	\$1,557,684
MAY 18	\$1,692,058
JUN. 18	\$1,104,141
JUL. 18	\$1,192,885
AUG. 18	\$1,196,323
SEP. 18	\$1,162,538
OCT. 18	\$1,863,704
TOTAL	\$22,652,091

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

COLUMN	55	56	57	58	59	60	61	62	63	64	65	66	67	
CALCULATION OF TENNESSEE GAS PIPELINE FT-A SERVICE (ZONE 0) PORTION OF BMGTC														
CALCULATION OF BASE TARIFF RATES														
FT-A ZONE 0 DEMAND CHARGES			FT-A ZONE 0 COMMODITY CHARGES			EPCR ADJUSTMENT			ACA			TOTAL S&DB	TOTAL	
MONTH	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (55x56)	COMMODITY CHARGE	CITY-GATE DELIVERIES	TOTAL (58x59)	EPCR CHARGE	TOTAL (59x61)	ACA CHARGE	TOTAL (59x63)	OTHER	(84 + 85)	(82 + 84 + 85)	FT-A ZN-0 BMGTC (57+60+68)
NOV. 17	\$15,5974	20,000	\$311,948	\$0.0188	800,000	\$11,160	\$0.0201	\$12,000	\$0.0013	\$760	\$0	\$12,840	\$335,848	
DEC. 17	\$15,5974	20,000	\$311,948	\$0.0188	209,895	\$3,908	\$0.0201	\$4,221	\$0.0013	\$273	\$0	\$4,494	\$322,348	
JAN. 18	\$15,5974	20,000	\$311,948	\$0.0188	820,000	\$11,532	\$0.0201	\$12,462	\$0.0013	\$806	\$0	\$13,268	\$338,748	
FEB. 18	\$15,5974	20,000	\$311,948	\$0.0188	280,000	\$5,208	\$0.0201	\$5,828	\$0.0013	\$384	\$0	\$5,992	\$323,148	
MAR. 18	\$15,5974	20,000	\$311,948	\$0.0188	120,000	\$2,232	\$0.0201	\$2,412	\$0.0013	\$156	\$0	\$2,568	\$316,748	
APR. 18	\$15,5974	20,000	\$311,948	\$0.0188	164,835	\$3,068	\$0.0233	\$3,841	\$0.0013	\$214	\$0	\$4,055	\$310,069	
MAY 18	\$15,5974	20,000	\$311,948	\$0.0188	50,840	\$1,115	\$0.0233	\$1,398	\$0.0013	\$78	\$0	\$1,474	\$314,537	
JUN. 18	\$15,5974	20,000	\$311,948	\$0.0188	0	\$0	\$0.0233	\$0	\$0.0013	\$0	\$0	\$0	\$311,948	
JUL. 18	\$15,5974	20,000	\$311,948	\$0.0188	818,380	\$11,520	\$0.0233	\$14,432	\$0.0013	\$805	\$0	\$15,237	\$338,705	
AUG. 18	\$15,5974	20,000	\$311,948	\$0.0188	819,380	\$11,520	\$0.0233	\$14,432	\$0.0013	\$805	\$0	\$15,237	\$338,705	
SEP. 18	\$15,5974	20,000	\$311,948	\$0.0188	598,400	\$11,148	\$0.0233	\$13,968	\$0.0013	\$779	\$0	\$14,745	\$337,842	
OCT. 18	\$15,5974	20,000	\$311,948	\$0.0188	319,080	\$5,848	\$0.0233	\$7,448	\$0.0013	\$416	\$0	\$7,864	\$325,758	
TOTAL		240,000	\$3,743,378		4,212,810	\$78,354		\$92,208		\$5,476	\$0	\$97,774	\$3,018,504	

COLUMN	68	69	70	71	72	73	74	75	76	77	78	79	80	
CALCULATION OF TENNESSEE GAS PIPELINE FT-A SERVICE (ZONE 1) PORTION OF BMGTC														
CALCULATION OF BASE TARIFF RATES														
FT-A ZONE 1 DEMAND CHARGES			FT-A ZONE 1 COMMODITY CHARGES			EPCR ADJUSTMENT			ACA			TOTAL S&DB	TOTAL	
MONTH	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (68x69)	COMMODITY CHARGE	CITY-GATE DELIVERIES	TOTAL (71x72)	EPCR CHARGE	TOTAL (72x74)	ACA CHARGE	TOTAL (72x76)	OTHER	(77 + 78)	(70+73+79)	FT-A ZN-1 BMGTC
NOV. 17	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0167	\$0	\$0.0013	\$0	\$0	\$0	\$0	
DEC. 17	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0167	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JAN. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0167	\$0	\$0.0013	\$0	\$0	\$0	\$0	
FEB. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0167	\$0	\$0.0013	\$0	\$0	\$0	\$0	
MAR. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0167	\$0	\$0.0013	\$0	\$0	\$0	\$0	
APR. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0163	\$0	\$0.0013	\$0	\$0	\$0	\$0	
MAY 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0163	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JUN. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0193	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JUL. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0193	\$0	\$0.0013	\$0	\$0	\$0	\$0	
AUG. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0193	\$0	\$0.0013	\$0	\$0	\$0	\$0	
SEP. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0193	\$0	\$0.0013	\$0	\$0	\$0	\$0	
OCT. 18	\$10,8623	0	\$0	\$0.0156	0	\$0	\$0.0193	\$0	\$0.0013	\$0	\$0	\$0	\$0	
TOTAL		0	\$0		0	\$0		\$0		\$0	\$0	\$0	\$0	

COLUMN	81	82	83	84	85	86	87	88	89	90	91	92	93	
CALCULATION OF TENNESSEE GAS PIPELINE FT-A SERVICE (ZONE 2) PORTION OF BMGTC														
CALCULATION OF BASE TARIFF RATES														
FT-A ZONE 2 DEMAND CHARGES			FT-A ZONE 2 COMMODITY CHARGES			EPCR ADJUSTMENT			ACA			TOTAL S&DB	TOTAL	
MONTH	DEMAND CHARGE	CONTRACT DEMAND	TOTAL (81x82)	COMMODITY CHARGE	CITY-GATE DELIVERIES	TOTAL (84x85)	EPCR CHARGE	TOTAL (85x87)	ACA CHARGE	TOTAL (85x89)	OTHER	(90 + 91)	(83+86+92)	FT-A ZN-2 BMGTC
NOV. 17	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0010	\$0	\$0.0013	\$0	\$0	\$0	\$0	
DEC. 17	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0010	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JAN. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0010	\$0	\$0.0013	\$0	\$0	\$0	\$0	
FEB. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0010	\$0	\$0.0013	\$0	\$0	\$0	\$0	
MAR. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0010	\$0	\$0.0013	\$0	\$0	\$0	\$0	
APR. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
MAY 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JUN. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
JUL. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
AUG. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
SEP. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
OCT. 18	\$5,5224	0	\$0	\$0.0021	0	\$0	\$0.0012	\$0	\$0.0013	\$0	\$0	\$0	\$0	
TOTAL		0	\$0		0	\$0		\$0		\$0	\$0	\$0	\$0	

COLUMN	94	95
TOTAL		
MONTH	TOTAL S&DB	BM(TGPL) (87+90+93+94)
NOV. 17	\$858	\$336,608
DEC. 17	\$1,728	\$322,074
JAN. 18	(\$3,038)	\$333,710
FEB. 18	(\$524)	\$322,624
MAR. 18	(\$360)	\$318,388
APR. 18	(\$2,047)	\$317,022
MAY 18	(\$1,248)	\$313,289
JUN. 18	(\$526)	\$311,422
JUL. 18	\$364	\$338,089
AUG. 18	(\$983)	\$337,722
SEP. 18	\$23	\$337,665
OCT. 18	(\$7,744)	\$318,014
TOTAL	(\$13,679)	\$3,905,825

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

COLUMN	96	97	98	99
	SUMMARY OF PIPELINE BENCHMARKS			
	TOTAL BM(TGT) COL. 54	TOTAL BM(TGPL) COL. 55	TOTAL BM(PPL) COL. 56	TABMGTC (96+97+98)
MONTH				
NOV. 17	\$2,741,016	\$336,806	\$0	\$3,077,822
DEC. 17	\$2,039,310	\$322,074	\$0	\$3,161,384
JAN. 18	\$2,876,765	\$333,710	\$0	\$3,210,475
FEB. 18	\$2,488,582	\$322,624	\$0	\$2,808,206
MAR. 18	\$2,768,087	\$318,386	\$0	\$3,082,475
APR. 18	\$1,557,684	\$317,022	\$0	\$1,874,706
MAY 18	\$1,092,056	\$313,289	\$0	\$1,405,345
JUN. 18	\$1,104,141	\$311,422	\$0	\$1,415,563
JUL. 18	\$1,182,885	\$330,089	\$0	\$1,501,974
AUG. 18	\$1,198,323	\$337,722	\$0	\$1,534,045
SEP. 18	\$1,182,538	\$337,865	\$0	\$1,500,403
OCT. 18	\$1,863,704	\$318,014	\$0	\$2,281,718
TOTAL	\$22,952,091	\$3,905,625	\$0	\$26,857,816

*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. 17	\$2,741,016	\$177,174	\$2,918,190
DEC. 17	\$2,839,310	\$162,642	\$3,001,952
JAN. 18	\$2,879,765	\$174,278	\$3,054,043
FEB. 18	\$2,486,582	\$163,192	\$2,649,774
MAR. 18	\$2,766,087	\$156,956	\$2,923,043
APR. 18	\$1,550,784	\$157,590	\$1,708,374
MAY 18	\$1,092,056	\$153,857	\$1,245,913
JUN. 18	\$1,104,141	\$151,990	\$1,256,131
JUL. 18	\$1,162,885	\$179,657	\$1,342,542
AUG. 18	\$1,196,323	\$178,290	\$1,374,613
SEP. 18	\$1,162,538	\$178,433	\$1,340,971
OCT. 18	\$1,963,704	\$158,582	\$2,122,286
TOTAL	\$22,945,191	\$1,992,641	\$24,937,832

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. 17	\$3,077,622	\$2,918,190	\$159,432
DEC. 17	\$3,161,384	\$3,001,952	\$159,432
JAN. 18	\$3,213,475	\$3,054,043	\$159,432
FEB. 18	\$2,809,206	\$2,649,774	\$159,432
MAR. 18	\$3,082,475	\$2,923,043	\$159,432
APR. 18	\$1,874,706	\$1,708,374	\$166,332
MAY 18	\$1,405,345	\$1,245,913	\$159,432
JUN. 18	\$1,415,563	\$1,256,131	\$159,432
JUL. 18	\$1,501,974	\$1,342,542	\$159,432
AUG. 18	\$1,534,045	\$1,374,613	\$159,432
SEP. 18	\$1,500,403	\$1,340,971	\$159,432
OCT. 18	\$2,281,718	\$2,122,286	\$159,432
TOTAL	\$26,857,916	\$24,937,832	\$1,920,084

**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	\$5.5411		\$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	\$5.5627		\$11.6010	\$15.5974	\$15.8730	\$17.4391	\$18.5095	\$23.2175
	L		\$4.9409						
	1	\$8.3633		\$8.0178	\$10.6629	\$15.0961	\$14.8676	\$16.7645	\$20.6094
	2	\$15.5975		\$10.5990	\$5.5230	\$5.1643	\$6.6019	\$9.0720	\$11.7046
	3	\$15.8730		\$8.4000	\$5.5674	\$4.0225	\$6.1673	\$11.1365	\$12.8653
	4	\$20.1475		\$18.5760	\$7.0924	\$10.7672	\$5.2814	\$5.7100	\$8.1481
	5	\$24.0189		\$16.8841	\$7.4388	\$8.9964	\$5.8648	\$5.5026	\$7.1569
	6	\$27.7819		\$19.3894	\$13.3512	\$14.7061	\$10.3942	\$5.4784	\$4.7453

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 \$0.0216.

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	\$0.0041		\$0.0124	\$0.0186	\$0.0228	\$0.2677	\$0.2555	\$0.3039
L		\$0.0021						
1	\$0.0051		\$0.0090	\$0.0156	\$0.0188	\$0.2278	\$0.2322	\$0.2650
2	\$0.0176		\$0.0096	\$0.0021	\$0.0037	\$0.0743	\$0.1187	\$0.1314
3	\$0.0216		\$0.0178	\$0.0035	\$0.0011	\$0.0991	\$0.1367	\$0.1491
4	\$0.0259		\$0.0214	\$0.0096	\$0.0114	\$0.0463	\$0.0651	\$0.1050
5	\$0.0293		\$0.0265	\$0.0109	\$0.0127	\$0.0648	\$0.0642	\$0.0796
6	\$0.0355		\$0.0309	\$0.0152	\$0.0172	\$0.0993	\$0.0542	\$0.0333

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 \$0.0009.

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.

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%

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

- 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.

FUEL AND EPCR

F&LR 1/, 2/, 3/, 4/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	0.42%		1.42%	2.15%	2.64%	3.16%	3.57%	4.25%
	L		0.18%						
	1	0.54%		1.02%	1.80%	2.18%	2.67%	3.24%	3.70%
	2	2.19%		1.09%	0.17%	0.37%	0.75%	1.31%	1.80%
	3	2.64%		2.18%	0.37%	0.06%	1.06%	1.54%	2.07%
	4	3.16%		2.48%	1.08%	1.30%	0.39%	0.63%	1.13%
	5	3.70%		3.24%	1.31%	1.56%	0.63%	0.62%	0.81%
	6	4.43%		3.84%	1.80%	2.07%	1.06%	0.48%	0.21%

EPCR 3/, 4/	RECEIPT ZONE	DELIVERY ZONE							
		0	L	1	2	3	4	5	6
	0	\$0.0034		\$0.0130	\$0.0201	\$0.0250	\$0.0302	\$0.0344	\$0.0412
	L		\$0.0011						
	1	\$0.0046		\$0.0091	\$0.0167	\$0.0204	\$0.0253	\$0.0310	\$0.0356
	2	\$0.0201		\$0.0098	\$0.0010	\$0.0030	\$0.0065	\$0.0120	\$0.0164
	3	\$0.0250		\$0.0204	\$0.0030	\$0.0000	\$0.0096	\$0.0142	\$0.0189
	4	\$0.0302		\$0.0234	\$0.0097	\$0.0118	\$0.0031	\$0.0054	\$0.0102
	5	\$0.0344		\$0.0310	\$0.0120	\$0.0142	\$0.0054	\$0.0053	\$0.0071
	6	\$0.0412		\$0.0356	\$0.0164	\$0.0189	\$0.0095	\$0.0040	\$0.0014

- 1/ Included in the above F&LR is the Losses component of the F&LR equal to 0.01%.
- 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 0.01%.
- 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.

**FERC ACA UNIT CHARGE
EFFECTIVE OCTOBER 1, 2017**

FEDERAL ENERGY REGULATORY COMMISSION
WASHINGTON, D.C. 20426

FY 2016 GAS ANNUAL CHARGES
CORRECTION FOR ANNUAL CHARGES UNIT CHARGE
June 26, 2017

The annual charges unit charge (ACA) to be applied to in fiscal year 2018 for recovery of FY 2017 Current year and 2016 True-Up is **\$0.0013** per Dekatherm (Dth). The new ACA surcharge will become effective October 1, 2017.

The following calculations were used to determine the FY 2017 unit charge:

2017 CURRENT:

Estimated Program Cost \$61,436,000 divided by 47,684,694,955 Dth = 0.0012883798

2016 TRUE-UP:

Debit/Credit Cost (\$1,395,864) divided by 46,556,886,468 Dth = (0.0000299819)

TOTAL UNIT CHARGE = 0.0012583879

If you have any questions, please contact Norman Richardson at (202)502-6219 or e-mail at Norman.Richardson@ferc.gov.

PUBLIC

**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

**PBR-OSSIF
SUPPORTING CALCULATIONS**

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

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. 17	\$0	\$0	\$0	\$0	\$0	\$0	\$0
DEC. 17	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JAN. 18	\$1,908,327	\$1,526,611	\$0	\$0	\$0	\$1,526,611	\$381,716
FEB. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAR. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
APR. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
MAY 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUN. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
JUL. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
AUG. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SEP. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
OCT. 18	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS	\$1,908,327	\$1,526,611	\$0	\$0	\$0	\$1,526,611	\$381,716

**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)

(1)	(2)	(3)	(4)		(5)	(6)	(7)
Total Gas Supply Cost Performance-Based Ratemaking Savings					Benchmarked Gas Costs		PTAGSC
			Demand/Commodity Allocation				(Col. 3 / 6)
			Demand	Commodity			
Gas Acquisition Index Factor					Actual Gas Costs		
GAIF							
	Demand	\$0	0.00%				
	Commodity	<u>\$3,560,780</u>	60.74%				
	Total	\$3,560,780			AGC	\$99,669,947	
Transportation Index Factor					Actual Transportation Costs		
TIF							
	Demand	\$1,920,084	32.75%				
	Commodity	<u>\$0</u>	0.00%				
	Total	\$1,920,084			TAAGTC	\$24,937,832	
Off-System Sales Index Factor							
OSSIF							
	Demand	\$0					
	Commodity	<u>\$381,716</u>	6.51%				
	Total	\$381,716					
Total All PBR Factors					Total Actual Gas Supply Costs		
	Demand	\$1,920,084					
	Commodity	<u>\$3,942,496</u>					
TPBRR		<u>\$5,862,580</u>	<u>32.75%</u>	<u>67.25%</u>	TAGSC	<u>\$124,607,779</u>	4.70%

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	\$3,738,233	25%	75%	\$2,803,675	\$934,558	\$3,738,233
50/50 Company/Customer Sharing in Excess of 3.0% of TAGSC	<u>\$2,124,347</u>	50%	50%	<u>\$1,062,173</u>	<u>\$1,062,174</u>	<u>\$2,124,347</u>
	<u><u>\$5,862,580</u></u>			<u><u>\$3,865,848</u></u>	<u><u>\$1,996,732</u></u>	<u><u>\$5,862,580</u></u>
Portion of Company Savings Attributable to Demand Costs		32.75%			\$653,930	
Portion of Company Savings Attributable to Commodity Costs		<u>67.25%</u>			<u>\$1,342,802</u>	
Total Company Portion of Savings		<u><u>100.00%</u></u>		CSPBR	<u><u>\$1,996,732</u></u>	